

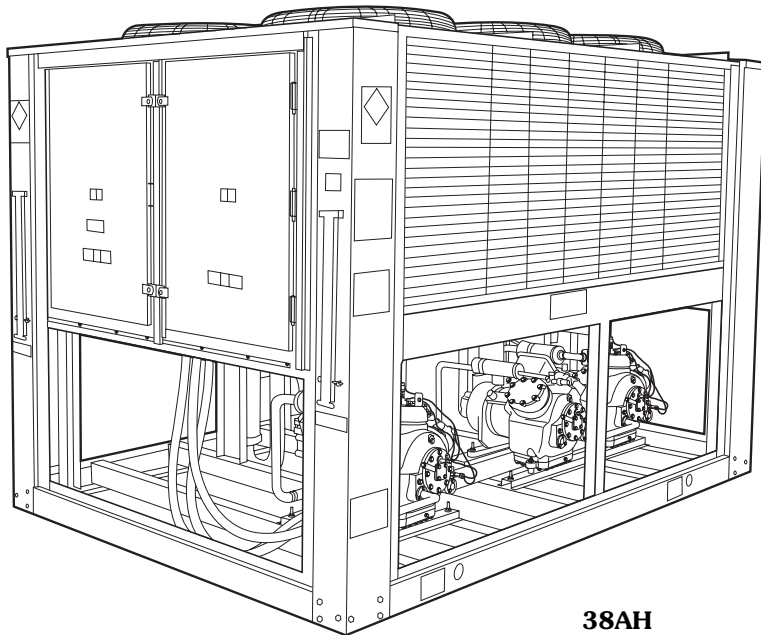


Product Data

38AH044-134 Commercial Air-Cooled Condensing Units 50/60 Hz

40 to 130 Nominal Tons
123 to 390 Nominal kW

Carrier Weathermaster[®] S·E·R·I·E·S



38AH

This catalog describes the versatile 38AH condensing units. All 38AH condensing units may be matched to Carrier's 39 Series air handlers. See the applicable product data catalogs or use Carrier's exclusive **AHUBuilder[®]** (Air-Handling Unit) selection program to select these matching indoor units.

Features/Benefits

- **Up to 4 compressors and 2 independent refrigerant circuits provide design flexibility; the condensing unit can supply one or 2 air handlers**
- **Efficient 38AH Series units save energy, providing condensing unit EERs up to 10.9**
- **Variable air volume units operate at as low as 8% of nominal capacity without the use of energy-inefficient hot gas bypass**
- **Constant volume units operate at as low as 16% of nominal capacity (standard) or 8% of nominal capacity (with accessory unloader)**
- **Weatherized steel cabinet ensures corrosion protection**
- **Protection against high discharge and low suction refrigerant pressure, and low oil pressure ensure compressor reliability**
- **Crankcase heaters prevent oil dilution and ensure compressor lubrication**

The 38AH condensing unit offers the utmost in system configuration and control adaptability. Its premium-quality standard components ensure durable, efficient, and reliable operation.



Versatility

38AH Series condensing units feature up to 4 compressors and 2 refrigerant circuits, and can be matched with a wide variety of air-handling units. All condensing unit circuits can supply a single air handler or 2 separate air handlers.

Standard units have constant volume control. A variable air volume (VAV) option is available. The VAV units have electric unloaders on the compressors to closely match building loads. The VAV option requires only a simple connection to a discharge air controller, thereby saving installation time and cost.

Durable construction

All 38AH units have weatherized cabinets constructed of heavy-duty galvanized steel prepainted with corrosion-resistant baked enamel. Inside and outside surfaces are protected

to ensure long life and good looks. The durable, galvanized steel, prepainted components exceed the requirements of the 500-hour salt spray test per ASTM (American Society for Testing and Materials) B117.

The unit's coils have aluminum fins mechanically bonded to copper tubes for long-term reliability and improved heat transfer. Copper fins on copper tubes are available for harsh industrial or coastal conditions. An inert epoxy barrier is available to provide improved durability in corrosive coastal environments.

Reliability

The 38AH condensing units feature time-proven, highly reliable 06D and 06E semi-hermetic compressors. Unloading capability is a standard feature on each circuit's lead compressor. Each compressor has vibration isolators to provide quiet operation and reduced component stress.

The 38AH units have 2 independent circuits; they provide inherent backup capability. Each circuit is also protected by the following safety features:

- Time Guard anti-short-cycling device
- low oil pressure safety switch
- low refrigerant pressure switch (suction)
- high refrigerant pressure switch (discharge)
- calibrated circuit breakers for compressors and outdoor fans

Easier installation and service

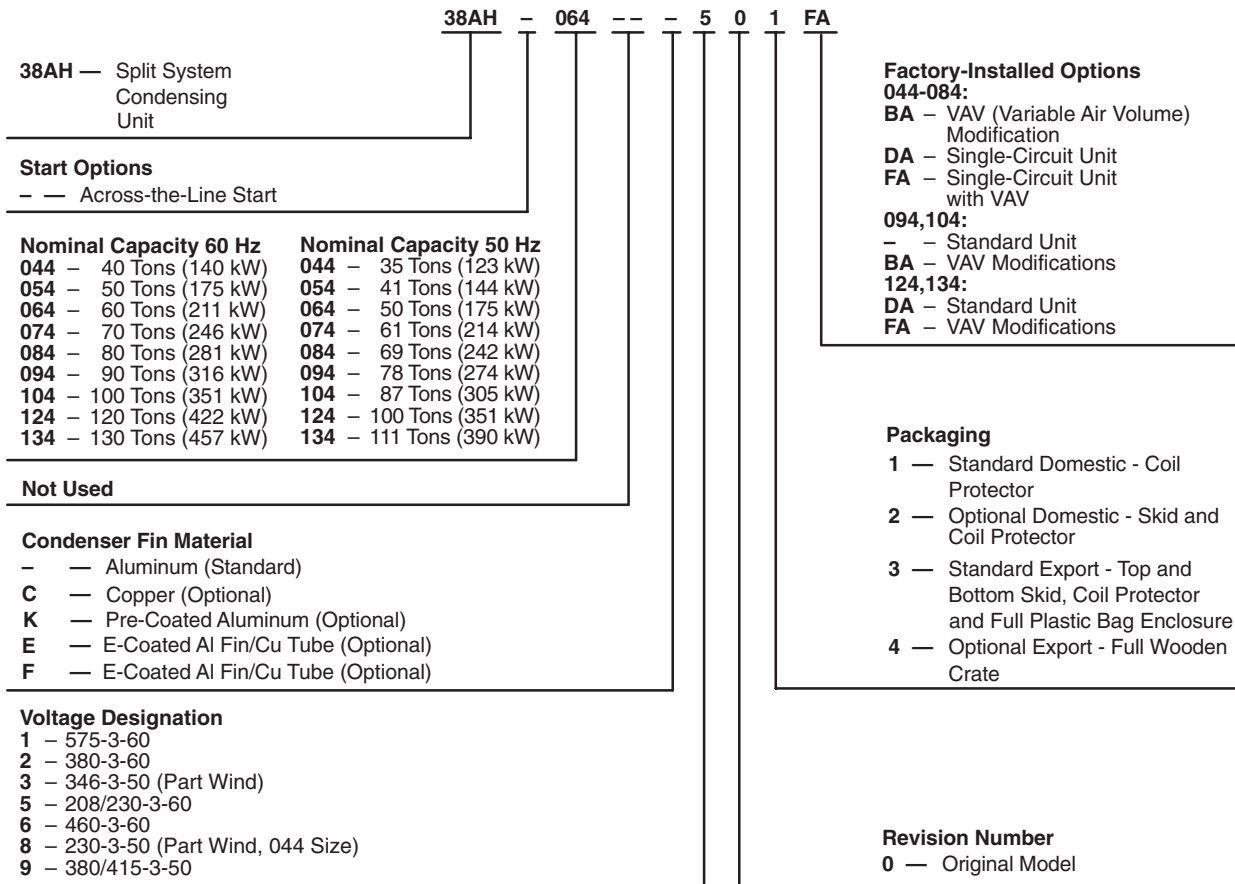
38AH units are equipped with hinged control-box access doors, liquid line shutoff valves, and service valves on the compressors.

Larger 38AH124 and 134 size units are shipped as 2 modules for easier handling and rigging.

Table of contents

| | Page |
|--------------------------------------|-------|
| Features/Benefits | 1,2 |
| Model Number Nomenclature | 3 |
| Ratings Summary | 3,4 |
| Options and Accessories | 5 |
| Physical Data | 6-13 |
| Dimensions | 14-20 |
| Selection Procedure | 21 |
| System Selection Procedure | 21 |
| Performance Data | 22-66 |
| Electrical Data | 67-71 |
| Typical Piping and Wiring | 72-74 |
| Controls | 75-77 |
| Typical Control Wiring | 78 |
| Application Data | 79-89 |
| Guide Specifications | 90-92 |

Model number nomenclature



- LEGEND**
Al — Aluminum
Cu — Copper
VAV — Variable Air Volume

Quality Assurance



Certificate No FM 21837

Approvals:
ISO 9001
EN 9000:2000

Ratings summary

| UNIT SIZE 38AH | CAPACITY Nominal Tons (60 Hz) | CAPACITY Nominal Tons (50 Hz) | EER* (60 Hz) | EER* (50 Hz) | IPLV (60 Hz) | IPLV (50 Hz) |
|-------------------|-------------------------------------|-------------------------------------|--------------|--------------|--------------|--------------|
| 044 | 40 | 35 | 10.7 | 10.8 | 13.0 | 13.4 |
| 054 | 50 | 41 | 10.5 | 10.7 | 13.0 | 13.2 |
| 064 | 60 | 50 | 10.5 | 10.8 | 13.3 | 13.9 |
| 074 | 70 | 61 | 10.1 | 10.3 | 12.6 | 12.8 |
| 084 | 80 | 69 | 10.1 | 10.6 | 12.5 | 12.6 |
| 094 | 90 | 78 | 10.2 | 10.6 | 13.4 | 14.0 |
| 104 | 100 | 87 | 10.4 | 10.9 | 13.8 | 14.3 |
| 124 | 120 | 100 | 10.5 | 10.8 | 13.6 | 14.0 |
| 134 | 130 | 111 | 10.2 | 10.6 | 12.5 | 12.9 |

- LEGEND**
EER — Energy Efficiency Ratio
IPLV — Integrated Part Load Value

NOTE: Ratings are based on 45 F (7.2 C) suction temperature and 95 F (35 C) outside-air temperature, and include suction line losses.

*Rated in accordance with ARI (Air Conditioning & Refrigeration Institute) standard 365.



Ratings summary (cont)



ESTIMATED SOUND POWER LEVEL (dB)

| UNIT | OCTAVE BAND CENTER FREQUENCY (Hz) | | | | | | | | dBA |
|-----------------------|-----------------------------------|-----|-----|-----|------|------|------|------|-----|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 38AH044 | 102 | 96 | 95 | 94 | 92 | 89 | 85 | 80 | 97 |
| 38AH054 | 102 | 96 | 95 | 94 | 92 | 89 | 85 | 80 | 97 |
| 38AH064 | 102 | 96 | 96 | 95 | 93 | 89 | 85 | 81 | 98 |
| 38AH074 | 103 | 95 | 97 | 95 | 93 | 90 | 86 | 81 | 98 |
| 38AH084 | 103 | 96 | 98 | 95 | 94 | 91 | 87 | 82 | 99 |
| 38AH094 | 104 | 95 | 97 | 95 | 94 | 93 | 89 | 87 | 99 |
| 38AH104 | 104 | 95 | 97 | 95 | 94 | 92 | 89 | 88 | 99 |
| 38AH124 Module A&B | 102 | 96 | 96 | 95 | 93 | 89 | 85 | 81 | 98 |
| 38AH134 Module A | 102 | 95 | 96 | 95 | 93 | 89 | 85 | 81 | 98 |
| 38AH134 Module B | 102 | 95 | 96 | 95 | 93 | 89 | 85 | 81 | 98 |

NOTES:

- Estimated sound power levels are -dB re 1 Picowatt.
- The estimated sound power levels are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center on its base.
- Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.

ESTIMATED SOUND POWER LEVEL (dB) UNITS WITH SOUND REDUCTION KIT

| UNIT | OCTAVE BAND CENTER FREQUENCY (Hz) | | | | | | | | dBA |
|-----------------------|-----------------------------------|-----|-----|-----|------|------|------|------|-----|
| | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 38AH044 | 98 | 95 | 95 | 92 | 90 | 86 | 81 | 80 | 95 |
| 38AH054 | 98 | 95 | 95 | 92 | 90 | 86 | 81 | 80 | 95 |
| 38AH064 | 98 | 95 | 96 | 92 | 91 | 87 | 82 | 80 | 96 |
| 38AH074 | 99 | 96 | 95 | 92 | 90 | 86 | 82 | 79 | 95 |
| 38AH084 | 100 | 96 | 96 | 93 | 92 | 87 | 82 | 80 | 96 |
| 38AH094 | 99 | 92 | 93 | 93 | 91 | 90 | 85 | 87 | 97 |
| 38AH104 | 99 | 93 | 94 | 92 | 91 | 89 | 85 | 97 | 96 |
| 38AH124 Module A&B | 99 | 95 | 96 | 93 | 91 | 87 | 82 | 80 | — |
| 38AH134 Module A | 99 | 95 | 96 | 93 | 91 | 87 | 82 | 80 | — |
| 38AH134 Module B | 99 | 96 | 95 | 93 | 91 | 86 | 82 | 79 | — |

NOTES:

- Estimated sound power levels are -dB re 1 Picowatt.
- The estimated sound power levels are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center on its base.
- Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.

Options and accessories



Factory-installed options

VAV (variable air volume) control box modification makes the condensing unit compatible with VAV controller. This option includes factory-installed accumulators and electric unloaders on the compressors as follows:

- 1 — 38AH044
- 2 — 38AH054-084, 104
- 3 — 38AH094
- 4 — 38AH124, 134 (2 per module)

Single-circuit (sizes 38AH044-084 only) includes factory-installed accumulators and all piping and wiring required to make the unit single circuit.

Single-circuit with VAV (sizes 38AH044-084 only) includes piping, wiring, and electric unloaders on the compressors (one on 38AH044 and 2 on 38AH054-084) to make the unit single circuit, VAV-ready. This option also includes factory-installed accumulators.

Enviro-Shield™ condenser options — Several options are available to match coil protection to site conditions for optimum durability. See the table below and refer to the Application Data for selection guidance. Consult your Carrier representative for further information.

Field-installed accessories

Transformer relay package for a remote-control (24-v) thermostat. One 2-stage thermostat is required for use with the relay package.

Additional electric unloader package includes hardware to add an additional step of unloading (coil not included).

Additional pressure unloader package includes all unloader valves and hardware.

Gage panel package contains panel-mounted suction and discharge pressure gages.

Hail guard package protects coils against damage from hail and airborne debris.

ModuPanel™ control provides 10-step microprocessor-based control for VAV applications.

Motormaster® V control maintains correct condensing pressure at low ambient temperatures.

Sound-reduction kit provides a specially designed system of fan propellers and stacks that lower noise without reducing unit performance. The kit is compatible with the Motormaster V accessory.

Unloader conversion kit allows you to convert factory-installed pressure unloaders to electric unloading.

Compressor grille package protects the compressor area after the unit is installed.

Condenser coil grille package protects the condenser area after the unit is installed.

Carrier's line of thermostats provide both programmable and non-programmable capability. The line includes: **Debonair®** commercial programmable thermostats, **TEMP System** controls to offer communication capability with staged heating and cooling, **Commercial Electronic** thermostats that provide 7-day programmable capability for economical applications, and **non-programmable** thermostats offer a multitude of staged heating and cooling subbase options.

CONDENSER COIL OPTIONS

| COPPER-TUBE COILS WITH ENVIRO-SHIELD OPTION | ENVIRONMENT | | | | | |
|---|-------------|--------------|------------------|----------------|------------|-----------------------------|
| | Standard | Mild Coastal | Moderate Coastal | Severe Coastal | Industrial | Combined Industrial/Coastal |
| Al Fins (Standard Coils) | X | | | | | |
| Cu Fins | | | X | | | |
| Al Fins, E-Coating | | | | | X | |
| Cu Fins, E-Coating | | | | X | | X |
| Al Fins, Pre-Coated | | X | | | | |

LEGEND

- Al — Aluminum
- Cu — Copper
- E-Coated — Epoxy Coating Applied to Entire Coil Assembly
- Enviro-Shield — Family of Coil Protection Options
- Pre-Coated — Epoxy Coating Applied to Fin Stock Material

Physical data



60 Hz, ENGLISH

| UNIT 38AH | 044 | 054 | 064 | 074 | 084 | | | | | |
|--|--|----------------------------|----------------------------|-----------------------------|-----------------------------|---|--|--|--|--|
| NOMINAL CAPACITY (Tons) | 40 | 50 | 60 | 70 | 80 | | | | | |
| OPERATING WEIGHT WITH REFRIGERANT (lb) (approx) | | | | | | | | | | |
| Cu-Al | 3259 | 3309 | 3565 | 3812 | 4057 | | | | | |
| Cu-Cu | 3547 | 3597 | 3998 | 4229 | 4735 | | | | | |
| SHIPPING WEIGHT WITH COIL PROTECTION ONLY (lb) (approx) | | | | | | | | | | |
| Cu-Al | 3250 | 3290 | 3530 | 3780 | 4000 | | | | | |
| Cu-Cu | 3538 | 3578 | 3963 | 4197 | 4678 | | | | | |
| REFRIGERANT, TYPE | | | R-22 | | | | | | | |
| Shipping Charge (lb) | 7 | 7 | 7 | 9 | 9 | | | | | |
| Operating Charge, Typical (lb) | 62 | 72 | 88 | 104 | 130 | | | | | |
| DUAL-CKT UNIT COMPRESSOR Type...Rpm (Quantity) Cylinder Ckt* Model No. 06E Oil Charge (pt) Capacity Control Steps (%) | Reciprocating Semi-Hermetic...1750 (4) A (4) B (4) A (6) B (6) A (6) B (6) A (6) B (6) A (6) B -250 -250 -250 -265 -265 -275 -275 -299 -299 -299 17 17 17 21 21 21 21 19 19 19 100 100 100 100 100 100 100 100 100 100 75 75 75 79 84 86 86 86 83 83 50 50 58† 69† 69† 71† 71† 71† 67† 67† 25 25 42 48 48 43 43 43 50 50 21 32 32 29 29 29 33 33 16† 16† 14† 14† 17† 17† | | | | | | | | | |
| OPTIONAL SINGLE-CKT UNIT COMPRESSOR Type...Rpm (Quantity) Cylinder Ckt** Model No. 06E Oil Charge (pt) Capacity Control Steps (%) | Reciprocating Semi-Hermetic...1750 (4) A1 (4) A2 (6) A1 (4) A2 (6) A1 (6) A2 (6) A1 (6) A2 (6) A1 (6) A2 -250 -250 -265 -250 -275 -265 -299 -275 -299 -299 17 17 21 17 21 21 19 21 19 19 100 100 100 100 100 100 100 100 100 100 75 80 82 81 81 81 81 81 83 83 50 61† 64† 62† 62† 62† 62† 62† 67† 67† 25 56 55 57 57 57 57 57 50 50 37 36 38 38 38 38 33 33 18† 18† 19† 19† 17† 17† | | | | | | | | | |
| CONDENSER FANS (4 Blade) (Quantity) Dia (in.) Nominal Hp Airflow (cfm) Speed (rpm) Total Power (kW) | (4) 30 1.0 35,000 1140 6.2 | | | | | (6) 30 1.0 52,000 51,000 1140 9.3 | | | | |
| CONDENSER COIL — Rows Fins per in. Face Area (ft²) Storage Capacity (lb per circuit) at 120 F | 2 17 80.5 35 35 | 2 17 80.5 35 35 | 3 17 80.5 55 55 | 2 19 116.7 55 55 | 3 17 116.7 80 80 | | | | | |
| FAN CYCLING CONTROL†† | Close (psig) 255 ± 10 Open (psig) 160 ± 10 | | | | | | | | | |
| CONNECTIONS | Suction, ODF (in.)*** 2 1/8 Liquid, ODF (in.)*** 7/8 Hot Gas Bypass, ODF (in.) 5/8 | | | | | | | | | |

LEGEND

- Cu-Al** — Copper Tubes with Aluminum Fins
- Cu-Cu** — Copper Tubes with Copper Fins (Optional)
- ODF** — Outside Diameter, Female
- VAV** — Variable Air Volume

*Circuit A compressor is lead.

†Unloading steps available only on units ordered with the VAV factory-installed option or on constant-volume units with additional field-installed accessory unloader.

**Circuit A compressor is lead on standard units; circuit B compressor is lead on optional single-circuit units.

††On all 044-134 units, fans no. 3 and 4; also on 38AH074, 084 (dual-circuit units only) and 38AH094, 104, fans no. 5 and 6.

***For optional single-circuit units, suction ODF is 2 5/8 in. and liquid ODF is 1 1/8 inches. Single circuit units have a single suction line and single liquid line. No field modification is required.

NOTES:

1. Certified dimensional drawings available on request.
2. Refer to Unloading Sequences table, pages 80 and 81, for additional system capacity step data.



60 Hz, ENGLISH (cont)

| UNIT 38AH | 094 | | 104 | | 124 | | 134 | | | | | | | |
|---|--------|-------|--------|-------|---|-------|--------|-------|--------|-------|--------|-------|--------|--|
| | | | | | 124A | 124B | 134A | 134B | | | | | | |
| NOMINAL CAPACITY (Tons) | 90 | | 100 | | 60 | 60 | 60 | 70 | | | | | | |
| OPERATING WEIGHT WITH REFRIGERANT (approx) — lb | | | | | | | | | | | | | | |
| Cu-Al | 5088 | | 5435 | | 3630* | 3630* | 3630* | 3877* | | | | | | |
| Cu-Cu | 5813 | | 6160 | | 4063* | 4063* | 4063* | 4294* | | | | | | |
| SHIPPING WEIGHT WITH COIL PROTECTION AND SKID (approx) — lb | | | | | | | | | | | | | | |
| Cu-Al | 5630 | | 5990 | | 3907* | 3907* | 3907* | 4080* | | | | | | |
| Cu-Cu | 6355 | | 6715 | | 4340* | 4340* | 4340* | 4497* | | | | | | |
| REFRIGERANT, TYPE | | | | | R-22 | | | | | | | | | |
| Shipping Charge (lb) | 10 | | 10 | | 7 | 7 | 7 | 9 | | | | | | |
| Operating Charge, Typical (lb) | 148 | | 135 | | 88 | 88 | 88 | 104 | | | | | | |
| Qty of Circuits | 2 | | 2 | | 1 | 1 | 1 | 1 | | | | | | |
| COMPRESSOR Type...Rpm (Quantity Cylinder) | | | | | Reciprocating Semi-Hermetic...1750 | | | | | | | | | |
| Comprt | (6)A1 | (4)A2 | (6)B1 | (6)A1 | (4)A2 | (6)B1 | (6)B2 | (6)A1 | (6)A2 | (6)A1 | (6)A2 | (6)A1 | (6)A2 | |
| Model No. 06E | -275 | -250 | -299 | -265 | -250 | -265 | -265 | -275 | -265 | -275 | -265 | -275 | -265 | |
| Oil Charge (pt) | 21 | 17 | 19 | 21 | 17 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |
| Circuit Capacity — % (approx) | 55 | | 45 | | 47 | | 53 | | 50 | | 50 | | 45 | |
| Capacity Control Steps** | 6 | | 8 | | 8 | | 5 | | 4 | | 4 | | 4 | |
| CONDENSER FANS (6 Blade) | | | | | | | | | | | | | | |
| Quantity...Dia (in.) | 6...30 | | 6...30 | | 4...30 | | 4...30 | | 4...30 | | 4...30 | | 6...30 | |
| Nominal Hp | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Airflow (cfm) | 52,000 | | 52,000 | | 35,000 | | 35,000 | | 35,000 | | 35,000 | | 52,000 | |
| Speed (rpm) | 1140 | | 1140 | | 1140 | | 1140 | | 1140 | | 1140 | | 1140 | |
| Total Power (kW) | 9.4 | | 9.5 | | 6.4 | | 6.4 | | 6.4 | | 6.4 | | 9.2 | |
| CONDENSER COIL | | | | | Enhanced Copper Tubes, Lanced Aluminum Fins | | | | | | | | | |
| Rows...Fins per in. | 3...17 | | 3...17 | | 3...17 | | 3...17 | | 3...17 | | 3...17 | | 2...19 | |
| Face Area (sq ft) | 128.3 | | 128.3 | | 80.5 | | 80.5 | | 80.5 | | 80.5 | | 116.7 | |
| Storage Capacity (lb per ckt) at 120 F | 89 | | 89 | | 110 | | 110 | | 110 | | 110 | | 110 | |
| FAN CYCLING CONTROLS†† | | | | | 255 ± 10 | | | | | | | | | |
| Close (psig) | | | | | 160 ± 10 | | | | | | | | | |
| Open (psig) | | | | | | | | | | | | | | |
| CONNECTIONS | | | | | | | | | | | | | | |
| Suction, ODF (in.) | 2 1/8 | | 2 1/8 | | 2 5/8 | | 2 5/8 | | 2 5/8 | | 2 5/8 | | 2 5/8 | |
| Liquid, ODF (in.) | 7/8 | | 7/8 | | 1 1/8 | | 1 1/8 | | 1 1/8 | | 1 1/8 | | 1 1/8 | |
| Hot Gas Bypass, ODF (in.) | 5/8 | | 5/8 | | 5/8 | | 5/8 | | 5/8 | | 5/8 | | 5/8 | |

LEGEND

Cu-Al — Copper Tubes with Aluminum Fins
Cu-Cu — Copper Tubes with Copper Fins
ODF — Outside Diameter, Female

*Includes piping and trim kit.

†Compressors are shipped with minimum oil charge.

**Capacity control steps listed are for constant volume units with no accessories. Refer to Unloading Sequence table, pages 80 and 81, for additional system capacity information.

††On all 044-134 units, fans no. 3 and 4; also on 38AH074, 084 (dual-circuit units only) and 38AH094, 104, fans no. 5 and 6.

NOTES:

- Unit 38AH124 consists of one 124A module and one 124B module. Unit 38AH134 consists of one 134A module and one 134B module.
- Certified dimensional drawings available on request.
- Lead and lag circuits and compressors are as follows:

| UNIT 38AH | 094 | 104 | 124 | 134 |
|---------------------|-----------|-----|-------------|-------------|
| LEAD CIRCUIT | A | A | Module 124A | Module 134A |
| Compressor, Lead | A1 | A1 | A1 | A1 |
| Compressor, Lag | A2 | A2 | A2 | A2 |
| LAG CIRCUIT | B | B | Module 124B | Module 134B |
| Compressor, Lead | B1 | B1 | A1 | A1 |
| Compressor, Lag | B1 *** | B2 | A2 | A2 |

***Circuit has only one compressor.

Physical data (cont)



60 Hz, SI

| UNIT 38AH | 044 | 054 | 064 | 074 | 084 | | | | | |
|--|------------------------------------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| NOMINAL CAPACITY (kW) | 140 | 175 | 210 | 245 | 280 | | | | | |
| OPERATING WEIGHT WITH REFRIGERANT (kg) (approx) | | | | | | | | | | |
| Cu-Al | 1478 | 1500 | 1615 | 1790 | 1840 | | | | | |
| Cu-Cu | 1609 | 1630 | 1815 | 1320 | 2147 | | | | | |
| SHIPPING WEIGHT WITH COIL PROTECTION ONLY (kg) (approx) | | | | | | | | | | |
| Cu-Al | 1474 | 1492 | 1600 | 1714 | 1814 | | | | | |
| Cu-Cu | 1605 | 1623 | 1797 | 1903 | 2122 | | | | | |
| REFRIGERANT, TYPE | | | R-22 | | | | | | | |
| Shipping Charge (kg) | 3 | 3 | 3 | 4 | 4 | | | | | |
| Operating Charge, Typical (kg) | 28 | 33 | 40 | 47 | 59 | | | | | |
| DUAL-CKT UNIT | | | | | | | | | | |
| COMPRESSOR Type...r/s | Reciprocating Semi-Hermetic...29.2 | | | | | | | | | |
| (Quantity) Cylinder Ckt* | (4) A | (4) B | (4) A | (6) B | (6) A | (6) B | (6) A | (6) B | (6) A | (6) B |
| Model No. 06E | -250 | -250 | -250 | -265 | -265 | -275 | -275 | -299 | -299 | -299 |
| Oil Charge (L) | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 9 | 9 | 9 |
| Capacity Control Steps (%) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| | 75 | 79 | 84 | 86 | 86 | 86 | 86 | 83 | 83 | 83 |
| | 50 | 58† | 69† | 71† | 71† | 71† | 71† | 67† | 67† | 67† |
| | 25 | 42 | 48 | 43 | 43 | 43 | 43 | 50 | 50 | 50 |
| | | 21 | 32 | 29 | 29 | 29 | 29 | 33 | 33 | 33 |
| | | | 16† | 14† | 14† | 14† | 14† | 17† | 17† | 17† |
| OPTIONAL SINGLE-CKT UNIT | | | | | | | | | | |
| COMPRESSOR Type...r/s | Reciprocating Semi-Hermetic...29.2 | | | | | | | | | |
| (Quantity) Cylinder Ckt** | (4) A1 | (4) A2 | (6) A1 | (4) A2 | (6) A1 | (6) A2 | (6) A1 | (6) A2 | (6) A1 | (6) A2 |
| Model No. 06E | -250 | -250 | -265 | -250 | -275 | -265 | -299 | -275 | -299 | -299 |
| Oil Charge (L) | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 9 | 9 | 9 |
| Capacity Control Steps (%) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| | 75 | 80 | 82 | 81 | 81 | 81 | 81 | 83 | 83 | 83 |
| | 50 | 61† | 64† | 62† | 62† | 62† | 62† | 67† | 67† | 67† |
| | 25 | 56 | 55 | 57 | 57 | 57 | 57 | 50 | 50 | 50 |
| | | 37 | 36 | 38 | 38 | 38 | 38 | 33 | 33 | 33 |
| | | | 18† | 19† | 19† | 19† | 19† | 17† | 17† | 17† |
| CONDENSER FANS (4 Blade) | | | | | | | | | | |
| (Quantity) Dia (mm) | (4) 762 | | | | | (6) 762 | | | | |
| Nominal kW | .746 | | | | | .746 | | | | |
| Airflow (l/s) | 16520 | | | | | 24544 | | | | |
| Speed (r/s) | 19 | | | | | 19 | | | | |
| Total Power (kW) | 6.2 | | | | | 9.3 | | | | |
| CONDENSER COIL — Rows | | | | | | | | | | |
| Fins per m. | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 |
| Face Area (m²) | 669 | 669 | 669 | 782 | 782 | 782 | 10.8 | 10.8 | 10.8 | 10.8 |
| Storage Capacity (kg per circuit) at 49 C | 16 | 16 | 25 | 25 | 25 | 25 | 36 | 36 | 36 | 36 |
| FAN CYCLING CONTROL†† | | | | | | | | | | |
| Close (kPa) | 1768 ± 69 | | | | | | | | | |
| Open (kPa) | 1103 ± 69 | | | | | | | | | |
| CONNECTIONS | | | | | | | | | | |
| Suction, ODF (in.)*** | 2 1/8 | | | | | | | | | |
| Liquid, ODF (in.)*** | 7/8 | | | | | | | | | |
| Hot Gas Bypass, ODF (in.) | 5/8 | | | | | | | | | |

LEGEND

- Cu-Al** — Copper Tubes with Aluminum Fins
- Cu-Cu** — Copper Tubes with Copper Fins (Optional)
- ODF** — Outside Diameter, Female
- VAV** — Variable Air Volume

*Circuit A compressor is lead.

†Unloading steps available only on units ordered with the VAV factory-installed option or on constant-volume units with additional field-installed accessory unloader.

**Circuit A compressor is lead on standard units; circuit B compressor is lead on optional single-circuit units.

††On all 044-134 units, fans no. 3 and 4; also on 38AH074, 084 (dual-circuit units only) and 38AH094, 104, fans no. 5 and 6.

***For optional single-circuit units, suction ODF is 2 5/8 in. and liquid ODF is 1 1/8 inches. Single circuit units have a single suction line and single liquid line. No field modification is required.

NOTES:

1. Certified dimensional drawings available on request.
2. Refer to Unloading Sequences table, pages 80 and 81, for additional system capacity step data.
3. Equivalent connection values in mm are as follows:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |



60 Hz, SI (cont)

| UNIT 38AH | 094 | | 104 | | 124 | | 134 | | | | | | | |
|---|-------------------------------|-------|-------------------------------|-------|---|-------|-------------------------------|-------|-------------------------------|-------|-------------------------------|-------|-------------------------------|-------|
| | | | | | 124A | 124B | 134A | 134B | | | | | | |
| NOMINAL CAPACITY (Tons) | 316 | | 350 | | 210 | 210 | 210 | 245 | | | | | | |
| OPERATING WEIGHT WITH REFRIGERANT (approx) — kg | | | | | | | | | | | | | | |
| Cu-Al | 2208 | | 2465 | | 1647* | 1647* | 1647* | 1759* | | | | | | |
| Cu-Cu | 2637 | | 2794 | | 1843* | 1843* | 1843* | 1843* | | | | | | |
| SHIPPING WEIGHT WITH COIL PROTECTION AND SKID (approx) — kg | | | | | | | | | | | | | | |
| Cu-Al | 2554 | | 1717 | | 1860* | 1860* | 1860* | 1860* | | | | | | |
| Cu-Cu | 2883 | | 3046 | | 1928* | 1968* | 1968* | 2040* | | | | | | |
| REFRIGERANT, TYPE | | | | | R-22 | | | | | | | | | |
| Shipping Charge (kg) | 5 | | 5 | | 3 | 3 | 3 | 4 | | | | | | |
| Operating Charge, Typical (kg) | 67 | | 61 | | 40 | 40 | 40 | 47 | | | | | | |
| Qty of Circuits | 2 | | 2 | | 1 | 1 | 1 | 1 | | | | | | |
| COMPRESSOR Type, r/s (Quantity Cylinder) | | | | | Reciprocating Semi-Hermetic...29.2 | | | | | | | | | |
| Compr† | (6)A1 | (4)A2 | (6)B1 | (6)A1 | (4)A2 | (6)B1 | (6)B2 | (6)A1 | (6)A2 | (6)A1 | (6)A2 | (6)A1 | (6)A2 | (6)A1 |
| Model No. 06E | -275 | -250 | -299 | -265 | -250 | -265 | -265 | -275 | -265 | -275 | -265 | -275 | -265 | -299 |
| Oil Charge (L) | 10 | 8 | 9 | 10 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 10 |
| Circuit Capacity — % (approx) | 55 | | 47 | | 53 | | 50 | | 50 | | 45 | | 55 | |
| Capacity Control Steps** | 6 | | 8 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| CONDENSER FANS (6 Blade) | | | | | | | | | | | | | | |
| Quantity...Dia (mm) | 6...762 | | 6...762 | | 4...762 | | 4...762 | | 4...762 | | 6...762 | | 6...762 | |
| Nominal kW | .746 | | .746 | | .746 | | .746 | | .746 | | .746 | | .746 | |
| Airflow (l/s) | 24,544 | | 24,544 | | 46,250 | | 16,250 | | 16,254 | | 24,544 | | 24,544 | |
| Speed (r/s) | 19 | | 19 | | 19 | | 19 | | 19 | | 19 | | 19 | |
| Total Power (kW) | 9.4 | | 9.5 | | 6.4 | | 6.4 | | 6.4 | | 9.2 | | 9.2 | |
| CONDENSER COIL | | | | | Enhanced Copper Tubes, Lanced Aluminum Fins | | | | | | | | | |
| Rows...Fins per m | 3...669 | | 3...669 | | 3...669 | | 3...669 | | 3...669 | | 2...78219 | | 2...78219 | |
| Face Area (m ²) | 1139 | | 139 | | 7.5 | | 7.5 | | 7.5 | | 10.8 | | 10.8 | |
| Storage Capacity (kg per ckt) at 120 F | 40 | | 40 | | 50 | | 50 | | 50 | | 50 | | 50 | |
| FAN CYCLING CONTROLS†† | | | | | 1958 ± 69 | | | | 1103 ± 69 | | | | | |
| Close (kPa) | | | | | | | | | | | | | | |
| Open (kPa) | | | | | | | | | | | | | | |
| CONNECTIONS | | | | | | | | | | | | | | |
| Suction, ODF (in.) | 2 ¹ / ₈ | | 2 ¹ / ₈ | | 2 ⁵ / ₈ | | 2 ⁵ / ₈ | | 2 ⁵ / ₈ | | 2 ⁵ / ₈ | | 2 ⁵ / ₈ | |
| Liquid, ODF (in.) | 7 ¹ / ₈ | | 7 ¹ / ₈ | | 1 ¹ / ₈ | | 1 ¹ / ₈ | | 1 ¹ / ₈ | | 1 ¹ / ₈ | | 1 ¹ / ₈ | |
| Hot Gas Bypass, ODF (in.) | 5 ¹ / ₈ | | 5 ¹ / ₈ | | 5 ¹ / ₈ | | 5 ¹ / ₈ | | 5 ¹ / ₈ | | 5 ¹ / ₈ | | 5 ¹ / ₈ | |

LEGEND

Cu-Al — Copper Tubes with Aluminum Fins
Cu-Cu — Copper Tubes with Copper Fins
ODF — Outside Diameter, Female

*Includes piping and trim kit.

†Compressors are shipped with minimum oil charge.

**Capacity control steps listed are for constant volume units with no accessories. Refer to Unloading Sequence table, pages 80 and 81, for additional system capacity information.

††On all 044-134 units, fans no. 3 and 4; also on 38AH074, 084 (dual-circuit units only) and 38AH094, 104, fans no. 5 and 6.

NOTES:

- Unit 38AH124 consists of one 124A module and one 124B module. Unit 38AH134 consists of one 134A module and one 134B module.
- Certified dimensional drawings available on request.

3. Lead and lag circuits and compressors are as follows:

| UNIT 38AH | 094 | 104 | 124 | 134 |
|---------------------|-----|-----|-------------|-------------|
| LEAD CIRCUIT | A | A | Module 124A | Module 134A |
| Compressor, Lead | A1 | A1 | A1 | A1 |
| Compressor, Lag | A2 | A2 | A2 | A2 |
| LAG CIRCUIT | B | B | Module 124B | Module 134B |
| Compressor, Lead | B1 | B1 | A1 | A1 |
| Compressor, Lag | *** | B2 | A2 | A2 |

***Circuit has only one compressor.

4. Equivalent connection values in mm are as follows:

| in. | mm |
|-------------------------------|------|
| 5 ¹ / ₈ | 15.9 |
| 7 ¹ / ₈ | 22.2 |
| 1 ¹ / ₈ | 28.6 |
| 2 ¹ / ₈ | 54.0 |
| 2 ⁵ / ₈ | 66.7 |

Physical data (cont)



50 Hz, ENGLISH

| UNIT 38AH | 044 | 054 | 064 | 074 | 084 | | | | | |
|---|------------------------------------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| NOMINAL CAPACITY (Tons) | 35 | 41 | 50 | 61 | 69 | | | | | |
| OPERATING WEIGHT WITH REFRIGERANT (lb) (Approx.) | | | | | | | | | | |
| Cu-Al Coils | 3259 | 3309 | 3565 | 3812 | 4057 | | | | | |
| Cu-Cu Coils | 3547 | 3597 | 3998 | 4229 | 4735 | | | | | |
| SHIPPING WEIGHT WITH COIL PROTECTION ONLY (lb) (Approx.) | | | | | | | | | | |
| Cu-Al Coils | 3250 | 3290 | 3530 | 3780 | 4000 | | | | | |
| Cu-Cu Coils | 3538 | 3578 | 3963 | 4197 | 4678 | | | | | |
| TYPICAL OPERATING REFRIGERANT CHARGE (lb, approx.) R-22 | 62 | 72 | 88 | 104 | 130 | | | | | |
| COMPRESSOR Type...Rpm (Qty Cylinder)* Circuit† Model No. 06E-Oil Charge (pt) Capacity Control Steps** | Reciprocating Semi-Hermetic...1460 | | | | | | | | | |
| | (4) A | (4) B | (4) A | (6) B | (6) A | (6) B | (6) A | (6) B | (6) A | (6) B |
| | 250 | 250 | 250 | 265 | 265 | 275 | 275 | 299 | 299 | 299 |
| | 17 | 17 | 17 | 21 | 21 | 21 | 21 | 19 | 19 | 19 |
| | 4 | | | | | | | | | |
| CONDENSER FANS (4 Blade) Qty...Dia (in.) Airflow (cfm) Speed (rpm) Total Power (kW) | | | | | | | | | | |
| | 4...30 | | | | 52,000 | | 6...30 | | 51,000 | |
| | 35,000 | | | | | | 950 | | | |
| | 950 | | | | | | 9.3 | | | |
| | 6.2 | | | | | | | | | |
| CONDENSER COIL — Rows Fins per...in. Face Area (ft ²) Storage Capacity (lb per circuit, approx.) at 120 F | 2 | 2 | 3 | 2 | 3 | | | | | |
| | 17 | 17 | 17 | 19 | 17 | | | | | |
| | 80.5 | 80.5 | 80.5 | 116.7 | 116.7 | | | | | |
| | 35 | 35 | 55 | 55 | 80 | | | | | |
| FAN CYCLING CONTROLS †† Close (psig) Open (psig) | 255 ± 10 | | | | | | | | | |
| | 160 ± 10 | | | | | | | | | |
| CONNECTIONS Suction, ODF (in.)*** Liquid, ODF (in.)*** Hot Gas Bypass, ODF (in.) | | | | | | | | | | |
| | 5/8 | 2 1/8 | 5/8 | 7/8 | 2 1/8 | 7/8 | 5/8 | | | |
| | | Ckt A | Ckt B | | | | | | | |

LEGEND

- Cu-Al** — Copper Tube, Aluminum Fin
- Cu-Cu** — Copper Tube, Copper Fin
- ODF** — Outside Diameter, Female

*06E250 compressors have 4 cylinders; all others have 6.

†Circuit A compressor is lead on standard units; circuit B compressor is lead on optional single-circuit units.

**Capacity control steps listed are for constant volume units with no accessories. Refer to Minimum Outdoor-Air Operating Temperature and Unloading Sequences tables, pages 80 and 81, for additional system capacity information.

††On all 044-134 units, fan no. 3 and 4; also on 38AH074,084 (dual-circuit units only) and 38AH094,104, fans no. 5 and 6.

***For single-circuit units, suction ODF is 2 5/8 in. and liquid ODF is 1 1/8 inches. Single circuit units have a single suction line and single liquid line. No field modification is required.

NOTE: Certified dimensional drawings available on request.



50 Hz, ENGLISH (cont)

| UNIT 38AH | 094 | | 104 | | 124 | | 134 | | | | | |
|--|--------|-------|--------|-------|---|--------|----------------------|--------|-------|-------|-------|--|
| | | | | | 124A | 124B | 134A | 134B | | | | |
| NOMINAL CAPACITY (Tons) | 78 | | 87 | | 50 | 50 | 50 | 61 | | | | |
| OPERATING WEIGHT WITH REFRIGERANT (Approx.) (lb) | | | | | | | | | | | | |
| Cu-Al | 5088 | | 5435 | | 3630* | 3630* | 3630* | 3877* | | | | |
| Cu-Cu | 5813 | | 6160 | | 4063* | 4063* | 4063* | 4294* | | | | |
| SHIPPING WEIGHT WITH COIL PROTECTION AND SKID (Approx.) (lb) | | | | | | | | | | | | |
| Cu-Al | 5630 | | 5990 | | 3907* | 3907* | 3907* | 4080 | | | | |
| Cu-Cu | 6355 | | 6715 | | 4340* | 4340* | 4340* | 4497 | | | | |
| TYPICAL OPERATING REFRIGERANT Charge (Approx.) (lb) | 148 | | 135 | | 88 | 88 | 88 | 104 | | | | |
| Qty of Circuits | 2 | | 2 | | 1 | 1 | 1 | 1 | | | | |
| COMPRESSOR Type...Rpm (Qty Cylinder) Compressor† Model No. 06E | | | | | Reciprocating | | Semi-Hermetic...1460 | | | | | |
| Oil Charge (pt) | (6)A1 | (4)A2 | (6)B1 | (6)A1 | (4)A2 | (6)B1 | (6)B2 | (6)A1 | (6)A2 | (6)A1 | (6)A2 | |
| Capacity Capacity (%) (Approx.) | -275 | -250 | -299 | -265 | -250 | -265 | -265 | -275 | -265 | -275 | -265 | |
| Circuit Control Steps** | 21 | 17 | 19 | 21 | 17 | 21 | 21 | 21 | 21 | 21 | 21 | |
| | 55 | 45 | 47 | 53 | 50 | 50 | 45 | 55 | | | | |
| | 6 | | 8 | | 4 | 4 | 4 | 4 | | | | |
| CONDENSER FANS (4 Blade) | | | | | | | | | | | | |
| Qty...Dia (in.) | 6...30 | | 6...30 | | 4...30 | 4...30 | 4...30 | 6...30 | | | | |
| Airflow (cfm) | 52,000 | | 52,000 | | 35,000 | 35,000 | 35,000 | 52,000 | | | | |
| Speed (rpm) | 950 | | 950 | | 950 | 950 | 950 | 950 | | | | |
| Total Power (kW) | 9.4 | | 9.5 | | 6.4 | 6.4 | 6.4 | 9.2 | | | | |
| CONDENSER COIL | | | | | Enhanced Copper Tubes, Lanced Aluminum Fins | | | | | | | |
| Rows...Fins per in. | 3...17 | | 3...17 | | 3...17 | 3...17 | 3...17 | 2...19 | | | | |
| Face Area (sq ft) | 128.3 | | 128.3 | | 80.5 | 80.5 | 80.5 | 116.7 | | | | |
| Storage Capacity (kg per circuit, approx.) at 120 F | 178 | | 178 | | 110 | 110 | 110 | 110 | | | | |
| FAN CYCLING CONTROLS†† | | | | | 255 ± 10 | | | | | | | |
| Close (psig) | | | | | 160 ± 10 | | | | | | | |
| Open (psig) | | | | | | | | | | | | |
| CONNECTIONS | | | | | | | | | | | | |
| Suction, ODF (in.) | 2 1/8 | | 2 1/8 | | 2 5/8 | 2 5/8 | 2 5/8 | 2 5/8 | | | | |
| Liquid, ODF (in.) | 7/8 | | 7/8 | | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 | | | | |
| Hot Gas Bypass, ODF (in.) | 5/8 | | 5/8 | | 5/8 | 5/8 | 5/8 | 5/8 | | | | |

LEGEND

Cu-Al — Copper Tube, Aluminum Fin
Cu-Cu — Copper Tube, Copper Fin
ODF — Outside Diameter, Female

*Includes piping and trim kit.

†Compressor A1 is lead compressor on all circuits except circuit B on units 38AH094 and 104. Compressor B1 is lead on circuit B on units 38AH094 and 104. Compressors are shipped with minimum oil charge.

**Capacity control steps listed are for constant volume units with no accessories. Refer to Minimum Outdoor-Air Operating Temperature and Unloading Sequences tables, pages 80 and 81, for additional system capacity information.

††On all 044-134 units, fan no. 3 and 4; also on 38AH074,084 (dual-circuit units only) and 38AH094,104, fans no. 5 and 6.

NOTES:

- Unit 38AH124 consists of one 124A module and one 124B module. Unit 38AH134 consists of one 134A module and one 134B module.
- Certified dimensional drawings available on request.
- Lead and lag circuits and compressors are as follows:

| UNIT 38AH | 094 | 104 | 124 | 134 |
|---------------------|-----|-----|-------------|-------------|
| LEAD CIRCUIT | A | A | Module 124A | Module 134A |
| Compressor, Lead | A1 | A1 | A1 | A1 |
| Compressor, Lag | A2 | A2 | A2 | A2 |
| LAG CIRCUIT | B | B | Module 124B | Module 134B |
| Compressor, Lead | B1 | B1 | A1 | A1 |
| Compressor, Lag | *** | B2 | A2 | A2 |

***Circuit only has one compressor.

Physical data (cont)



50 Hz, SI

| UNIT 38AH | 044 | 054 | 064 | 074 | 084 | | | | | |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| NOMINAL CAPACITY (kW) | 123 | 144 | 175 | 214 | 242 | | | | | |
| OPERATING WEIGHT WITH REFRIGERANT (kg) (Approx.) | | | | | | | | | | |
| Cu-Al Coils | 1480 | 1501 | 1617 | 1729 | 1840 | | | | | |
| Cu-Cu Coils | 1609 | 1632 | 1813 | 1918 | 2148 | | | | | |
| SHIPPING WEIGHT WITH COIL PROTECTION ONLY (kg) (Approx.) | | | | | | | | | | |
| Cu-Al Coils | 1474 | 1492 | 1601 | 1715 | 1814 | | | | | |
| Cu-Cu Coils | 1605 | 1623 | 1798 | 1904 | 2122 | | | | | |
| TYPICAL OPERATING REFRIGERANT CHARGE (kg, approx.) R-22 | 28.1 | 32.7 | 39.9 | 47.2 | 58.9 | | | | | |
| COMPRESSOR Type...r/s (Qty Cylinder)* Circuit† Model No. 06E-Oil Charge (L) Capacity Control Steps** | Reciprocating Semi-Hermetic...24.3 | | | | | | | | | |
| | (4) A | (4) B | (4) A | (6) B | (6) A | (6) B | (6) A | (6) B | (6) A | (6) B |
| | 250 | 250 | 250 | 265 | 265 | 275 | 275 | 299 | 299 | 299 |
| | 8.0 | 8.0 | 8.0 | 9.9 | 9.9 | 9.9 | 9.9 | 9.0 | 9.0 | 9.0 |
| | 4 | | | | | | | | | |
| CONDENSER FANS (4 Blade) Qty...Dia (mm) Airflow (L/s) Speed (r/s) Total Power (kW) | 4...762 | | | | | 6...762 | | | | |
| | 16 500 | | | | | 24 500 | | | | |
| | 15.8 | | | | | 15.8 | | | | |
| | 6.2 | | | | | 9.3 | | | | |
| CONDENSER COIL Row...Fins per m Face Area (m²) Storage Capacity (kg per circuit, approx.) at 48.9 C | Enhanced Copper Tubes, Lanced Aluminum Fins | | | | | | | | | |
| | 2...669 | 2...669 | 3...669 | 2...782 | 3...669 | 2...782 | 3...669 | 2...782 | 3...669 | 3...669 |
| | 7.48 | 7.48 | 7.48 | 10.84 | 7.48 | 10.84 | 7.48 | 10.84 | 10.84 | 10.84 |
| | 16 | 16 | 25 | 25 | 16 | 25 | 25 | 36 | 36 | 36 |
| FAN CYCLING CONTROLS †† Close (kPa) Open (kPa) | 1758 ± 69 | | | | | | | | | |
| | 1103 ± 69 | | | | | | | | | |
| CONNECTIONS Suction, ODF (in.)*** Liquid, ODF (in.)*** Hot Gas Bypass, ODF (in.) | 5/8 | | | | | 2 1/8 | | | | |
| | 2 1/8 | | | | | 7/8 | | | | |
| | 5/8 | | | | | 5/8 | | | | |

LEGEND

Cu-Al — Copper Tube, Aluminum Fin
Cu-Cu — Copper Tube, Copper Fin
ODF — Outside Diameter, Female

*06E250 compressors have 4 cylinders; all others have 6.

†Circuit A compressor is lead on standard units; circuit B compressor is lead on optional single-circuit units.

**Capacity control steps listed are for constant volume units with no accessories. Refer to Minimum Outdoor-Air Operating Temperature and Unloading Sequences tables, pages 80 and 81, for additional system capacity information.

††On all 044-134 units, fan no. 3 and 4; also on 38AH074,084 (dual-circuit units only) and 38AH094,104, fans no. 5 and 6.

***For single-circuit units, suction ODF is 2 5/8 in. and liquid ODF is 1 1/8 inches. Single circuit units have a single suction line and single liquid line. No field modification is required.

NOTES:

1. Certified dimensional drawings available on request.
2. Equivalent connection values in mm are as follows:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |



50 Hz, SI (cont)

| UNIT 38AH | 094 | | 104 | | 124 | | 134 | | | | | | | |
|---|-----------|-------|-----------|-------|---------------|-------|----------------------|-------|-----------|-------|-----------|-------|-----------|--|
| | | | | | 124A | 124B | 134A | 134B | | | | | | |
| NOMINAL CAPACITY (kW) | 274 | | 305 | | 175.5 | 175.5 | 175.5 | 214.5 | | | | | | |
| OPERATING WEIGHT WITH REFRIGERANT (Approx.) (kg) | | | | | | | | | | | | | | |
| Cu-Al | 2308 | | 2465 | | 1647* | 1647* | 1647* | 1759* | | | | | | |
| Cu-Cu | 2637 | | 2794 | | 1843* | 1843* | 1843* | 1843* | | | | | | |
| SHIPPING WEIGHT WITH COIL PROTECTION AND SKID (Approx.) (kg) | | | | | | | | | | | | | | |
| Cu-Al | 2554 | | 2717 | | 1860* | 1860* | 1860* | 1851 | | | | | | |
| Cu-Cu | 2883 | | 3046 | | 1968* | 1968* | 1968* | 2040 | | | | | | |
| TYPICAL OPERATING REFRIGERANT Charge (Approx.) (kg) | 67.1 | | 61.2 | | 40 | 40 | 40 | 47.2 | | | | | | |
| Qty of Circuits | 2 | | 2 | | 1 | 1 | 1 | 1 | | | | | | |
| COMPRESSOR Type...r/s (Qty Cylinder) Compressor† Model No. 06E Oil Charge (L) Capacity Capacity (%) (Approx.) Circuit Control Steps** | | | | | R-22 | | | | | | | | | |
| | | | | | Reciprocating | | Semi-Hermetic...24.3 | | | | | | | |
| | (6)A1 | (4)A2 | (6)B1 | (6)A1 | (4)A2 | (6)B1 | (6)B2 | (6)A1 | (6)A2 | (6)A1 | (6)A2 | (6)A1 | (6)A2 | |
| | -275 | -250 | -299 | -265 | -250 | -265 | -265 | -275 | -265 | -275 | -265 | -275 | -265 | |
| | 10 | 8 | 9 | 10 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| | 55 | 8 | 45 | 47 | 8 | 53 | 50 | 50 | 45 | 55 | 45 | 55 | 55 | |
| | 6 | | | | 8 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| CONDENSER FANS (4 Blade) Qty...Dia (mm) Airflow (L/s) Speed (R/s) Total Power (kW) | 6...762 | | 6...762 | | 4...762 | | 4...762 | | 4...762 | | 6...762 | | 6...762 | |
| | 24 544 | | 24 544 | | 16 520 | | 16 520 | | 16 520 | | 24 544 | | 24 544 | |
| | 15.8 | | 15.8 | | 15.8 | | 15.8 | | 15.8 | | 15.8 | | 15.8 | |
| | 9.4 | | 9.5 | | 6.4 | | 6.4 | | 6.4 | | 9.2 | | 9.2 | |
| CONDENSER COIL Rows...Fins per m Face Area (sq m) Storage Capacity (kg per circuit, approx.) at 40 C | 3...669.3 | | 3...669.3 | | 3...669.3 | | 3...669.3 | | 3...669.3 | | 3...669.3 | | 2...781.6 | |
| | 11.9 | | 11.9 | | 7.5 | | 7.5 | | 7.5 | | 7.5 | | 10.8 | |
| | 81 | | 81 | | 50 | | 50 | | 50 | | 50 | | 50 | |
| FAN CYCLING CONTROLS†† Close (kPa) Open (kPa) | | | | | 1758 ± 69 | | 1103 ± 69 | | | | | | | |
| CONNECTIONS Suction, ODF (in.) Liquid, ODF (in.) Hot Gas Bypass, ODF (in.) | 2 1/8 | | 2 1/8 | | 2 5/8 | | 2 5/8 | | 2 5/8 | | 2 5/8 | | 2 5/8 | |
| | 7/8 | | 7/8 | | 1 1/8 | | 1 1/8 | | 1 1/8 | | 1 1/8 | | 1 1/8 | |
| | 5/8 | | 5/8 | | 5/8 | | 5/8 | | 5/8 | | 5/8 | | 5/8 | |

LEGEND

Cu-Al — Copper Tube, Aluminum Fin
 Cu-Cu — Copper Tube, Copper Fin
 ODF — Outside Diameter, Female

*Includes piping and trim kit.

†Compressor A1 is lead compressor on all circuits except circuit B on units 38AH094 and 104. Compressor B1 is lead on circuit B on units 38AH094 and 104. Compressors are shipped with minimum oil charge.

**Capacity control steps listed are for constant volume units with no accessories. Refer to Minimum Outdoor-Air Operating Temperature and Unloading Sequences tables, pages 80 and 81, for additional system capacity information.

††On all 044-134 units, fan no. 3 and 4; also on 38AH074,084 (dual-circuit units only) and 38AH094,104, fans no. 5 and 6.

NOTES:

1. Unit 38AH124 consists of one 124A module and one 124B module. Unit 38AH134 consists of one 134A module and one 134B module.

2. Certified dimensional drawings available on request.
3. Equivalent connection values in mm are as follows:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |

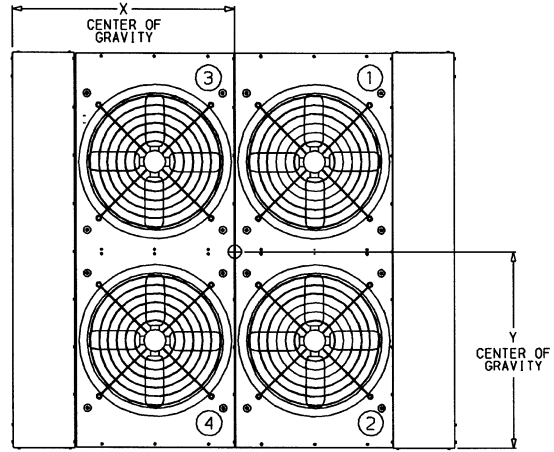
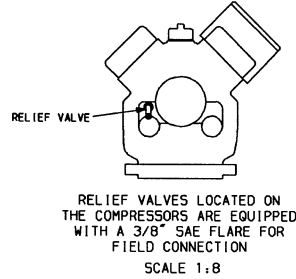
4. Lead and lag circuits and compressors are as follows:

| UNIT 38AH | 094 | 104 | 124 | 134 |
|------------------|-----|-----|-------------|-------------|
| LEAD CIRCUIT | A | A | Module 124A | Module 134A |
| Compressor, Lead | A1 | A1 | A1 | A1 |
| Compressor, Lag | A2 | A2 | A2 | A2 |
| LAG CIRCUIT | B | B | Module 124B | Module 134B |
| Compressor, Lead | B1 | B1 | A1 | A1 |
| Compressor, Lag | *** | B2 | A2 | A2 |

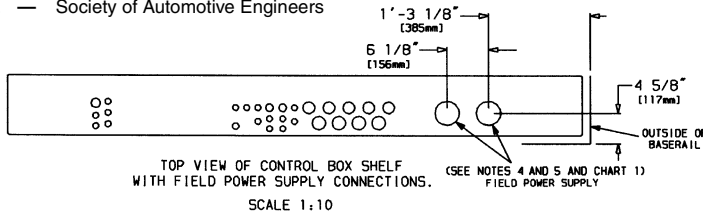
***Circuit has only one compressor.

SIZES 044-064 (See Page 16 for Corner Weights)

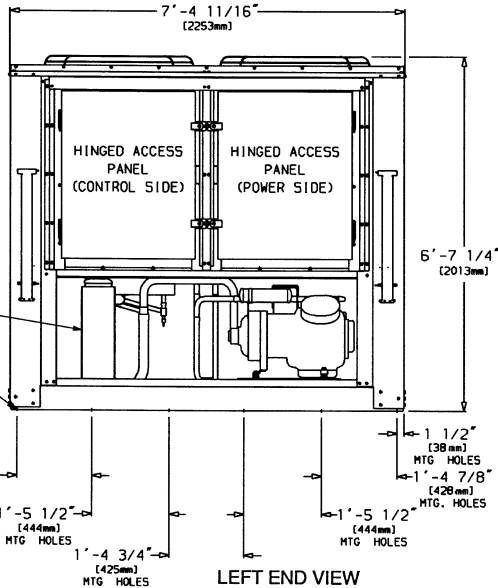
| UNIT | DIMENSION Y | DIMENSION X |
|------|---|--|
| 38AH | | |
| 044 | 3'-2 ³ / ₄ " [984 mm] | 4'-1 ¹ / ₂ " [1232 mm] |
| 044C | 3'-3 ¹ / ₈ " [994 mm] | 4'-9 ⁹ / ₁₆ " [1234 mm] |
| 054 | 3'-2 ¹ / ₂ " [978 mm] | 4'-3 ¹ / ₁₆ " [1224 mm] |
| 054C | 3'-3" [991 mm] | 4'-3 ³ / ₈ " [1229 mm] |
| 064 | 3'-2 ¹ / ₂ " [978 mm] | 4'-1 ¹ / ₂ " [1232 mm] |
| 064C | 3'-3 ³ / ₁₆ " [995 mm] | 4'-5 ⁸ / ₁₆ " [1235 mm] |



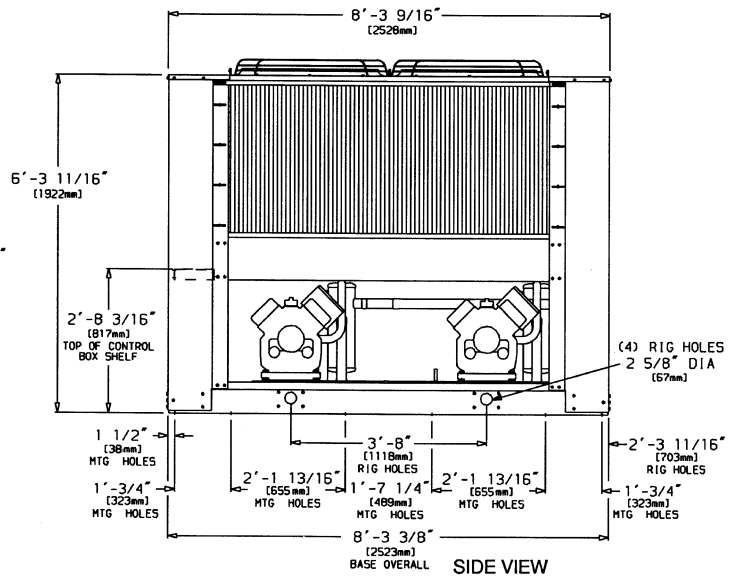
- LEGEND**
- C — Copper Fin Coils
 - MTG — Mounting
 - SAE — Society of Automotive Engineers



TOP VIEW OF CONTROL BOX SHELF WITH FIELD POWER SUPPLY CONNECTIONS. (SEE NOTES 4 AND 5 AND CHART 1) FIELD POWER SUPPLY



LEFT END VIEW



SIDE VIEW

CHART 1A. FIELD POWER SUPPLY CONNECTIONS (60 Hz)

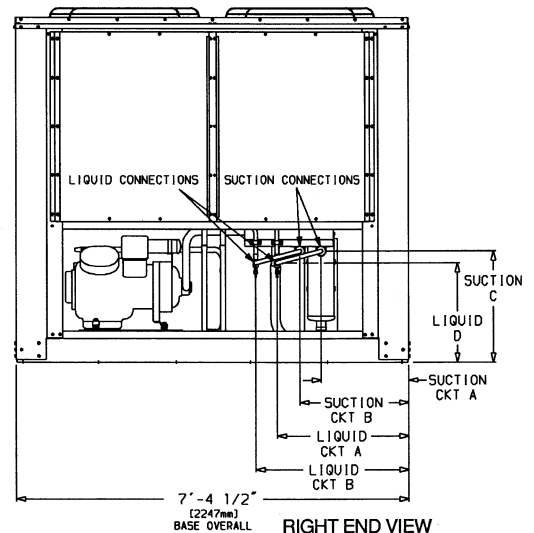
| UNIT | VOLTAGE | DIA (in.) | QTY. |
|-------------|---------|-----------|------|
| 044,054 | 208/230 | 3 | 1 |
| 064 | | 2 | 2 |
| 044,054,064 | 460 | 2 | 1 |
| 044,054,064 | 575 | 2 | 1 |
| 044,054,064 | 380 | 2 | 1 |

CHART 1B. FIELD POWER SUPPLY CONNECTIONS (50 Hz)

| UNIT | VOLTAGE | DIAMETER | QTY. |
|---------|---------|---|------|
| 044 | 230 | 3 ⁵ / ₈ " [92 mm] | 1 |
| 044,054 | 346 | 2 ¹ / ₂ " [63 mm] | 1 |
| 064 | 346 | 3 ⁵ / ₈ " [92 mm] | 1 |
| 044,054 | 380/415 | 2 ¹ / ₂ " [63 mm] | 1 |
| 064 | 380/415 | 3 ⁵ / ₈ " [92 mm] | 1 |

NOTES:

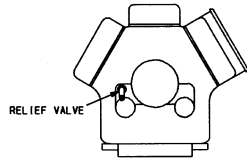
- The approximate operating weight of the unit is:
 - 38AH044 → 3259 lb (1480 kg)
 - 38AH044C → 3547 lb (1609 kg)
 - 38AH054 → 3309 lb (1501 kg)
 - 38AH054C → 3597 lb (1632 kg)
 - 38AH064 → 3565 lb (1617 kg)
 - 38AH064C → 3998 lb (1813 kg)
- Unit must have clearances for airflow as follows:
 - Top — Do not restrict in any way.
 - Ends — 5 ft [153 cm]
 - Sides — 6 ft [183 cm]
- Mounting holes may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators.
- Two 51 mm (2 in.) dia holes are recommended for parallel conductors on 044 (230-V) units.
- Circled numerals in Top View refer to condenser fans; refer to Electrical Data section, Fans table, pages 68 and 71 and Wiring Diagram book.
- If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.



RIGHT END VIEW

SIZES 074,084 (See Page 16 for Corner Weights)

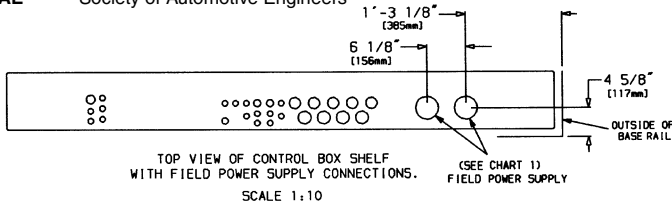
| UNIT | DIMENSION Y | DIMENSION X |
|------|---|---|
| 38AH | | |
| 074 | 3'-3 ¹ / ₈ " [994 mm] | 4'-8 ¹³ / ₁₆ " [1443 mm] |
| 074C | 3'-3 ⁵ / ₈ " [1006 mm] | 4'-8 ¹ / ₈ " [1425 mm] |
| 084 | 3'-3" [991 mm] | 4'-9" [1448 mm] |
| 084C | 3'-3 ¹¹ / ₁₆ " [1008 mm] | 4'-8" [1422 mm] |



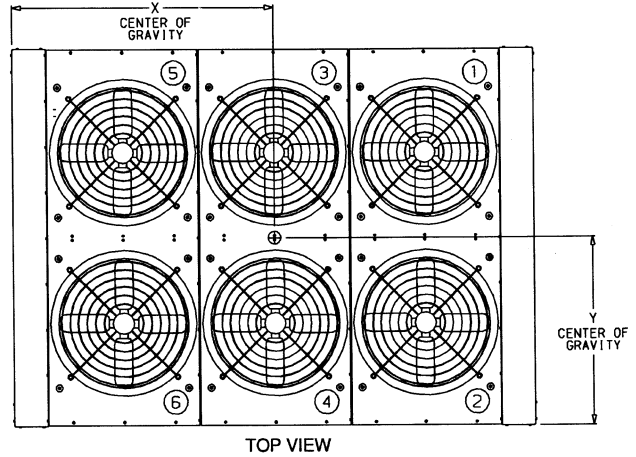
RELIEF VALVES LOCATED ON THE COMPRESSORS ARE EQUIPPED WITH A 3/8" SAE FLARE FOR FIELD CONNECTION
SCALE 1:8

- LEGEND**
- C — Copper Fin Coils
 - MTG — Mounting
 - SAE — Society of Automotive Engineers

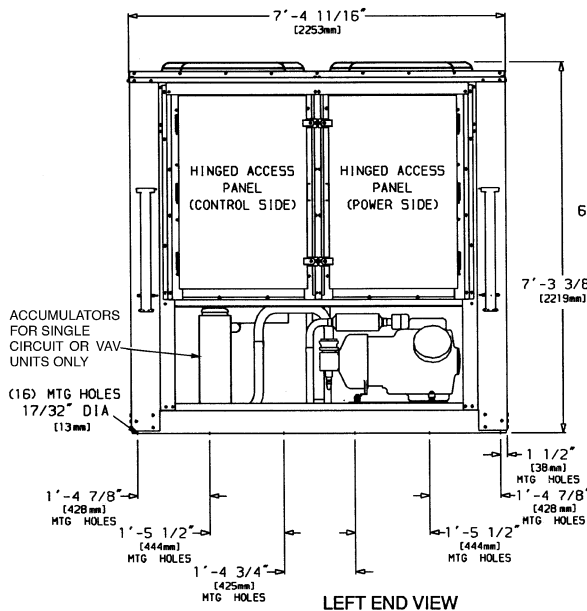
CONTROL BOX END



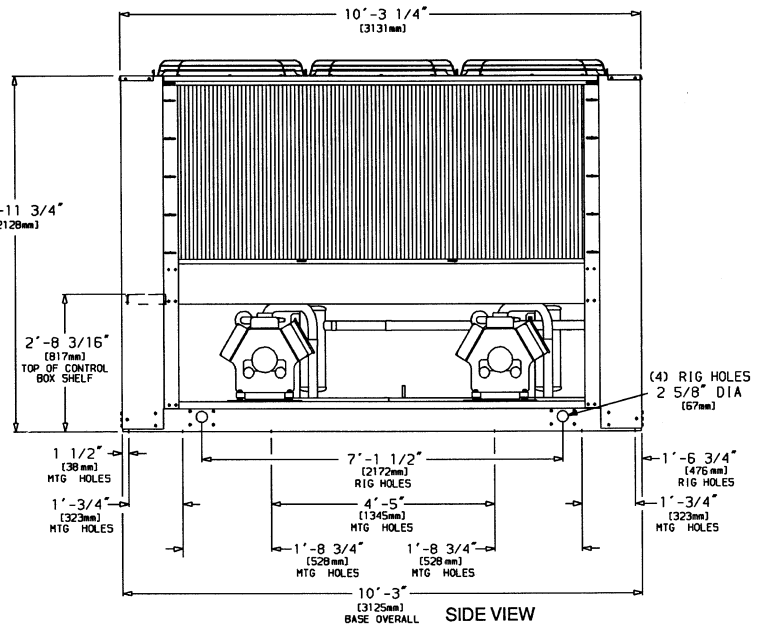
TOP VIEW OF CONTROL BOX SHELF WITH FIELD POWER SUPPLY CONNECTIONS.
SCALE 1:10



TOP VIEW



LEFT END VIEW



SIDE VIEW

CHART 1A, FIELD POWER SUPPLY CONNECTIONS (60 Hz)

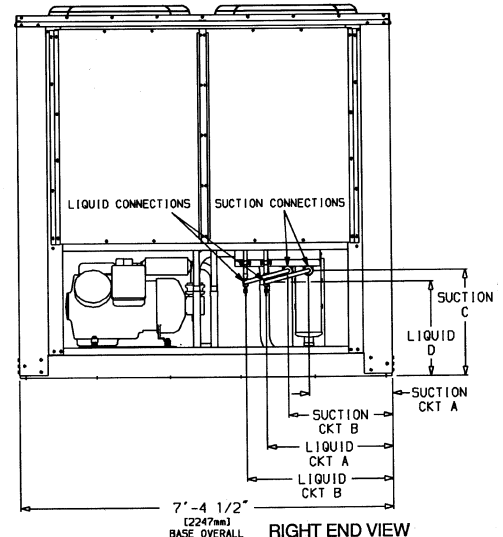
| UNIT | VOLTAGE | DIA (in.) | QTY |
|---------|---------|-------------------------------|-----|
| 074 | 208/230 | 2 ¹ / ₂ | 2 |
| 084 | | 3 ⁵ / ₈ | 2 |
| 074 | 460 | 2 ¹ / ₂ | 1 |
| 084 | | 3 ⁵ / ₈ | 1 |
| 074,084 | 575 | 2 ¹ / ₂ | 1 |
| 074,084 | 380 | 3 ⁵ / ₈ | 1 |

CHART 1B, FIELD POWER SUPPLY CONNECTIONS (50 Hz)

| UNIT | VOLTAGE | DIAMETER | QTY |
|---------|---------|---|-----|
| 074,084 | 346 | 3 ⁵ / ₈ " [92 mm] | 1 |
| 074,084 | 380/415 | 3 ⁵ / ₈ " [92 mm] | 1 |

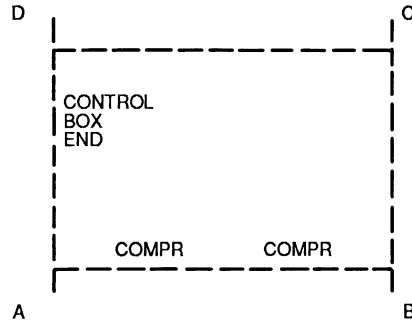
NOTES:

- The approximate operating weight of the unit is:
 38AH074 → 3812 lb (1729 kg)
 38AH074C → 4229 lb (1918 kg)
 38AH084 → 4057 lb (1840 kg)
 38AH084C → 4735 lb (2148 kg)
- Unit must have clearances for airflow as follows:
 Top — Do not restrict in any way.
 Ends — 5 ft [153 cm]
 Sides — 6 ft [183 cm]
- Mounting holes may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators.
- Circled numerals in Top View refer to condenser fans; refer to Electrical Data section, Fans table, page 68 and 71 and Wiring Diagram book.
- If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.



RIGHT END VIEW

Dimensions (cont)



OPERATIONAL CORNER WEIGHTS WITH REFRIGERANT CHARGE (Approximate) — Kg

| UNIT 38AH | TOTAL WEIGHT | OPERATIONAL CORNER WEIGHT | | | |
|-------------|--------------|---------------------------|-----|-----|-----|
| | | A | B | C | D |
| 044 | 1480 | 426 | 405 | 316 | 332 |
| 044C | 1609 | 460 | 438 | 347 | 364 |
| 054 | 1501 | 437 | 411 | 316 | 337 |
| 054C | 1632 | 469 | 444 | 350 | 369 |
| 064 | 1617 | 462 | 459 | 347 | 350 |
| 064C | 1813 | 510 | 508 | 397 | 399 |
| 074 | 1729 | 520 | 447 | 352 | 410 |
| 074C | 1918 | 577 | 481 | 391 | 470 |
| 084 | 1840 | 553 | 476 | 375 | 436 |
| 084C | 2148 | 646 | 538 | 438 | 526 |

C — Copper Fin Coils

OPERATIONAL CORNER WEIGHTS WITH REFRIGERANT CHARGE (Approximate) — Lb

| UNIT 38AH | TOTAL WEIGHT | OPERATIONAL CORNER WEIGHT | | | |
|-------------|--------------|---------------------------|------|-----|------|
| | | A | B | C | D |
| 044 | 3259 | 939 | 893 | 695 | 732 |
| 044C | 3547 | 1013 | 967 | 765 | 802 |
| 054 | 3309 | 964 | 905 | 697 | 742 |
| 054C | 3597 | 1034 | 978 | 771 | 814 |
| 064 | 3565 | 1018 | 1011 | 765 | 771 |
| 064C | 3998 | 1125 | 1117 | 874 | 879 |
| 074 | 3812 | 1146 | 986 | 777 | 903 |
| 074C | 4229 | 1272 | 1059 | 862 | 1035 |
| 084 | 4057 | 1220 | 1049 | 827 | 961 |
| 084C | 4735 | 1425 | 1186 | 965 | 1159 |

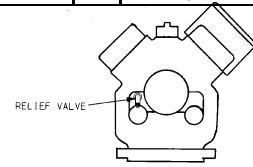
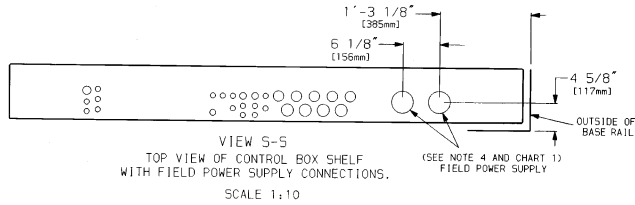
C — Copper Fin Coils

UNIT 38AH094

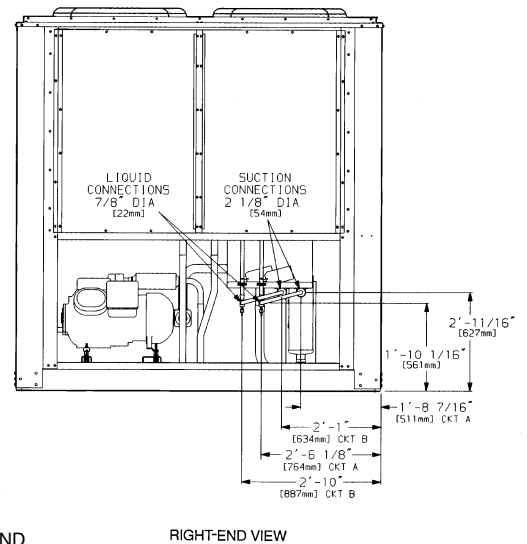
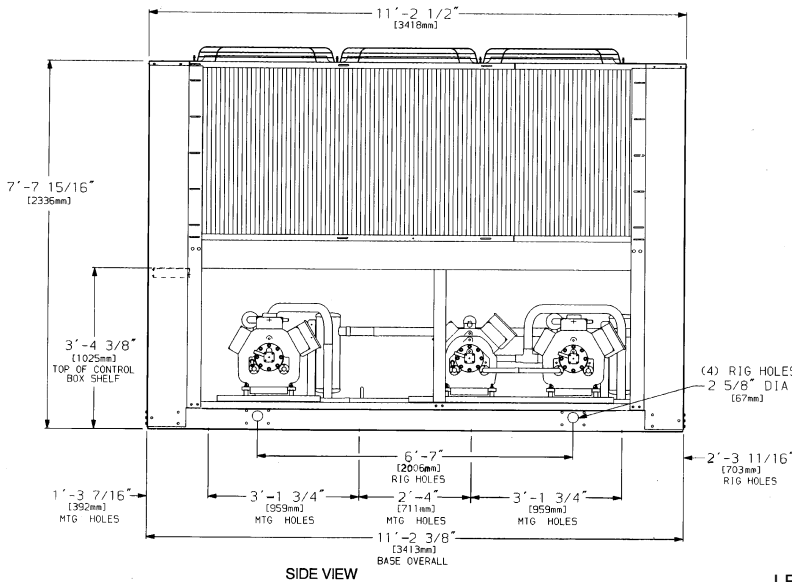
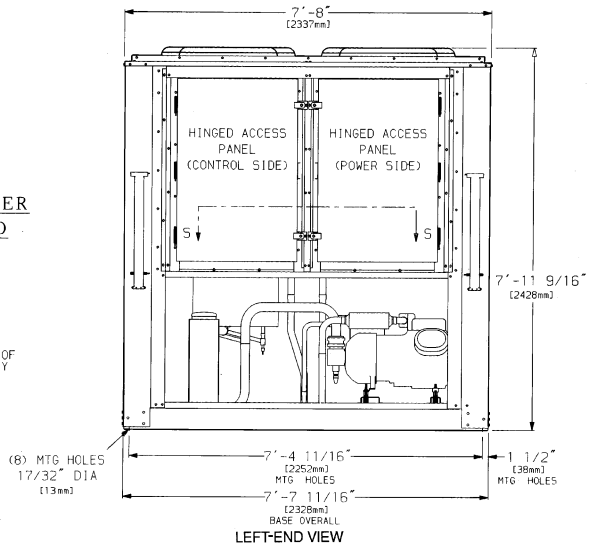
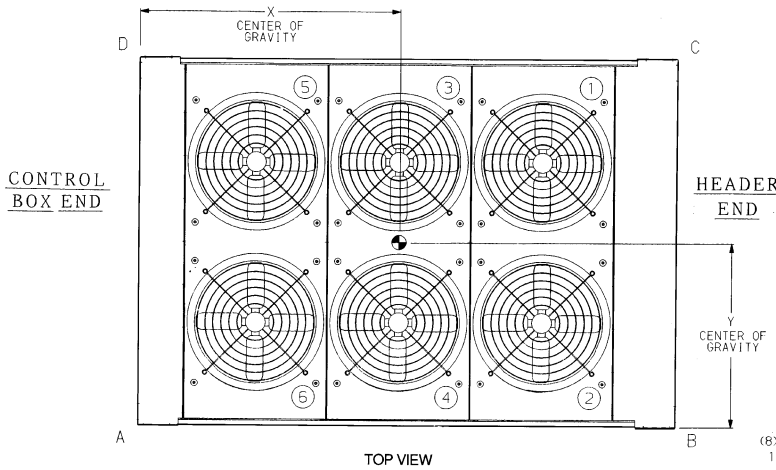
CHART 1, FIELD POWER SUPPLY CONNECTIONS

| UNIT 38AH | DIMENSIONS ft-in. [mm] | | OPERATIONAL CORNER WEIGHTS — lb [kg] | | | |
|-----------|---------------------------|-----------|---|-------------|------------|-----------|
| | X | Y | A | B | C | D |
| 094 | 5-6 [1676] | 2-7 [787] | 1114 [505] | 2192 [994] | 1182 [536] | 601 [273] |
| 094C | 5-6 [1676] | 2-7 [787] | 1273 [577] | 2504 [1136] | 1350 [612] | 686 [311] |

| UNIT | VOLTAGE | Hz | DIAMETER in. [mm] | QUANTITY |
|------|----------------|----|------------------------------------|----------|
| 094 | 346 380/415 | 50 | 3 ⁵ / ₈ [92] | 1 |
| | 208/230 | 60 | 3 ⁵ / ₈ [92] | 2 |
| | 460,575,380 | 60 | 3 ⁵ / ₈ [92] | 1 |



RELIEF VALVES LOCATED ON
COMPRESSORS A2 AND B1 ARE EQUIPPED
WITH A 3/8" SAE FLARE FOR
FIELD CONNECTION
SCALE 1:8



NOTES:

- The approximate operating weight of the unit is:
38AH094 — 5088 lb [2308 kg]
38AH094C — 5813 lb [2637 kg]
- Unit must have clearances for airflow as follows:
Top — Do not restrict in any way.
Ends — 5 ft [153 cm]
Sides — 6 ft [183 cm]
- Mounting holes may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators.
- Circled numerals in Top View refer to condenser fans; refer to Electrical Data section, Fans table, pages 68 and 71 and Wiring Diagram book.
- If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.

LEGEND

- C** — Copper Fin Coils
- MTG** — Mounting
- SAE** — Society of Automotive Engineers

Dimensions (cont)

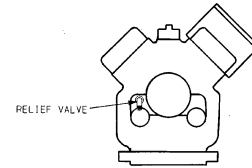
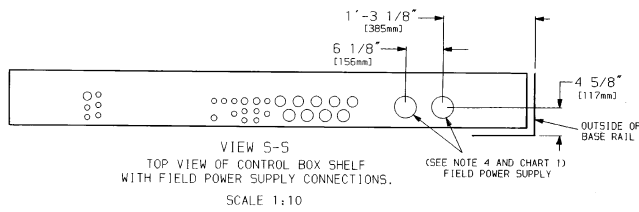


UNIT 38AH104

| UNIT | DIMENSIONS ft-in. [mm] | | OPERATIONAL CORNER WEIGHTS — lb [kg] | | | |
|------|------------------------|---------------|--------------------------------------|-------------|------------|-----------|
| | X | Y | A | B | C | D |
| 104 | 5-3 [1600] | 2-9 1/2 [851] | 1240 [562] | 2138 [970] | 1302 [591] | 755 [342] |
| 104C | 5-3 [1600] | 2-9 1/2 [851] | 1405 [637] | 2423 [1099] | 1476 [670] | 856 [388] |

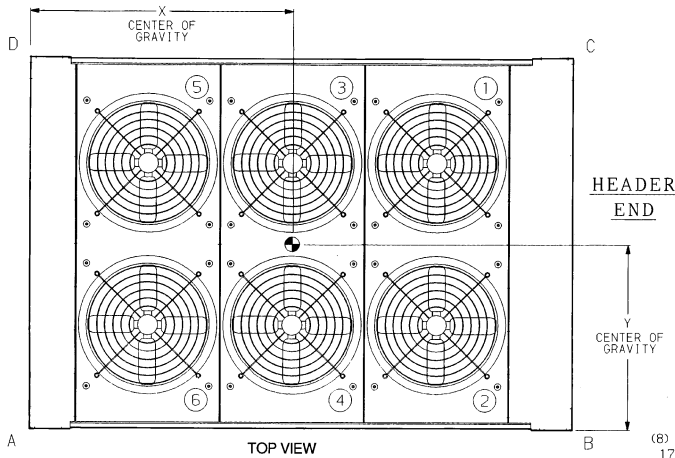
LEGEND

C — Copper Fin Coils
 MTG — Mounting
 SAE — Society of Automotive Engineers



RELIEF VALVES LOCATED ON COMPRESSORS A2 AND B2 ARE EQUIPPED WITH A 3/8" SAE FLARE FOR FIELD CONNECTION
 SCALE 1:8

CONTROL BOX END



HEADER END

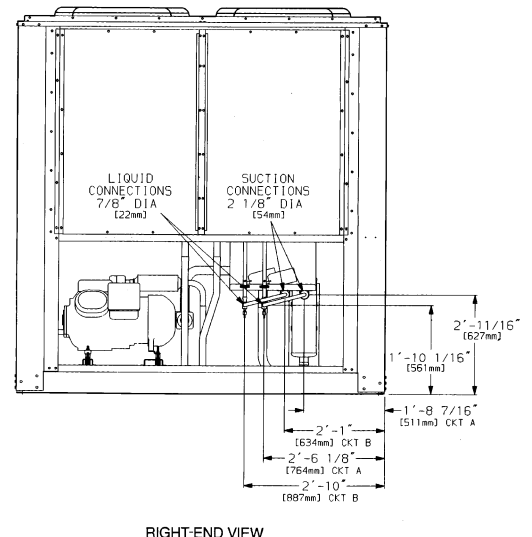
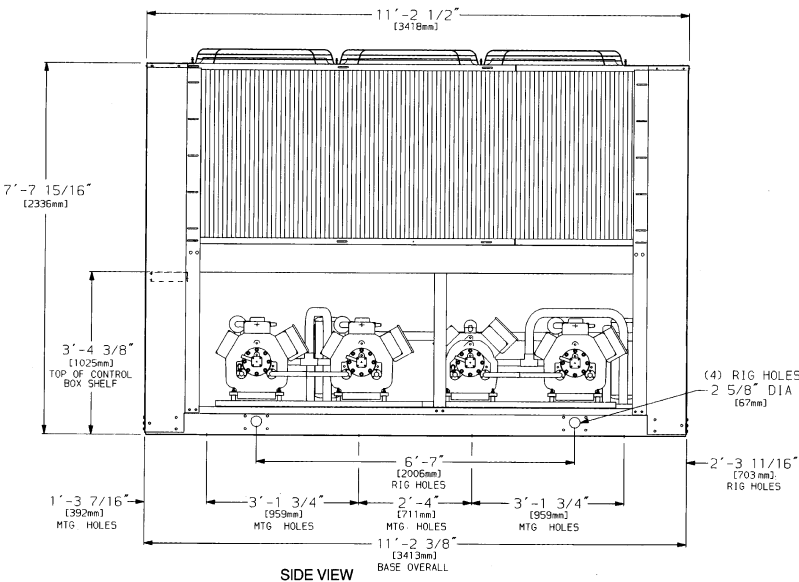
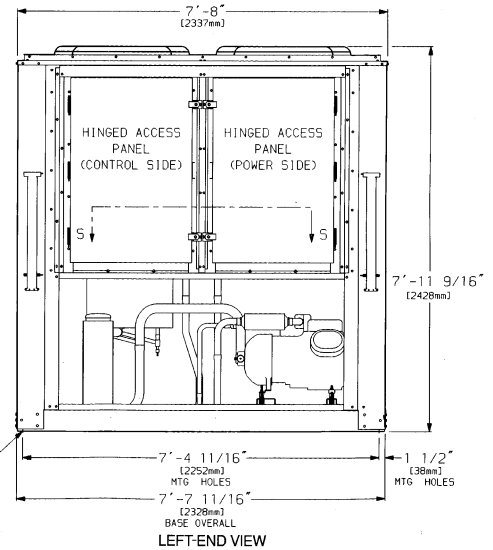


CHART 1A, FIELD POWER SUPPLY CONNECTIONS (60 Hz)

| UNIT 38AH | VOLTAGE | Hz | DIAMETER — in. (mm) | QTY |
|-----------|---------------|----|---------------------|-----|
| 104 | 208/230 | 60 | 3 5/8 (92) | 2 |
| | 460, 575, 380 | 60 | 3 5/8 (92) | 1 |
| | 346, 380/415 | 50 | 3 5/8 (92) | 1 |

CHART 1B, FIELD POWER SUPPLY CONNECTIONS (50 Hz)

| UNIT 38AH | VOLTAGE | Hz | DIAMETER — in. (mm) | QTY |
|-----------|---------------|----|---------------------|-----|
| 104 | 208/230 | 60 | 3 5/8 (92) | 2 |
| | 460, 575, 380 | 60 | 3 5/8 (92) | 1 |
| | 346, 380/415 | 50 | 3 5/8 (92) | 1 |

NOTES:

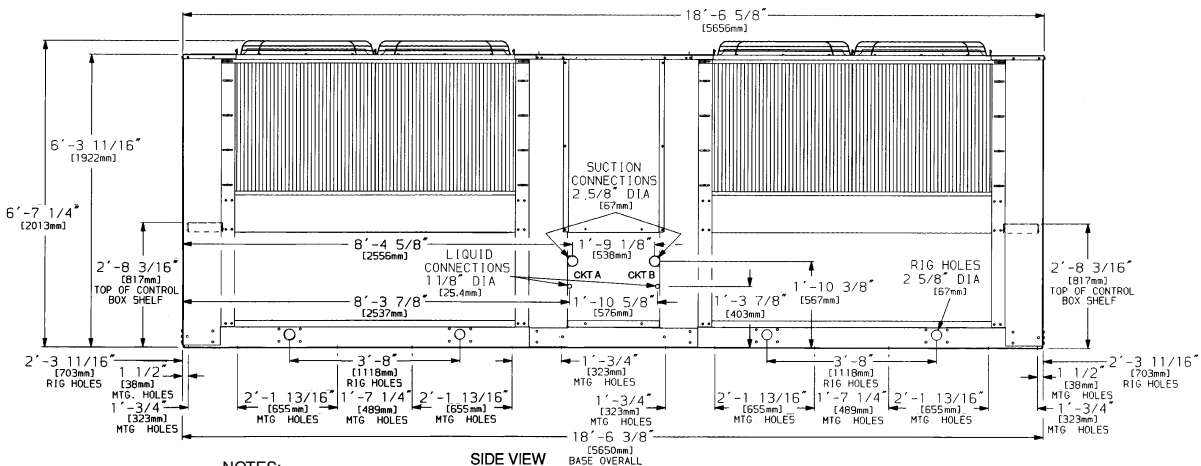
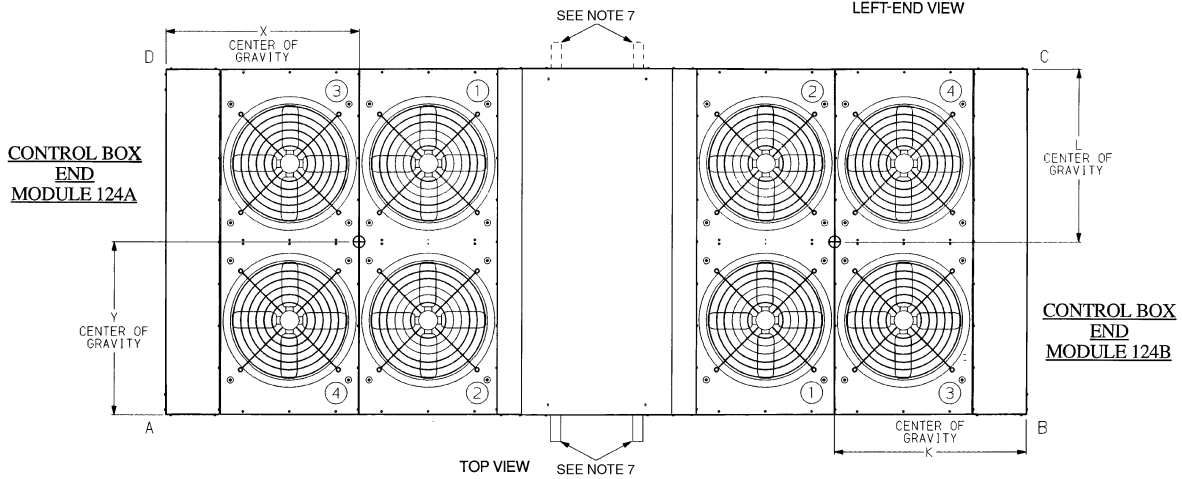
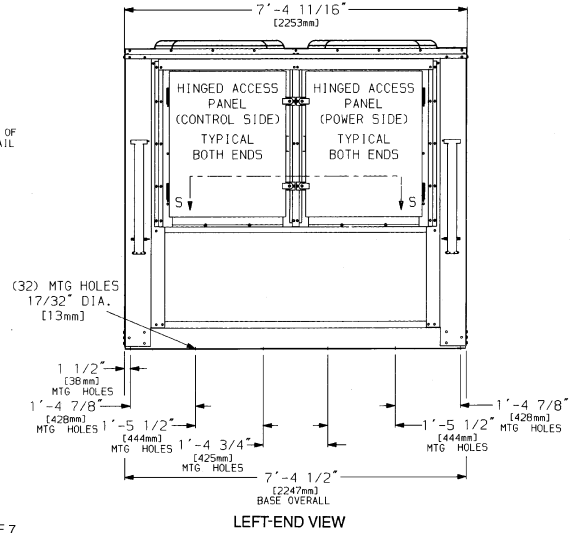
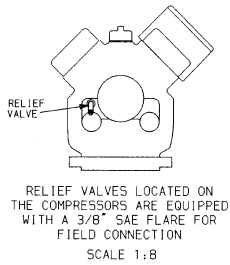
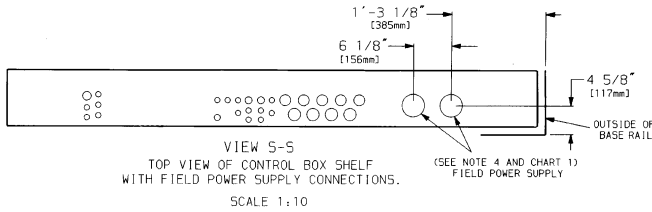
- The approximate operating weight of the unit is:
 38AH-104— 5435 lb (2465 kg)
 38AH-104-C 6160 lb (2794 kg)
- Unit must have clearances for airflow as follows:
 Top — Do not restrict in any way.
 Ends — 5 ft [1524 mm]
 Sides — 6 ft [1829 mm]
- Mounting holes may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators.
- Two 3 5/8" (92-mm) dia hole are recommended for parallel conductors on 208/230 v units.
- Circled numerals in Top View refer to condenser fans by position.
- If spring isolators are used, a perimeter support channel between the unit and the isolators is recommended.

UNIT 38AH124

| UNIT 38AH MODULE | DIMENSIONS ft-in. [mm] | | | | OPERATIONAL CORNER WEIGHTS — lb [kg] | | | |
|------------------|--|---------------------------------------|--|---------------------------------------|--------------------------------------|------------|-----------|-----------|
| | X | Y | K | L | A | B | C | D |
| 124A | 4-1 ⁵ / ₈ [1260] | 3-2 ¹ / ₈ [968] | — | — | 1037 [470] | 1030 [467] | 779 [353] | 785 [356] |
| 124B | — | — | 4-1 ⁵ / ₈ [1260] | 3-2 ¹ / ₈ [968] | — | — | — | — |
| 124A-C | 4-1 ⁵ / ₈ [1260] | 3-2 ⁷ / ₈ [987] | — | — | 1144 [519] | 1137 [516] | 889 [403] | 894 [406] |
| 124B-C | — | — | 4-1 ⁵ / ₈ [1260] | 3-2 ⁷ / ₈ [987] | — | — | — | — |

CHART 1, FIELD POWER SUPPLY CONNECTIONS

| UNIT 38AH MODULE | VOLTAGE | Hz | DIAMETER in. [mm] | QUANTITY |
|------------------|--------------|----|------------------------------------|----------|
| 124A 124B | 208/230 | 60 | 3 ⁵ / ₈ | 1 |
| | 460,575,380 | 60 | 2 ¹ / ₂ | 1 |
| | 346, 380/415 | 50 | 3 ⁵ / ₈ [92] | 1 |



LEGEND

C — Copper Fin Coils
MTG — Mounting
SAE — Society of Automotive Engineers

- NOTES:**
- The approximate operating weight of the unit is:
 38AH124 — 7260 lb [3293 kg]
 38AH124C — 8126 lb [3686 kg]
 - Unit must have clearances for airflow as follows:
 Top — Do not restrict in any way.
 Ends — 5 ft [153 cm]
 Sides — 6 ft [183 cm]
 - Mounting holes may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators.

- Circled numerals in Top View refer to condenser fans; refer to Electrical Data section, Fans table, pages 68 and 71 and Wiring Diagram book.
- If spring isolators are used, a perimeter support channel between the assembled unit and the isolators is required. Do not support each module separately.
- Each module must be rigged into position separately. The unit must not be rigged after modules have been connected.
- Suction and liquid connections can exit on either side of the unit.
- Field power supply connections are required for each module.

Dimensions (cont)

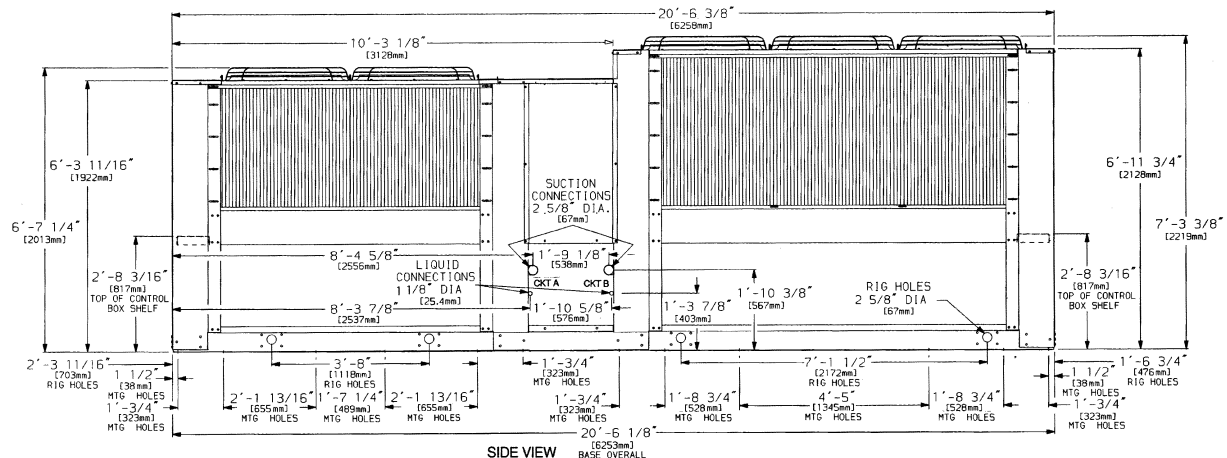
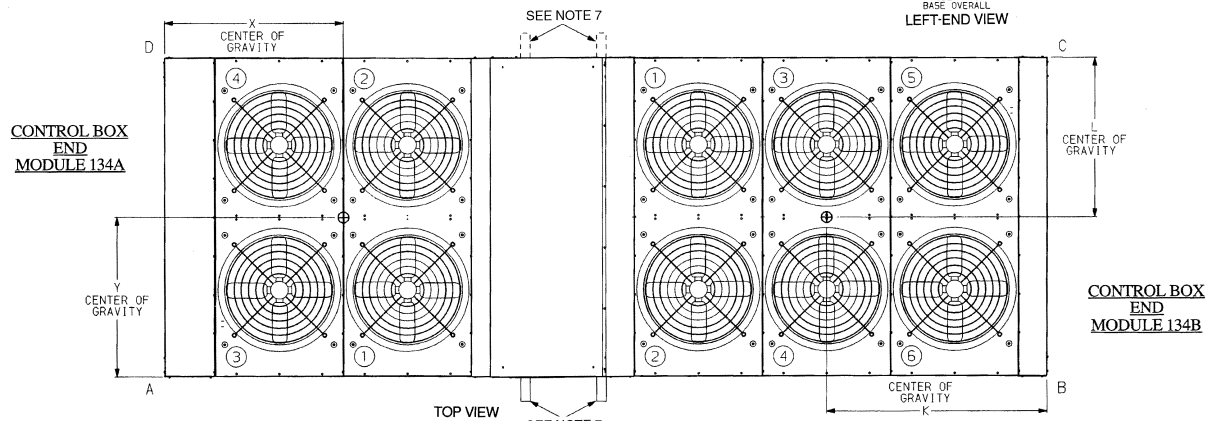
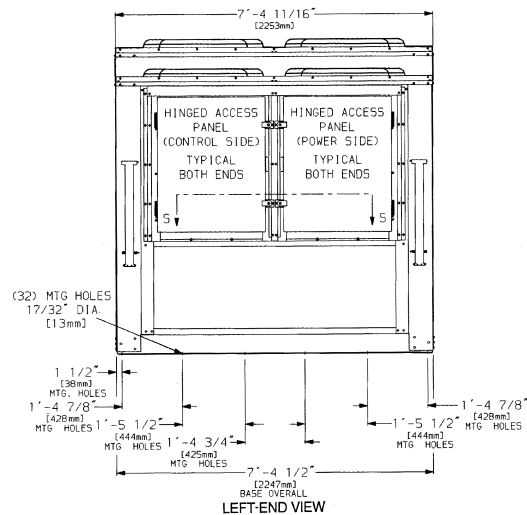
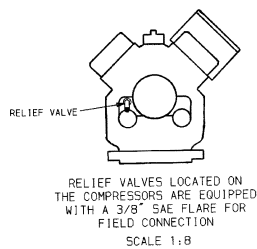
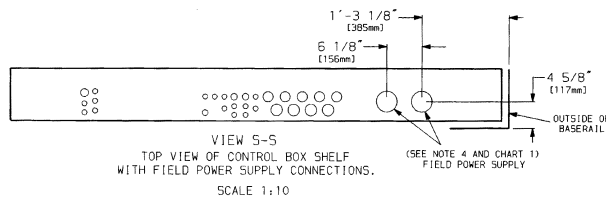


UNIT 38AH134

| UNIT 38AH MODULE | DIMENSIONS ft-in. [mm] | | | | OPERATIONAL CORNER WEIGHTS — lb [kg] | | | |
|------------------|--|---------------------------------------|--|--|--------------------------------------|------------|-----------|------------|
| | X | Y | K | L | A | B | C | D |
| 134A | 4-1 ⁵ / ₈ [1260] | 3-2 ¹ / ₈ [968] | — | — | 1037 [470] | 1030 [467] | 779 [353] | 785 [356] |
| 134B | — | — | 4-8 ⁷ / ₈ [1445] | 3-3 ¹ / ₈ [994] | 1167 [529] | 997 [452] | 789 [358] | 924 [419] |
| 134A-C | 4-1 ⁵ / ₈ [1260] | 3-2 ⁷ / ₈ [987] | — | — | 1144 [519] | 1137 [516] | 889 [403] | 894 [406] |
| 134B-C | — | — | 4-8 ¹ / ₈ [1426] | 3-3 ³ / ₄ [1010] | 1293 [587] | 1080 [490] | 874 [396] | 1047 [475] |

CHART 1, FIELD POWER SUPPLY CONNECTIONS

| UNIT 38AH MODULE | VOLTAGE | Hz | DIAMETER in. [mm] | QUANTITY |
|------------------|--------------|----|------------------------------------|----------|
| 134A | 208/230 | 60 | 3 ⁵ / ₈ | 1 |
| | 460,575,380 | 60 | 2 ¹ / ₂ | 1 |
| 134B | 208/230 | 60 | 2 ¹ / ₂ | 2 |
| | 460,575 | 60 | 2 ¹ / ₂ | 1 |
| | 380 | 60 | 3 ⁵ / ₈ | 1 |
| 134A 134B | 346, 380/415 | 50 | 3 ⁵ / ₈ [92] | 1 |



LEGEND

- C — Copper Fin Coils
- MTG — Mounting
- SAE — Society of Automotive Engineers

NOTES:

1. The approximate operating weight of the unit is:
38AH134 — 7507 lb [3405 kg]
38AH134C — 8357 lb [3791 kg]
2. Unit must have clearances for airflow as follows:
Top — Do not restrict in any way.
Ends — 5 ft [153 cm]
Sides — 6 ft [183 cm]
3. Mounting holes may be used to mount unit to concrete pad. They are not recommended for mounting unit to spring isolators.

4. Circled numerals in Top View refer to condenser fans; refer to Electrical Data section, Fans table, pages 68 and 71 and Wiring Diagram book.
5. If spring isolators are used, a perimeter support channel between the assembled unit and the isolators is required. Do not support each module separately.
6. Each module must be rigged into position separately. The unit must not be rigged after modules have been connected.
7. Suction and liquid connections can exit on either side of the unit.
8. Field power supply connections are required for each module.

Selection procedure



I Determine required capacity, saturated suction temperature (SST) at the compressors, and the temperature of the air entering the condensing unit.

Given:

- Cooling Load 625,000 Btuh
- Saturated suction temperature 40 F
- Entering-air temperature 95 F

II Enter the Condensing Unit Ratings table at the given saturated suction temperature and entering-air temperature for the required cooling capacity.

The 38AH064 unit has a cooling capacity of 634,000 Btuh at 40 F SST and 95 F entering-air temperature; the unit meets requirements according to the given conditions.

System selection procedure — 38AH044-134

System requirements can often be met by combining 38AH condensing units with one or two air handlers.

For systems with one air handler:

Use a personal computer and Carrier's **AHUBuilder®** Selection program to select a 39 series air handler with direct-expansion (DX) coils. Enter the software program and input your job requirements. From the list presented, select a 38AH condensing unit that you estimate will meet capacity requirements. For sizes 044-084, you can select either a standard dual-circuit unit (designated D) or an optional single-circuit manifolded unit (designated S). All other sizes have dual circuits only.

After you have selected a 38AH unit, you can check its performance with one or several DX coils. From the DX coil list presented on the screen, match the 38AH with any coil or all coils. The program calculates the combined performance of the condensing unit and each DX coil and presents the resulting system capacities and operating temperatures. Matching thermostatic expansion valves and nozzles for the DX coils are automatically selected and displayed.

For systems with two air handlers:

Use a personal computer and Carrier's **AHUBuilder®** selection software to select a 39 series air handler with direct-expansion (DX) coils.

For the first air handler, enter the AHU selection program and input the job requirements. To choose a condensing unit, select the "Specify Your Own" option. The program asks you for condensing unit capacities at 30 F and 50 F SST. See the Condensing Unit Circuit and Module Ratings tables on pages 25-28, 32-40, 47-53 and 60-66 in this book, and enter the capacities from condenser circuit A or B (remember to use the correct Air Temperature Entering Condenser column when locating the circuit capacities).

For the second air handler, repeat the procedure to select the second DX coil for the condenser circuit (A or B) not used in the first selection.

Performance data



CONDENSING UNIT RATINGS, 60 Hz English

| 38AH044 | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 305.0 | 290.0 | 274.0 | 258.0 | 244.0 | 228.0 | 212.0 |
| | kW | 30.2 | 31.0 | 31.6 | 32.0 | 32.3 | 32.5 | 32.6 |
| | SDT | 107.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 |
| 25 | TC | 348.0 | 332.0 | 316.0 | 299.0 | 283.0 | 267.0 | 250.0 |
| | kW | 31.8 | 32.7 | 33.5 | 34.1 | 34.7 | 35.1 | 35.3 |
| | SDT | 108.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 |
| 30 | TC | 392.0 | 375.0 | 359.0 | 342.0 | 324.0 | 308.0 | 291.0 |
| | kW | 33.5 | 34.5 | 35.4 | 36.2 | 36.9 | 37.5 | 38.1 |
| | SDT | 109.0 | 114.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 |
| 35 | TC | 439.0 | 421.0 | 404.0 | 386.0 | 368.0 | 351.0 | 332.0 |
| | kW | 35.0 | 36.1 | 37.2 | 38.3 | 39.1 | 39.9 | 40.6 |
| | SDT | 110.0 | 115.0 | 120.0 | 125.0 | 129.0 | 134.0 | 139.0 |
| 40 | TC | 488.0 | 470.0 | 452.0 | 433.0 | 414.0 | 395.0 | 376.0 |
| | kW | 36.5 | 37.8 | 39.0 | 40.2 | 41.3 | 42.3 | 43.1 |
| | SDT | 112.0 | 117.0 | 121.0 | 126.0 | 131.0 | 136.0 | 140.0 |
| 45 | TC | 540.0 | 521.0 | 502.0 | 482.0 | 461.0 | 442.0 | 422.0 |
| | kW | 37.9 | 39.4 | 40.8 | 42.1 | 43.4 | 44.6 | 45.6 |
| | SDT | 114.0 | 119.0 | 123.0 | 128.0 | 132.0 | 137.0 | 142.0 |
| 50 | TC | 596.0 | 575.0 | 554.0 | 533.0 | 511.0 | 490.0 | 469.0 |
| | kW | 39.3 | 40.9 | 42.5 | 44.0 | 45.5 | 46.8 | 48.0 |
| | SDT | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 139.0 | 143.0 |

| 38AH054 | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 357.0 | 342.0 | 325.0 | 309.0 | 293.0 | 277.0 | 261.0 |
| | kW | 36.4 | 37.2 | 38.0 | 38.5 | 38.9 | 39.3 | 39.5 |
| | SDT | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 |
| 25 | TC | 407.0 | 389.0 | 372.0 | 354.0 | 337.0 | 320.0 | 303.0 |
| | kW | 38.4 | 39.4 | 40.3 | 41.1 | 41.7 | 42.2 | 42.7 |
| | SDT | 111.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 | 141.0 |
| 30 | TC | 458.0 | 439.0 | 422.0 | 403.0 | 384.0 | 366.0 | 347.0 |
| | kW | 40.4 | 41.5 | 42.6 | 43.6 | 44.4 | 45.2 | 45.8 |
| | SDT | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 |
| 35 | TC | 512.0 | 493.0 | 473.0 | 454.0 | 434.0 | 414.0 | 395.0 |
| | kW | 42.4 | 43.7 | 45.0 | 46.1 | 47.1 | 48.0 | 48.9 |
| | SDT | 115.0 | 119.0 | 124.0 | 129.0 | 133.0 | 138.0 | 143.0 |
| 40 | TC | 568.0 | 548.0 | 527.0 | 506.0 | 486.0 | 465.0 | 444.0 |
| | kW | 44.5 | 45.9 | 47.2 | 48.5 | 49.8 | 50.9 | 51.9 |
| | SDT | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 140.0 | 144.0 |
| 45 | TC | 627.0 | 605.0 | 583.0 | 561.0 | 540.0 | 518.0 | 496.0 |
| | kW | 46.5 | 48.1 | 49.6 | 51.1 | 52.5 | 53.8 | 55.0 |
| | SDT | 119.0 | 123.0 | 127.0 | 132.0 | 137.0 | 140.0 | 146.0 |
| 50 | TC | 688.0 | 665.0 | 642.0 | 619.0 | 595.0 | 573.0 | — |
| | kW | 48.6 | 50.3 | 52.1 | 53.6 | 55.2 | 56.7 | — |
| | SDT | 121.0 | 125.0 | 130.0 | 134.0 | 139.0 | 143.0 | — |

| 38AH064 | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 439.0 | 421.0 | 403.0 | 384.0 | 367.0 | 349.0 | 331.0 |
| | kW | 44.3 | 45.3 | 46.1 | 47.0 | 47.6 | 48.2 | 48.7 |
| | SDT | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 |
| 25 | TC | 496.0 | 476.0 | 457.0 | 437.0 | 418.0 | 399.0 | 380.0 |
| | kW | 46.7 | 47.9 | 48.9 | 49.9 | 50.8 | 51.6 | 52.2 |
| | SDT | 111.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 139.0 |
| 30 | TC | 555.0 | 534.0 | 514.0 | 493.0 | 472.0 | 451.0 | 431.0 |
| | kW | 49.1 | 50.5 | 51.8 | 53.0 | 54.0 | 55.0 | 55.9 |
| | SDT | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 141.0 |
| 35 | TC | 616.0 | 595.0 | 573.0 | 550.0 | 529.0 | 506.0 | 485.0 |
| | kW | 51.6 | 53.2 | 54.7 | 56.0 | 57.2 | 58.4 | 59.5 |
| | SDT | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 137.0 | 142.0 |
| 40 | TC | 682.0 | 658.0 | 634.0 | 611.0 | 588.0 | 564.0 | 541.0 |
| | kW | 54.1 | 55.9 | 57.5 | 59.1 | 60.5 | 61.9 | 63.1 |
| | SDT | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 |
| 45 | TC | 749.0 | 725.0 | 699.0 | 674.0 | 650.0 | 625.0 | 600.0 |
| | kW | 56.6 | 58.6 | 60.4 | 62.3 | 63.8 | 65.4 | 66.9 |
| | SDT | 118.0 | 123.0 | 127.0 | 132.0 | 136.0 | 141.0 | 146.0 |
| 50 | TC | 822.0 | 794.0 | 768.0 | 741.0 | 715.0 | 688.0 | 662.0 |
| | kW | 59.2 | 61.3 | 63.5 | 65.4 | 67.3 | 69.0 | 70.6 |
| | SDT | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 143.0 | 148.0 |

| 38AH074 | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 567.1 | 547.5 | 526.9 | 506.2 | 485.6 | 464.9 | 444.3 |
| | kW | 57.2 | 58.3 | 59.5 | 60.4 | 61.3 | 62.1 | 62.8 |
| | SDT | 108.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 |
| 25 | TC | 634.2 | 613.6 | 590.9 | 569.2 | 547.5 | 526.9 | 505.2 |
| | kW | 60.3 | 61.7 | 63.1 | 64.3 | 65.3 | 66.4 | 67.3 |
| | SDT | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 133.0 | 138.0 |
| 30 | TC | 705.5 | 681.7 | 658.0 | 635.3 | 612.6 | 589.9 | 566.1 |
| | kW | 63.7 | 65.2 | 66.8 | 68.1 | 69.6 | 70.6 | 71.7 |
| | SDT | 111.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 139.0 |
| 35 | TC | 778.8 | 754.0 | 729.3 | 704.5 | 679.7 | 654.9 | 631.2 |
| | kW | 66.9 | 68.8 | 70.6 | 72.1 | 73.8 | 75.0 | 76.3 |
| | SDT | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 136.0 | 141.0 |
| 40 | TC | 856.3 | 830.5 | 803.6 | 777.8 | 750.9 | 724.1 | 699.3 |
| | kW | 70.3 | 72.4 | 74.4 | 76.2 | 77.9 | 79.5 | 81.1 |
| | SDT | 115.0 | 120.0 | 124.0 | 129.0 | 133.0 | 138.0 | 143.0 |
| 45 | TC | 939.9 | 912.0 | 882.1 | 854.2 | 826.3 | 797.4 | 769.5 |
| | kW | 73.8 | 76.0 | 78.3 | 80.4 | 82.4 | 84.1 | 85.9 |
| | SDT | 118.0 | 122.0 | 127.0 | 131.0 | 136.0 | 140.0 | 145.0 |
| 50 | TC | 1026.7 | 995.7 | 965.8 | 934.8 | 904.8 | 873.8 | 843.9 |
| | kW | 77.3 | 79.9 | 82.3 | 84.6 | 86.7 | 88.9 | 90.8 |
| | SDT | 120.0 | 124.0 | 129.0 | 133.0 | 138.0 | 142.0 | 147.0 |

| 38AH084 | | | | | | | | |
|---------|-----|--|--------|--------|--------|--------|--------|-------|
| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 646.3 | 623.4 | 600.5 | 577.7 | 556.9 | 534.0 | 513.3 |
| | kW | 67.9 | 69.3 | 70.5 | 71.8 | 72.8 | 73.8 | 74.7 |
| | SDT | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 |
| 25 | TC | 725.2 | 700.3 | 677.4 | 652.5 | 627.6 | 604.7 | 581.8 |
| | kW | 71.6 | 73.1 | 74.7 | 76.1 | 77.4 | 78.6 | 79.6 |
| | SDT | 113.0 | 118.0 | 123.0 | 128.0 | 132.0 | 138.0 | 142.0 |
| 30 | TC | 810.4 | 783.4 | 757.4 | 731.5 | 705.5 | 679.5 | 653.5 |
| | kW | 75.4 | 77.1 | 78.9 | 80.6 | 82.0 | 83.5 | 84.8 |
| | SDT | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 |
| 35 | TC | 898.7 | 869.6 | 842.6 | 813.5 | 786.5 | 757.4 | 730.4 |
| | kW | 79.1 | 81.2 | 83.3 | 85.1 | 86.8 | 88.4 | 90.0 |
| | SDT | 115.0 | 120.0 | 125.0 | 129.0 | 134.0 | 139.0 | 144.0 |
| 40 | TC | 991.2 | 960.0 | 930.9 | 899.8 | 870.7 | 840.6 | 810.4 |
| | kW | 83.1 | 85.4 | 87.6 | 89.8 | 91.8 | 93.6 | 95.4 |
| | SDT | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 |
| 45 | TC | 1087.8 | 1054.6 | 1022.4 | 990.2 | 958.0 | 926.8 | 893.5 |
| | kW | 87.2 | 89.9 | 92.3 | 94.7 | 96.8 | 98.9 | 101.0 |
| | SDT | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 | 142.0 | 147.0 |
| 50 | TC | 1188.6 | 1154.3 | 1119.0 | 1084.7 | 1050.4 | 1015.1 | 980.8 |
| | kW | 91.6 | 94.5 | 97.2 | 99.6 | 102.1 | 104.4 | 106.7 |
| | SDT | 122.0 | 126.0 | 131.0 | 135.0 | 140.0 | 144.0 | 149.0 |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (F)
- SST — Saturated Temperature Entering Compressor (F)
- TC — Gross Cooling Capacity (1000 Btu/h)



CONDENSING UNIT RATINGS, 60 Hz English (cont)

| 38AH094 | | | | | | | | |
|---------|--------|--|-------|-------|-------|-------|-------|-------|
| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 700 | 672 | 646 | 618 | 591 | 562 | 535 |
| | kW | 71.1 | 72.6 | 73.8 | 74.9 | 76.0 | 76.7 | 77.3 |
| | SDT(A) | 110 | 115 | 119 | 124 | 129 | 134 | 139 |
| | SDT(B) | 108 | 112 | 117 | 122 | 127 | 132 | 137 |
| | SCT(A) | 108 | 113 | 118 | 123 | 128 | 133 | 138 |
| SCT(B) | 106 | 111 | 116 | 121 | 126 | 131 | 136 | |
| 25 | TC | 785 | 757 | 727 | 699 | 670 | 641 | 612 |
| | kW | 75.1 | 76.8 | 78.5 | 79.9 | 81.1 | 82.3 | 83.1 |
| | SDT(A) | 112 | 116 | 121 | 126 | 130 | 135 | 140 |
| | SDT(B) | 109 | 113 | 118 | 123 | 128 | 133 | 138 |
| | SCT(A) | 109 | 114 | 119 | 124 | 129 | 134 | 139 |
| SCT(B) | 106 | 111 | 116 | 121 | 126 | 132 | 137 | |
| 30 | TC | 873 | 843 | 812 | 782 | 752 | 722 | 691 |
| | kW | 79.4 | 81.4 | 83.1 | 84.8 | 86.4 | 87.8 | 88.9 |
| | SDT(A) | 114 | 118 | 123 | 127 | 132 | 136 | 141 |
| | SDT(B) | 110 | 115 | 120 | 124 | 129 | 134 | 139 |
| | SCT(A) | 111 | 115 | 120 | 125 | 130 | 135 | 140 |
| SCT(B) | 107 | 112 | 117 | 122 | 127 | 132 | 137 | |
| 35 | TC | 965 | 934 | 901 | 869 | 837 | 805 | 772 |
| | kW | 83.7 | 85.9 | 88.0 | 89.9 | 91.8 | 93.4 | 94.9 |
| | SDT(A) | 116 | 121 | 125 | 130 | 134 | 138 | 143 |
| | SDT(B) | 112 | 117 | 121 | 126 | 131 | 135 | 140 |
| | SCT(A) | 112 | 117 | 122 | 127 | 132 | 136 | 141 |
| SCT(B) | 109 | 114 | 119 | 124 | 128 | 133 | 138 | |
| 40 | TC | 1062 | 1028 | 994 | 960 | 926 | 891 | 857 |
| | kW | 88.1 | 90.6 | 93.0 | 95.2 | 97.3 | 99.2 | 100.9 |
| | SDT(A) | 119 | 123 | 128 | 132 | 136 | 141 | 145 |
| | SDT(B) | 114 | 119 | 123 | 128 | 133 | 137 | 142 |
| | SCT(A) | 114 | 119 | 124 | 129 | 133 | 138 | 143 |
| SCT(B) | 110 | 115 | 120 | 125 | 130 | 135 | 140 | |
| 45 | TC | 1163 | 1127 | 1091 | 1055 | 1018 | 982 | 946 |
| | kW | 92.6 | 95.4 | 98.0 | 100.6 | 102.9 | 105.2 | 107.1 |
| | SDT(A) | 122 | 126 | 130 | 135 | 139 | 143 | 148 |
| | SDT(B) | 117 | 121 | 126 | 130 | 135 | 139 | 144 |
| | SCT(A) | 116 | 121 | 126 | 131 | 136 | 140 | 145 |
| SCT(B) | 112 | 117 | 122 | 127 | 132 | 136 | 141 | |
| 50 | TC | 1269 | 1231 | 1192 | 1154 | 1115 | 1077 | 1038 |
| | kW | 97.3 | 100.3 | 103.2 | 106.1 | 108.7 | 111.2 | 113.5 |
| | SDT(A) | 125 | 129 | 133 | 138 | 142 | 146 | 150 |
| | SDT(B) | 119 | 124 | 128 | 133 | 137 | 142 | 146 |
| | SCT(A) | 118 | 123 | 128 | 133 | 138 | 142 | 147 |
| SCT(B) | 114 | 119 | 124 | 129 | 133 | 138 | 143 | |

| 38AH104 | | | | | | | | |
|---------|--------|--|-------|-------|-------|-------|-------|-------|
| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 782 | 749 | 718 | 686 | 654 | 624 | 592 |
| | kW | 77.4 | 79.2 | 80.9 | 82.3 | 83.6 | 84.7 | 85.6 |
| | SDT(A) | 108 | 113 | 117 | 122 | 127 | 132 | 137 |
| | SDT(B) | 110 | 115 | 119 | 124 | 129 | 133 | 138 |
| | SCT(A) | 106 | 111 | 116 | 121 | 126 | 131 | 136 |
| SCT(B) | 107 | 112 | 117 | 122 | 127 | 132 | 137 | |
| 25 | TC | 877 | 843 | 809 | 775 | 742 | 709 | 676 |
| | kW | 82.1 | 84.2 | 86.1 | 87.7 | 89.3 | 90.8 | 92.1 |
| | SDT(A) | 110 | 114 | 119 | 123 | 128 | 133 | 137 |
| | SDT(B) | 112 | 116 | 121 | 126 | 130 | 135 | 139 |
| | SCT(A) | 107 | 112 | 117 | 122 | 127 | 131 | 136 |
| SCT(B) | 109 | 114 | 119 | 124 | 128 | 133 | 138 | |
| 30 | TC | 977 | 941 | 904 | 869 | 833 | 798 | 762 |
| | kW | 86.9 | 89.1 | 91.4 | 93.4 | 95.3 | 96.9 | 98.5 |
| | SDT(A) | 112 | 116 | 121 | 125 | 130 | 134 | 139 |
| | SDT(B) | 114 | 119 | 123 | 128 | 132 | 137 | 141 |
| | SCT(A) | 109 | 113 | 118 | 123 | 128 | 133 | 137 |
| SCT(B) | 111 | 115 | 120 | 125 | 130 | 135 | 140 | |
| 35 | TC | 1082 | 1043 | 1004 | 967 | 929 | 891 | 853 |
| | kW | 91.7 | 94.4 | 96.8 | 99.1 | 101.3 | 103.2 | 105.1 |
| | SDT(A) | 114 | 118 | 123 | 127 | 132 | 136 | 141 |
| | SDT(B) | 117 | 121 | 126 | 130 | 134 | 139 | 143 |
| | SCT(A) | 110 | 115 | 120 | 125 | 129 | 134 | 139 |
| SCT(B) | 112 | 117 | 122 | 127 | 132 | 137 | 141 | |
| 40 | TC | 1192 | 1151 | 1109 | 1069 | 1028 | 988 | 948 |
| | kW | 96.8 | 99.6 | 102.5 | 105 | 107.4 | 109.7 | 111.9 |
| | SDT(A) | 117 | 121 | 125 | 130 | 134 | 138 | 143 |
| | SDT(B) | 120 | 124 | 128 | 133 | 137 | 141 | 146 |
| | SCT(A) | 112 | 117 | 122 | 127 | 131 | 136 | 141 |
| SCT(B) | 114 | 119 | 124 | 129 | 134 | 139 | 143 | |
| 45 | TC | 1308 | 1264 | 1220 | 1176 | 1132 | 1090 | 1047 |
| | kW | 101.9 | 105.2 | 108.2 | 111.1 | 113.8 | 116.4 | 118.9 |
| | SDT(A) | 119 | 124 | 128 | 132 | 136 | 141 | 145 |
| | SDT(B) | 123 | 127 | 131 | 135 | 140 | 144 | 148 |
| | SCT(A) | 114 | 119 | 124 | 128 | 133 | 138 | 143 |
| SCT(B) | 117 | 122 | 126 | 131 | 136 | 141 | 145 | |
| 50 | TC | 1429 | 1382 | 1335 | 1289 | 1243 | 1197 | 1151 |
| | kW | 107.3 | 110.8 | 114.1 | 117.3 | 120.3 | 123.2 | 125.9 |
| | SDT(A) | 122 | 126 | 131 | 135 | 139 | 143 | 148 |
| | SDT(B) | 126 | 130 | 134 | 138 | 143 | 147 | 151 |
| | SCT(A) | 116 | 121 | 126 | 131 | 135 | 140 | 145 |
| SCT(B) | 119 | 124 | 129 | 133 | 138 | 143 | 148 | |

LEGEND

- kW — Compressor Power
- SCT — Saturated Condensing Temperature (F)
- SCT(A) — Saturated Condensing Temperature for Circuit A
- SCT(B) — Saturated Condensing Temperature for Circuit B
- SDT — Saturated Discharge Temperature (F)
- SDT(A) — Saturated Discharge Temperature for Circuit A
- SDT(B) — Saturated Discharge Temperature for Circuit B
- SST — Saturated Suction Temperature Entering Condensing Unit (F)
- TC — Gross Cooling Capacity (1000 Btuh)

NOTE: Units 38AH094 and 104 consist of circuits A and B.

Performance data (cont)



CONDENSING UNIT RATINGS, 60 Hz English (cont)

| 38AH124 | | Condenser Entering-Air Temperature (F) | | | | | | |
|---------|----------------|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 884 | 848 | 810 | 774 | 738 | 702 | 668 |
| | kW | 88.6 | 90.6 | 92.4 | 94.0 | 95.2 | 96.4 | 97.4 |
| | SDT (A) or (B) | 109 | 114 | 119 | 124 | 129 | 134 | 138 |
| | SCT (A) or (B) | 108 | 113 | 118 | 123 | 128 | 133 | 138 |
| 25 | TC | 996 | 958 | 918 | 880 | 842 | 804 | 766 |
| | kW | 93.4 | 95.8 | 98.0 | 99.8 | 101.6 | 103.2 | 104.4 |
| | SDT (A) or (B) | 110 | 115 | 120 | 125 | 130 | 134 | 139 |
| | SCT (A) or (B) | 109 | 114 | 119 | 124 | 129 | 134 | 139 |
| 30 | TC | 1114 | 1072 | 1030 | 990 | 948 | 908 | 868 |
| | kW | 98.2 | 101.0 | 103.6 | 106.0 | 108.0 | 110.0 | 111.6 |
| | SDT (A) or (B) | 112 | 117 | 121 | 126 | 131 | 136 | 140 |
| | SCT (A) or (B) | 110 | 115 | 120 | 125 | 130 | 135 | 139 |
| 35 | TC | 1236 | 1192 | 1148 | 1104 | 1062 | 1018 | 974 |
| | kW | 103.2 | 106.4 | 109.4 | 112.0 | 114.6 | 116.8 | 119.0 |
| | SDT (A) or (B) | 114 | 118 | 123 | 128 | 132 | 137 | 142 |
| | SCT (A) or (B) | 112 | 117 | 121 | 126 | 131 | 136 | 141 |
| 40 | TC | 1366 | 1320 | 1272 | 1226 | 1180 | 1132 | 1086 |
| | kW | 108.4 | 111.8 | 115.2 | 118.2 | 121.2 | 123.8 | 126.2 |
| | SDT (A) or (B) | 116 | 120 | 125 | 130 | 134 | 139 | 143 |
| | SCT (A) or (B) | 114 | 118 | 123 | 128 | 133 | 137 | 142 |
| 45 | TC | 1502 | 1452 | 1402 | 1352 | 1302 | 1252 | 1204 |
| | kW | 113.6 | 117.4 | 121.0 | 124.6 | 127.8 | 131.0 | 133.8 |
| | SDT (A) or (B) | 118 | 123 | 127 | 132 | 136 | 141 | 145 |
| | SCT (A) or (B) | 116 | 120 | 125 | 130 | 135 | 139 | 144 |
| 50 | TC | 1644 | 1590 | 1536 | 1484 | 1432 | 1380 | 1326 |
| | kW | 118.8 | 123.0 | 127.0 | 131.0 | 134.6 | 138.2 | 141.4 |
| | SDT (A) or (B) | 121 | 125 | 130 | 134 | 139 | 143 | 148 |
| | SCT (A) or (B) | 118 | 122 | 127 | 132 | 137 | 141 | 146 |

LEGEND

- kW** — Compressor Power
- SCT** — Saturated Condensing Temperature (F)
- SCT(A)** — Saturated Condensing Temperature for Module 38AH124A or 134A (F)
- SCT(B)** — Saturated Condensing Temperature for Module 38AH124B or 134B (F)
- SDT** — Saturated Discharge Temperature (F)
- SDT(A)** — Saturated Discharge Temperature for Module 38AH124A or 134A (F)
- SDT(B)** — Saturated Discharge Temperature for Module 38AH124B or 134B (F)
- SST** — Saturated Suction Temperature Entering Condensing Unit (F)
- TC** — Gross Cooling Capacity (1000 Btu/h)

NOTE: Unit 38AH124 consists of Modules 124A and 124B. Unit 38AH134 consists of Modules 134A and 134B. Each module is one refrigeration circuit.

| 38AH134 | | Condenser Entering-Air Temperature (F) | | | | | | |
|---------|--------|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 992 | 955 | 916 | 878 | 840 | 802 | 765 |
| | kW | 99.8 | 102.0 | 104.0 | 105.7 | 107.2 | 108.6 | 109.7 |
| | SDT(A) | 109 | 114 | 119 | 124 | 129 | 134 | 138 |
| | SDT(B) | 108 | 113 | 117 | 122 | 127 | 132 | 137 |
| 25 | TC | 1113 | 1073 | 1032 | 992 | 952 | 912 | 872 |
| | kW | 105.3 | 107.9 | 110.3 | 112.3 | 114.3 | 116.0 | 117.5 |
| | SDT(A) | 110 | 115 | 120 | 125 | 130 | 134 | 139 |
| | SDT(B) | 109 | 114 | 119 | 123 | 128 | 133 | 138 |
| 30 | TC | 1240 | 1197 | 1154 | 1111 | 1068 | 1025 | 983 |
| | kW | 110.9 | 113.9 | 116.7 | 119.2 | 121.5 | 123.6 | 125.5 |
| | SDT(A) | 112 | 117 | 121 | 126 | 131 | 136 | 140 |
| | SDT(B) | 111 | 116 | 120 | 125 | 130 | 134 | 139 |
| 35 | TC | 1373 | 1327 | 1281 | 1235 | 1190 | 1145 | 1099 |
| | kW | 116.6 | 120.0 | 123.2 | 126.1 | 128.9 | 131.3 | 133.7 |
| | SDT(A) | 114 | 118 | 123 | 128 | 132 | 137 | 142 |
| | SDT(B) | 113 | 118 | 122 | 127 | 131 | 136 | 141 |
| 40 | TC | 1514 | 1465 | 1415 | 1367 | 1318 | 1269 | 1220 |
| | kW | 122.5 | 126.2 | 129.8 | 133.1 | 136.3 | 139.2 | 141.8 |
| | SDT(A) | 116 | 120 | 124 | 129 | 133 | 138 | 142 |
| | SDT(B) | 115 | 120 | 124 | 129 | 133 | 138 | 142 |
| 45 | TC | 1662 | 1609 | 1557 | 1504 | 1452 | 1399 | 1348 |
| | kW | 128.4 | 132.6 | 136.5 | 140.3 | 143.8 | 147.2 | 150.3 |
| | SDT(A) | 118 | 123 | 127 | 132 | 136 | 141 | 145 |
| | SDT(B) | 117 | 122 | 126 | 131 | 136 | 140 | 145 |
| 50 | TC | 1817 | 1761 | 1704 | 1649 | 1593 | 1537 | 1481 |
| | kW | 134.4 | 139.0 | 143.4 | 147.6 | 151.5 | 155.4 | 158.9 |
| | SDT(A) | 121 | 125 | 130 | 134 | 139 | 143 | 148 |
| | SDT(B) | 120 | 124 | 129 | 133 | 138 | 142 | 147 |
| 50 | SCT(A) | 118 | 122 | 127 | 132 | 137 | 141 | 146 |
| | SCT(B) | 115 | 119 | 124 | 129 | 133 | 138 | 142 |



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz English

38AH044 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 153.0 | 146.0 | 138.0 | 130.0 | 123.0 | 115.0 | 107.0 |
| | kW | 15.0 | 15.4 | 15.7 | 15.9 | 16.1 | 16.2 | 16.3 |
| | SDT | 105.0 | 110.0 | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 |
| 25 | TC | 174.0 | 166.0 | 158.0 | 150.0 | 142.0 | 134.0 | 126.0 |
| | kW | 15.8 | 16.3 | 16.7 | 17.0 | 17.3 | 17.5 | 17.6 |
| | SDT | 107.0 | 111.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 |
| 30 | TC | 195.0 | 187.0 | 179.0 | 171.0 | 162.0 | 154.0 | 146.0 |
| | kW | 16.7 | 17.2 | 17.6 | 18.0 | 18.4 | 18.7 | 19.0 |
| | SDT | 108.0 | 113.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 |
| 35 | TC | 218.0 | 209.0 | 201.0 | 192.0 | 183.0 | 175.0 | 166.0 |
| | kW | 17.5 | 18.0 | 18.6 | 19.1 | 19.5 | 19.9 | 20.2 |
| | SDT | 110.0 | 115.0 | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 |
| 40 | TC | 241.0 | 233.0 | 224.0 | 215.0 | 205.0 | 196.0 | 187.0 |
| | kW | 18.3 | 18.9 | 19.5 | 20.1 | 20.6 | 21.1 | 21.5 |
| | SDT | 112.0 | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 |
| 45 | TC | 266.0 | 257.0 | 248.0 | 238.0 | 228.0 | 219.0 | 209.0 |
| | kW | 19.1 | 19.8 | 20.5 | 21.1 | 21.7 | 22.3 | 22.8 |
| | SDT | 114.0 | 119.0 | 123.0 | 128.0 | 132.0 | 137.0 | 141.0 |
| 50 | TC | 293.0 | 283.0 | 273.0 | 263.0 | 252.0 | 242.0 | 232.0 |
| | kW | 19.9 | 20.6 | 21.4 | 22.1 | 22.8 | 23.4 | 24.0 |
| | SDT | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 | 143.0 |

38AH044 CIRCUIT B

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 152.0 | 144.0 | 136.0 | 128.0 | 121.0 | 113.0 | 105.0 |
| | kW | 15.2 | 15.6 | 15.9 | 16.1 | 16.2 | 16.3 | 16.3 |
| | SDT | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 |
| 25 | TC | 174.0 | 166.0 | 158.0 | 149.0 | 141.0 | 133.0 | 124.0 |
| | kW | 16.0 | 16.4 | 16.8 | 17.1 | 17.4 | 17.6 | 17.7 |
| | SDT | 109.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 |
| 30 | TC | 197.0 | 188.0 | 180.0 | 171.0 | 162.0 | 154.0 | 145.0 |
| | kW | 16.8 | 17.3 | 17.8 | 18.2 | 18.5 | 18.8 | 19.1 |
| | SDT | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 |
| 35 | TC | 221.0 | 212.0 | 203.0 | 194.0 | 185.0 | 176.0 | 166.0 |
| | kW | 17.5 | 18.1 | 18.6 | 19.2 | 19.6 | 20.0 | 20.4 |
| | SDT | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 139.0 |
| 40 | TC | 247.0 | 237.0 | 228.0 | 218.0 | 209.0 | 199.0 | 189.0 |
| | kW | 18.2 | 18.9 | 19.5 | 20.1 | 20.7 | 21.2 | 21.6 |
| | SDT | 112.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 140.0 |
| 45 | TC | 274.0 | 264.0 | 254.0 | 244.0 | 233.0 | 223.0 | 213.0 |
| | kW | 18.8 | 19.6 | 20.3 | 21.0 | 21.7 | 22.3 | 22.8 |
| | SDT | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 |
| 50 | TC | 303.0 | 292.0 | 281.0 | 270.0 | 259.0 | 248.0 | 237.0 |
| | kW | 19.4 | 20.3 | 21.1 | 21.9 | 22.7 | 23.4 | 24.0 |
| | SDT | 115.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 143.0 |

38AH054 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 152.0 | 145.0 | 137.0 | 129.0 | 121.0 | 113.0 | 105.0 |
| | kW | 15.4 | 15.7 | 16.0 | 16.1 | 16.2 | 16.3 | 16.2 |
| | SDT | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 |
| 25 | TC | 175.0 | 167.0 | 159.0 | 150.0 | 142.0 | 134.0 | 125.0 |
| | kW | 16.2 | 16.6 | 17.0 | 17.3 | 17.5 | 17.6 | 17.7 |
| | SDT | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 |
| 30 | TC | 199.0 | 190.0 | 182.0 | 173.0 | 164.0 | 155.0 | 146.0 |
| | kW | 16.9 | 17.4 | 17.9 | 18.3 | 18.6 | 18.9 | 19.1 |
| | SDT | 111.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 140.0 |
| 35 | TC | 223.0 | 215.0 | 206.0 | 197.0 | 188.0 | 178.0 | 169.0 |
| | kW | 17.6 | 18.2 | 18.8 | 19.3 | 19.7 | 20.1 | 20.4 |
| | SDT | 112.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 |
| 40 | TC | 249.0 | 240.0 | 231.0 | 221.0 | 212.0 | 202.0 | 192.0 |
| | kW | 18.4 | 19.0 | 19.6 | 20.2 | 20.8 | 21.3 | 21.7 |
| | SDT | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 | 141.0 |
| 45 | TC | 275.0 | 266.0 | 256.0 | 246.0 | 237.0 | 227.0 | 217.0 |
| | kW | 19.1 | 19.8 | 20.5 | 21.2 | 21.8 | 22.4 | 22.9 |
| | SDT | 115.0 | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 | 142.0 |
| 50 | TC | 303.0 | 293.0 | 283.0 | 273.0 | 262.0 | 252.0 | — |
| | kW | 19.8 | 20.6 | 21.4 | 22.1 | 22.8 | 23.5 | — |
| | SDT | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 | — |

38AH054 CIRCUIT B

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 205.0 | 197.0 | 188.0 | 180.0 | 172.0 | 164.0 | 156.0 |
| | kW | 21.0 | 21.5 | 22.0 | 22.4 | 22.7 | 22.3 | 23.3 |
| | SDT | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 141.0 |
| 25 | TC | 232.0 | 222.0 | 213.0 | 204.0 | 195.0 | 186.0 | 178.0 |
| | kW | 22.2 | 22.8 | 23.3 | 23.8 | 24.2 | 24.6 | 25.0 |
| | SDT | 113.0 | 118.0 | 123.0 | 128.0 | 132.0 | 137.0 | 142.0 |
| 30 | TC | 259.0 | 249.0 | 240.0 | 230.0 | 220.0 | 211.0 | 201.0 |
| | kW | 23.5 | 24.1 | 24.7 | 25.3 | 25.8 | 26.3 | 26.7 |
| | SDT | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 | 138.0 | 143.0 |
| 35 | TC | 289.0 | 278.0 | 267.0 | 257.0 | 246.0 | 236.0 | 226.0 |
| | kW | 24.8 | 25.5 | 26.2 | 26.8 | 27.4 | 27.9 | 28.5 |
| | SDT | 117.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 |
| 40 | TC | 319.0 | 308.0 | 296.0 | 285.0 | 274.0 | 263.0 | 252.0 |
| | kW | 26.1 | 26.9 | 27.6 | 28.3 | 29.0 | 29.6 | 30.2 |
| | SDT | 119.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 147.0 |
| 45 | TC | 352.0 | 339.0 | 327.0 | 315.0 | 303.0 | 291.0 | 279.0 |
| | kW | 27.4 | 28.3 | 29.1 | 29.9 | 30.7 | 31.4 | 32.1 |
| | SDT | 122.0 | 126.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 |
| 50 | TC | 385.0 | 372.0 | 359.0 | 346.0 | 333.0 | 321.0 | — |
| | kW | 28.8 | 29.7 | 30.7 | 31.5 | 32.4 | 33.2 | — |
| | SDT | 124.0 | 129.0 | 133.0 | 137.0 | 142.0 | 146.0 | — |

38AH064 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 207.0 | 198.0 | 190.0 | 181.0 | 173.0 | 165.0 | 157.0 |
| | kW | 20.8 | 21.3 | 21.7 | 22.2 | 22.5 | 22.9 | 23.2 |
| | SDT | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 |
| 25 | TC | 234.0 | 224.0 | 215.0 | 206.0 | 197.0 | 188.0 | 179.0 |
| | kW | 21.9 | 22.5 | 23.0 | 23.5 | 24.0 | 24.4 | 24.8 |
| | SDT | 111.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 139.0 |
| 30 | TC | 262.0 | 252.0 | 242.0 | 232.0 | 222.0 | 212.0 | 203.0 |
| | kW | 23.1 | 23.8 | 24.4 | 25.0 | 25.5 | 26.0 | 26.5 |
| | SDT | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 141.0 |
| 35 | TC | 291.0 | 281.0 | 270.0 | 259.0 | 249.0 | 238.0 | 228.0 |
| | kW | 24.3 | 25.1 | 25.8 | 26.4 | 27.0 | 27.6 | 28.2 |
| | SDT | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 137.0 | 142.0 |
| 40 | TC | 323.0 | 311.0 | 299.0 | 288.0 | 277.0 | 265.0 | 254.0 |
| | kW | 25.6 | 26.4 | 27.2 | 27.9 | 28.6 | 29.3 | 29.9 |
| | SDT | 116.0 | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 | 144.0 |
| 45 | TC | 355.0 | 343.0 | 330.0 | 318.0 | 306.0 | 294.0 | 282.0 |
| | kW | 26.8 | 27.8 | 28.6 | 29.5 | 30.2 | 31.0 | 31.7 |
| | SDT | 119.0 | 123.0 | 128.0 | 132.0 | 137.0 | 141.0 | 146.0 |
| 50 | TC | 390.0 | 376.0 | 363.0 | 350.0 | 337.0 | 324.0 | 311.0 |
| | kW | 28.1 | 29.1 | 30.1 | 31.0 | 31.9 | 32.7 | 33.5 |
| | SDT | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 | 144.0 | 148.0 |

38AH064 CIRCUIT B

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 232.0 | 223.0 | 213.0 | 203.0 | 194.0 | 184.0 | 174.0 |
| | kW | 23.5 | 24.0 | 24.4 | 24.8 | 25.1 | 25.3 | 25.5 |
| | SDT | 109.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 |
| 25 | TC | 262.0 | 252.0 | 242.0 | 231.0 | 221.0 | 211.0 | 201.0 |
| | kW | 24.8 | 25.4 | 25.9 | 26.4 | 26.8 | 27.2 | 27.4 |
| | SDT | 110.0 | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 | 139.0 |
| 30 | TC | 293.0 | 282.0 | 272.0 | 261.0 | 250.0 | 239.0 | 228.0 |
| | kW | 26.0 | 26.7 | 27.4 | 28.0 | 28.5 | 29.0 | 29.4 |
| | SDT | 111.0 | 116.0 | 121.0 | 126.0 | 130.0 | 135.0 | 140.0 |
| 35 | TC | 325.0 | 314.0 | 303.0 | 291.0 | 280.0 | 268.0 | 257.0 |
| | kW | 27.3 | 28.1 | 28.9 | 29.6 | 30.2 | 30.8 | 31.3 |
| | SDT | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 | 141.0 |
| 40 | TC | 359.0 | 347.0 | 335.0 | 323.0 | 311.0 | 299.0 | 287.0 |
| | kW | 28.5 | 29.5 | 30.3 | 31.2 | 31.9 | 32.6 | 33.2 |
| | SDT | | | | | | | |

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz English (cont)

38AH074 CIRCUIT A

| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 241.9 | 232.7 | 222.4 | 213.2 | 203.0 | 192.7 | 182.5 |
| | kW | 23.8 | 24.3 | 24.7 | 25.1 | 25.4 | 25.8 | 26.0 |
| | SDT | 108.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 |
| 25 | TC | 271.6 | 262.4 | 252.2 | 241.9 | 231.7 | 221.4 | 211.2 |
| | kW | 25.0 | 25.7 | 26.3 | 26.8 | 27.2 | 27.6 | 27.9 |
| | SDT | 109.0 | 114.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 |
| 30 | TC | 303.4 | 293.2 | 281.9 | 271.6 | 261.4 | 250.1 | 238.8 |
| | kW | 26.4 | 27.1 | 27.7 | 28.3 | 28.9 | 29.3 | 29.7 |
| | SDT | 110.0 | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 | 138.0 |
| 35 | TC | 336.2 | 324.9 | 313.7 | 302.4 | 291.1 | 279.8 | 268.6 |
| | kW | 27.6 | 28.5 | 29.2 | 29.9 | 30.6 | 31.1 | 31.7 |
| | SDT | 112.0 | 117.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 |
| 40 | TC | 370.0 | 358.8 | 346.5 | 335.2 | 322.9 | 310.6 | 299.3 |
| | kW | 28.9 | 29.8 | 30.7 | 31.6 | 32.3 | 33.0 | 33.7 |
| | SDT | 114.0 | 119.0 | 123.0 | 128.0 | 132.0 | 137.0 | 142.0 |
| 45 | TC | 406.9 | 394.6 | 381.3 | 369.0 | 356.7 | 343.4 | 331.1 |
| | kW | 30.2 | 31.2 | 32.3 | 33.2 | 34.1 | 34.8 | 35.6 |
| | SDT | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 | 144.0 |
| 50 | TC | 444.9 | 431.5 | 418.2 | 404.9 | 391.6 | 377.2 | 363.9 |
| | kW | 31.6 | 32.7 | 33.8 | 34.8 | 35.8 | 36.7 | 37.6 |
| | SDT | 119.0 | 123.0 | 128.0 | 132.0 | 137.0 | 141.0 | 146.0 |

38AH074 CIRCUIT B

| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 325.2 | 314.8 | 304.4 | 293.0 | 282.6 | 272.2 | 261.8 |
| | kW | 33.4 | 34.0 | 34.7 | 35.3 | 35.9 | 36.4 | 36.8 |
| | SDT | 108.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 |
| 25 | TC | 362.6 | 351.2 | 338.7 | 327.3 | 315.9 | 305.5 | 294.0 |
| | kW | 35.3 | 36.1 | 36.8 | 37.5 | 38.2 | 38.8 | 39.4 |
| | SDT | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 133.0 | 138.0 |
| 30 | TC | 402.1 | 388.6 | 376.1 | 363.7 | 351.2 | 339.8 | 327.3 |
| | kW | 37.3 | 38.2 | 39.1 | 39.8 | 40.6 | 41.3 | 42.0 |
| | SDT | 112.0 | 116.0 | 121.0 | 126.0 | 130.0 | 135.0 | 140.0 |
| 35 | TC | 442.6 | 429.1 | 415.6 | 402.1 | 388.6 | 375.1 | 362.6 |
| | kW | 39.3 | 40.3 | 41.4 | 42.2 | 43.1 | 43.9 | 44.7 |
| | SDT | 114.0 | 118.0 | 123.0 | 128.0 | 132.0 | 137.0 | 141.0 |
| 40 | TC | 486.3 | 471.7 | 457.2 | 442.6 | 428.1 | 413.5 | 400.0 |
| | kW | 41.4 | 42.6 | 43.7 | 44.7 | 45.6 | 46.6 | 47.4 |
| | SDT | 116.0 | 121.0 | 125.0 | 130.0 | 134.0 | 139.0 | 143.0 |
| 45 | TC | 533.0 | 517.4 | 500.8 | 485.2 | 469.6 | 454.0 | 438.5 |
| | kW | 43.5 | 44.8 | 46.0 | 47.2 | 48.3 | 49.3 | 50.3 |
| | SDT | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 141.0 | 146.0 |
| 50 | TC | 581.8 | 564.2 | 547.6 | 529.9 | 513.3 | 496.6 | 480.0 |
| | kW | 45.7 | 47.2 | 48.5 | 49.8 | 50.9 | 52.2 | 53.2 |
| | SDT | 121.0 | 125.0 | 130.0 | 134.0 | 139.0 | 143.0 | 148.0 |

38AH084 CIRCUIT A

| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 322.1 | 310.7 | 299.2 | 287.8 | 277.4 | 266.0 | 255.6 |
| | kW | 34.1 | 34.7 | 35.4 | 36.0 | 36.5 | 37.0 | 37.4 |
| | SDT | 108.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 |
| 25 | TC | 361.6 | 349.1 | 337.7 | 325.2 | 312.7 | 301.3 | 289.9 |
| | kW | 36.0 | 36.7 | 37.4 | 38.2 | 38.8 | 39.4 | 39.9 |
| | SDT | 109.0 | 114.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 |
| 30 | TC | 404.2 | 390.7 | 378.2 | 364.7 | 352.2 | 338.7 | 326.2 |
| | kW | 37.8 | 38.7 | 39.6 | 40.4 | 41.2 | 41.9 | 42.5 |
| | SDT | 110.0 | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 | 138.0 |
| 35 | TC | 448.8 | 434.3 | 420.8 | 406.2 | 392.7 | 378.2 | 364.7 |
| | kW | 39.7 | 40.8 | 41.8 | 42.7 | 43.5 | 44.4 | 45.1 |
| | SDT | 112.0 | 117.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 |
| 40 | TC | 495.6 | 480.0 | 465.5 | 449.9 | 435.3 | 419.8 | 405.2 |
| | kW | 41.7 | 42.8 | 44.0 | 45.0 | 46.0 | 47.0 | 47.8 |
| | SDT | 114.0 | 119.0 | 123.0 | 128.0 | 132.0 | 137.0 | 142.0 |
| 45 | TC | 544.4 | 527.8 | 511.2 | 495.6 | 479.0 | 463.4 | 446.8 |
| | kW | 43.8 | 45.1 | 46.2 | 47.5 | 48.5 | 49.6 | 50.6 |
| | SDT | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 | 144.0 |
| 50 | TC | 595.3 | 577.7 | 560.0 | 542.4 | 525.7 | 508.1 | 490.4 |
| | kW | 45.9 | 47.4 | 48.7 | 50.0 | 51.2 | 52.4 | 53.5 |
| | SDT | 119.0 | 123.0 | 128.0 | 132.0 | 137.0 | 141.0 | 146.0 |

38AH084 CIRCUIT B

| SST (F) | | Condenser Entering-Air Temperature (F) | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 324.2 | 312.7 | 301.3 | 289.9 | 279.5 | 268.1 | 257.7 |
| | kW | 33.8 | 34.5 | 35.2 | 35.8 | 36.3 | 36.8 | 37.2 |
| | SDT | 108.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 |
| 25 | TC | 363.7 | 351.2 | 339.8 | 327.3 | 314.8 | 303.4 | 292.0 |
| | kW | 35.7 | 36.4 | 37.2 | 38.0 | 38.6 | 39.2 | 39.7 |
| | SDT | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 133.0 | 138.0 |
| 30 | TC | 406.2 | 392.7 | 379.2 | 366.8 | 353.3 | 340.8 | 327.3 |
| | kW | 37.5 | 38.5 | 39.3 | 40.1 | 40.9 | 41.6 | 42.3 |
| | SDT | 112.0 | 116.0 | 121.0 | 126.0 | 130.0 | 135.0 | 140.0 |
| 35 | TC | 449.9 | 435.3 | 421.8 | 407.3 | 393.8 | 379.2 | 365.7 |
| | kW | 39.4 | 40.4 | 41.5 | 42.4 | 43.2 | 44.1 | 44.9 |
| | SDT | 114.0 | 118.0 | 123.0 | 128.0 | 132.0 | 137.0 | 141.0 |
| 40 | TC | 495.6 | 480.0 | 465.5 | 449.9 | 435.3 | 420.8 | 405.2 |
| | kW | 41.4 | 42.6 | 43.7 | 44.8 | 45.7 | 46.7 | 47.6 |
| | SDT | 116.0 | 121.0 | 125.0 | 130.0 | 134.0 | 139.0 | 143.0 |
| 45 | TC | 543.4 | 526.8 | 511.2 | 494.6 | 479.0 | 463.4 | 446.8 |
| | kW | 43.4 | 44.8 | 46.0 | 47.2 | 48.3 | 49.4 | 50.4 |
| | SDT | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 141.0 | 146.0 |
| 50 | TC | 593.3 | 576.6 | 559.0 | 542.4 | 524.7 | 507.0 | 490.4 |
| | kW | 45.6 | 47.1 | 48.4 | 49.7 | 50.9 | 52.1 | 53.2 |
| | SDT | 121.0 | 125.0 | 130.0 | 134.0 | 139.0 | 143.0 | 148.0 |

LEGEND

- kW — Compressor Power
- SDT — Saturated Temperature Leaving Compressor (F)
- SST — Saturated Temperature Entering Compressor (F)
- TC — Gross Cooling Capacity (1000 Btuh)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz English (cont)

| 38AH094 CIRCUIT A | | | | | | | | |
|-------------------|-----|--|------|------|------|------|------|------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 385 | 368 | 352 | 335 | 318 | 300 | 283 |
| | kW | 39.0 | 39.8 | 40.4 | 40.9 | 41.4 | 41.6 | 41.7 |
| | SDT | 110 | 115 | 119 | 124 | 129 | 134 | 139 |
| | SCT | 108 | 113 | 118 | 123 | 128 | 133 | 138 |
| 25 | TC | 433 | 416 | 398 | 381 | 363 | 346 | 328 |
| | kW | 41.3 | 42.2 | 43.1 | 43.8 | 44.4 | 44.9 | 45.2 |
| | SDT | 112 | 116 | 121 | 126 | 130 | 135 | 140 |
| | SCT | 109 | 114 | 119 | 124 | 129 | 134 | 139 |
| 30 | TC | 482 | 464 | 446 | 428 | 410 | 392 | 373 |
| | kW | 43.7 | 44.8 | 45.7 | 46.6 | 47.4 | 48.1 | 48.6 |
| | SDT | 114 | 118 | 123 | 127 | 132 | 136 | 141 |
| | SCT | 111 | 115 | 120 | 125 | 130 | 135 | 140 |
| 35 | TC | 533 | 515 | 496 | 477 | 458 | 439 | 419 |
| | kW | 46.1 | 47.3 | 48.5 | 49.5 | 50.5 | 51.3 | 52.0 |
| | SDT | 116 | 121 | 125 | 130 | 134 | 138 | 143 |
| | SCT | 112 | 117 | 122 | 127 | 132 | 136 | 141 |
| 40 | TC | 587 | 568 | 548 | 528 | 508 | 487 | 467 |
| | kW | 48.6 | 50.0 | 51.3 | 52.5 | 53.6 | 54.6 | 55.5 |
| | SDT | 119 | 123 | 128 | 132 | 136 | 141 | 145 |
| | SCT | 114 | 119 | 124 | 129 | 133 | 138 | 143 |
| 45 | TC | 643 | 623 | 602 | 581 | 559 | 538 | 517 |
| | kW | 51.1 | 52.6 | 54.1 | 55.5 | 56.8 | 58.0 | 59.0 |
| | SDT | 122 | 126 | 130 | 135 | 139 | 143 | 148 |
| | SCT | 116 | 121 | 126 | 131 | 136 | 140 | 145 |
| 50 | TC | 702 | 680 | 658 | 636 | 613 | 591 | 568 |
| | kW | 53.7 | 55.4 | 57.0 | 58.6 | 60.0 | 61.4 | 62.6 |
| | SDT | 125 | 129 | 133 | 138 | 142 | 146 | 150 |
| | SCT | 118 | 123 | 128 | 133 | 138 | 142 | 147 |

| 38AH094 CIRCUIT B | | | | | | | | |
|-------------------|-----|--|------|------|------|------|------|------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 315 | 304 | 294 | 283 | 273 | 262 | 252 |
| | kW | 32.1 | 32.8 | 33.4 | 34.0 | 34.6 | 35.1 | 35.6 |
| | SDT | 108 | 112 | 117 | 122 | 127 | 132 | 137 |
| | SCT | 106 | 111 | 116 | 121 | 126 | 131 | 136 |
| 25 | TC | 352 | 341 | 329 | 318 | 307 | 295 | 284 |
| | kW | 33.8 | 34.6 | 35.4 | 36.1 | 36.7 | 37.4 | 37.9 |
| | SDT | 109 | 113 | 118 | 123 | 128 | 133 | 138 |
| | SCT | 106 | 111 | 116 | 121 | 126 | 132 | 137 |
| 30 | TC | 391 | 379 | 366 | 354 | 342 | 330 | 318 |
| | kW | 35.7 | 36.6 | 37.4 | 38.2 | 39.0 | 39.7 | 40.3 |
| | SDT | 110 | 115 | 120 | 124 | 129 | 134 | 139 |
| | SCT | 107 | 112 | 117 | 122 | 127 | 132 | 137 |
| 35 | TC | 432 | 419 | 405 | 392 | 379 | 366 | 353 |
| | kW | 37.6 | 38.6 | 39.5 | 40.4 | 41.3 | 42.1 | 42.9 |
| | SDT | 112 | 117 | 121 | 126 | 131 | 135 | 140 |
| | SCT | 109 | 114 | 119 | 124 | 128 | 133 | 138 |
| 40 | TC | 475 | 460 | 446 | 432 | 418 | 404 | 390 |
| | kW | 39.5 | 40.6 | 41.7 | 42.7 | 43.7 | 44.6 | 45.4 |
| | SDT | 114 | 119 | 123 | 128 | 133 | 137 | 142 |
| | SCT | 110 | 115 | 120 | 125 | 130 | 135 | 140 |
| 45 | TC | 520 | 504 | 489 | 474 | 459 | 444 | 429 |
| | kW | 41.5 | 42.8 | 43.9 | 45.1 | 46.1 | 47.2 | 48.1 |
| | SDT | 117 | 121 | 126 | 130 | 135 | 139 | 144 |
| | SCT | 112 | 117 | 122 | 127 | 132 | 136 | 141 |
| 50 | TC | 567 | 551 | 534 | 518 | 502 | 486 | 470 |
| | kW | 43.6 | 44.9 | 46.2 | 47.5 | 48.7 | 49.8 | 50.9 |
| | SDT | 119 | 124 | 128 | 133 | 137 | 142 | 146 |
| | SCT | 114 | 119 | 124 | 129 | 133 | 138 | 143 |

| 38AH104 CIRCUIT A | | | | | | | | |
|-------------------|-----|--|------|------|------|------|------|------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 365 | 349 | 334 | 318 | 302 | 287 | 271 |
| | kW | 35.8 | 36.6 | 37.4 | 38.0 | 38.6 | 39.0 | 39.3 |
| | SDT | 108 | 113 | 117 | 122 | 127 | 132 | 137 |
| | SCT | 106 | 111 | 116 | 121 | 126 | 131 | 136 |
| 25 | TC | 411 | 394 | 378 | 361 | 345 | 329 | 312 |
| | kW | 37.9 | 38.9 | 39.8 | 40.5 | 41.2 | 41.9 | 42.4 |
| | SDT | 110 | 114 | 119 | 123 | 128 | 133 | 137 |
| | SCT | 107 | 112 | 117 | 122 | 127 | 131 | 136 |
| 30 | TC | 458 | 441 | 423 | 406 | 389 | 372 | 354 |
| | kW | 40.1 | 41.1 | 42.2 | 43.1 | 44.0 | 44.7 | 45.4 |
| | SDT | 112 | 116 | 121 | 125 | 130 | 134 | 139 |
| | SCT | 109 | 113 | 118 | 123 | 128 | 133 | 137 |
| 35 | TC | 508 | 490 | 471 | 453 | 435 | 416 | 398 |
| | kW | 42.2 | 43.5 | 44.6 | 45.7 | 46.7 | 47.6 | 48.5 |
| | SDT | 114 | 118 | 123 | 127 | 132 | 136 | 141 |
| | SCT | 110 | 115 | 120 | 125 | 129 | 134 | 139 |
| 40 | TC | 561 | 541 | 521 | 502 | 482 | 463 | 444 |
| | kW | 44.5 | 45.8 | 47.2 | 48.4 | 49.5 | 50.6 | 51.6 |
| | SDT | 117 | 121 | 125 | 130 | 134 | 138 | 143 |
| | SCT | 112 | 117 | 122 | 127 | 131 | 136 | 141 |
| 45 | TC | 616 | 595 | 574 | 553 | 532 | 512 | 491 |
| | kW | 46.7 | 48.3 | 49.7 | 51.1 | 52.4 | 53.6 | 54.8 |
| | SDT | 119 | 124 | 128 | 132 | 136 | 141 | 145 |
| | SCT | 114 | 119 | 124 | 128 | 133 | 138 | 143 |
| 50 | TC | 673 | 651 | 629 | 607 | 585 | 563 | 541 |
| | kW | 49.1 | 50.8 | 52.4 | 53.9 | 55.3 | 56.7 | 58.0 |
| | SDT | 122 | 126 | 131 | 135 | 139 | 143 | 148 |
| | SCT | 116 | 121 | 126 | 131 | 135 | 140 | 145 |

| 38AH104 CIRCUIT B | | | | | | | | |
|-------------------|-----|--|------|------|------|------|------|------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | 115 |
| 20 | TC | 417 | 400 | 384 | 368 | 352 | 337 | 321 |
| | kW | 41.6 | 42.6 | 43.5 | 44.3 | 45.0 | 45.7 | 46.3 |
| | SDT | 110 | 115 | 119 | 124 | 129 | 133 | 138 |
| | SCT | 107 | 112 | 117 | 122 | 127 | 132 | 137 |
| 25 | TC | 466 | 449 | 431 | 414 | 397 | 380 | 364 |
| | kW | 44.2 | 45.3 | 46.3 | 47.2 | 48.1 | 48.9 | 49.7 |
| | SDT | 112 | 116 | 121 | 126 | 130 | 135 | 139 |
| | SCT | 109 | 114 | 119 | 124 | 128 | 133 | 138 |
| 30 | TC | 519 | 500 | 481 | 463 | 444 | 426 | 408 |
| | kW | 46.8 | 48.0 | 49.2 | 50.3 | 51.3 | 52.2 | 53.1 |
| | SDT | 114 | 119 | 123 | 128 | 132 | 137 | 141 |
| | SCT | 111 | 115 | 120 | 125 | 130 | 135 | 140 |
| 35 | TC | 574 | 553 | 533 | 514 | 494 | 475 | 455 |
| | kW | 49.5 | 50.9 | 52.2 | 53.4 | 54.6 | 55.6 | 56.6 |
| | SDT | 117 | 121 | 126 | 130 | 134 | 139 | 143 |
| | SCT | 112 | 117 | 122 | 127 | 132 | 137 | 141 |
| 40 | TC | 631 | 610 | 588 | 567 | 546 | 525 | 504 |
| | kW | 52.3 | 53.8 | 55.3 | 56.6 | 57.9 | 59.1 | 60.3 |
| | SDT | 120 | 124 | 128 | 133 | 137 | 141 | 146 |
| | SCT | 114 | 119 | 124 | 129 | 134 | 139 | 143 |
| 45 | TC | 692 | 669 | 646 | 623 | 600 | 578 | 556 |
| | kW | 55.2 | 56.9 | 58.5 | 60.0 | 61.4 | 62.8 | 64.1 |
| | SDT | 123 | 127 | 131 | 135 | 140 | 144 | 148 |
| | SCT | 117 | 122 | 126 | 131 | 136 | 141 | 145 |
| 50 | TC | 756 | 731 | 706 | 682 | 658 | 634 | 610 |
| | kW | 58.2 | 60.0 | 61.7 | 63.4 | 65.0 | 66.5 | 67.9 |
| | SDT | 126 | 130 | 134 | 138 | 143 | 147 | 151 |
| | SCT | 119 | 124 | 129 | 133 | 138 | 143 | 148 |

LEGEND

- kW** — Compressor Power
- SCT** — Saturated Condenser Temperature (F)
- SDT** — Saturated Temperature Leaving Compressor (F)
- SST** — Saturated Temperature Entering Compressor (F)
- TC** — Gross Cooling Capacity (1000 Btuh)

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz English (cont)

| 38AH124 MODULE 124A OR 124B; 38AH134 MODULE 134A | | | | | | | | |
|--|-----|--|------|------|------|------|------|------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | |
| 20 | TC | 442 | 424 | 405 | 387 | 369 | 351 | 334 |
| | kW | 44.3 | 45.3 | 46.2 | 47.0 | 47.6 | 48.2 | 48.7 |
| | SDT | 109 | 114 | 119 | 124 | 129 | 134 | 138 |
| | SCT | 108 | 113 | 118 | 123 | 128 | 133 | 138 |
| 25 | TC | 498 | 479 | 459 | 440 | 421 | 402 | 383 |
| | kW | 46.7 | 47.9 | 49.0 | 49.9 | 50.8 | 51.6 | 52.2 |
| | SDT | 110 | 115 | 120 | 125 | 130 | 134 | 139 |
| | SCT | 109 | 114 | 119 | 124 | 129 | 134 | 139 |
| 30 | TC | 557 | 536 | 515 | 495 | 474 | 454 | 434 |
| | kW | 49.1 | 50.5 | 51.8 | 53.0 | 54.0 | 55.0 | 55.8 |
| | SDT | 112 | 117 | 121 | 126 | 131 | 136 | 140 |
| | SCT | 110 | 115 | 120 | 125 | 130 | 135 | 139 |
| 35 | TC | 618 | 596 | 574 | 552 | 531 | 509 | 487 |
| | kW | 51.6 | 53.2 | 54.7 | 56.0 | 57.3 | 58.4 | 59.5 |
| | SDT | 114 | 118 | 123 | 128 | 132 | 137 | 142 |
| | SCT | 112 | 117 | 121 | 126 | 131 | 136 | 141 |
| 40 | TC | 683 | 660 | 636 | 613 | 590 | 566 | 543 |
| | kW | 54.2 | 55.9 | 57.6 | 59.1 | 60.6 | 61.9 | 63.1 |
| | SDT | 116 | 120 | 125 | 130 | 134 | 139 | 143 |
| | SCT | 114 | 118 | 123 | 128 | 133 | 137 | 142 |
| 45 | TC | 751 | 726 | 701 | 676 | 651 | 626 | 602 |
| | kW | 56.8 | 58.7 | 60.5 | 62.3 | 63.9 | 65.5 | 66.9 |
| | SDT | 118 | 123 | 127 | 132 | 136 | 141 | 145 |
| | SCT | 116 | 120 | 125 | 130 | 135 | 139 | 144 |
| 50 | TC | 822 | 795 | 768 | 742 | 716 | 690 | 663 |
| | kW | 59.4 | 61.5 | 63.5 | 65.5 | 67.3 | 69.1 | 70.7 |
| | SDT | 121 | 125 | 130 | 134 | 139 | 143 | 148 |
| | SCT | 118 | 122 | 127 | 132 | 137 | 141 | 146 |

| 38AH134 MODULE 134B | | | | | | | | |
|---------------------|-----|--|------|------|------|------|------|------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | |
| | | 85 | 90 | 95 | 100 | 105 | 110 | |
| 20 | TC | 550 | 531 | 511 | 491 | 471 | 451 | 431 |
| | kW | 55.5 | 56.7 | 57.8 | 58.7 | 59.6 | 60.4 | 61.0 |
| | SDT | 108 | 113 | 117 | 122 | 127 | 132 | 137 |
| | SCT | 104 | 109 | 114 | 119 | 124 | 129 | 134 |
| 25 | TC | 615 | 594 | 573 | 552 | 531 | 510 | 489 |
| | kW | 58.6 | 60.0 | 61.3 | 62.4 | 63.5 | 64.4 | 65.3 |
| | SDT | 109 | 114 | 119 | 123 | 128 | 133 | 138 |
| | SCT | 106 | 111 | 115 | 120 | 125 | 130 | 134 |
| 30 | TC | 683 | 661 | 639 | 616 | 594 | 571 | 549 |
| | kW | 61.8 | 63.4 | 64.9 | 66.2 | 67.5 | 68.6 | 69.7 |
| | SDT | 111 | 116 | 120 | 125 | 130 | 134 | 139 |
| | SCT | 107 | 112 | 117 | 122 | 126 | 131 | 136 |
| 35 | TC | 755 | 731 | 707 | 683 | 659 | 636 | 612 |
| | kW | 65.0 | 66.8 | 68.5 | 70.1 | 71.6 | 72.9 | 74.2 |
| | SDT | 113 | 118 | 122 | 127 | 131 | 136 | 141 |
| | SCT | 109 | 114 | 119 | 123 | 128 | 133 | 137 |
| 40 | TC | 831 | 805 | 779 | 754 | 728 | 703 | 677 |
| | kW | 68.3 | 70.3 | 72.2 | 74.0 | 75.7 | 77.3 | 78.7 |
| | SDT | 115 | 120 | 124 | 129 | 133 | 138 | 142 |
| | SCT | 111 | 116 | 120 | 125 | 130 | 134 | 139 |
| 45 | TC | 911 | 883 | 856 | 828 | 801 | 773 | 746 |
| | kW | 71.6 | 73.9 | 76.0 | 78.0 | 79.9 | 81.7 | 83.4 |
| | SDT | 117 | 122 | 126 | 131 | 136 | 140 | 145 |
| | SCT | 113 | 117 | 122 | 127 | 131 | 136 | 141 |
| 50 | TC | 995 | 966 | 936 | 907 | 877 | 847 | 818 |
| | kW | 75.0 | 77.5 | 79.9 | 82.1 | 84.2 | 86.3 | 88.2 |
| | SDT | 120 | 124 | 129 | 133 | 138 | 142 | 147 |
| | SCT | 115 | 119 | 124 | 129 | 133 | 138 | 142 |

LEGEND

- kW — Compressor Power
- SCT — Saturated Condensing Temperature (F)
- SDT — Saturated Discharge Temperature (F)
- SST — Saturated Suction Temperature Entering Condensing Unit (F)
- TC — Gross Cooling Capacity (1000 Btuh)

NOTE: Unit 38AH124 consists of Modules 124A and 124B. Unit 38AH134 consists of Modules 134A and 134B. Each module is one circuit.



CONDENSING UNIT RATINGS, 60 Hz SI

38AH044

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 124.6 | 113.8 | 108.4 | 104.8 | 99.4 | 94.1 | 88.7 | 85.1 | 79.7 | 74.3 | 68.9 |
| | kW | 31.8 | 33.1 | 33.7 | 34.2 | 34.8 | 35.5 | 36.1 | 36.6 | 37.2 | 37.9 | 38.5 |
| | SDT | 33.8 | 39.6 | 42.5 | 44.4 | 47.3 | 50.2 | 53.1 | 55.0 | 57.9 | 60.8 | 63.7 |
| 0 | TC | 136.0 | 124.8 | 119.2 | 115.4 | 109.8 | 104.2 | 98.5 | 94.8 | 89.2 | 83.6 | 77.9 |
| | kW | 32.4 | 34.0 | 34.8 | 35.3 | 36.1 | 36.9 | 37.7 | 38.2 | 39.0 | 39.8 | 40.6 |
| | SDT | 34.7 | 40.4 | 43.3 | 45.2 | 48.0 | 50.9 | 53.8 | 55.7 | 58.5 | 61.4 | 64.3 |
| 2 | TC | 147.5 | 135.8 | 129.9 | 126.0 | 120.1 | 114.3 | 108.4 | 104.5 | 98.6 | 92.8 | 86.9 |
| | kW | 33.1 | 35.0 | 35.9 | 36.5 | 37.4 | 38.3 | 39.3 | 39.9 | 40.8 | 41.7 | 42.6 |
| | SDT | 35.5 | 41.2 | 44.0 | 45.9 | 48.7 | 51.6 | 54.4 | 56.3 | 59.1 | 62.0 | 64.8 |
| 4 | TC | 158.9 | 146.7 | 140.6 | 136.6 | 130.5 | 124.4 | 118.3 | 114.2 | 108.1 | 102.0 | 95.9 |
| | kW | 33.8 | 35.9 | 36.9 | 37.7 | 38.7 | 39.8 | 40.8 | 41.5 | 42.6 | 43.7 | 44.7 |
| | SDT | 36.3 | 41.9 | 44.7 | 46.6 | 49.4 | 52.2 | 55.0 | 56.9 | 59.7 | 62.5 | 65.3 |
| 6 | TC | 170.4 | 157.7 | 151.4 | 147.1 | 140.8 | 134.5 | 128.1 | 123.9 | 117.6 | 111.3 | 104.9 |
| | kW | 34.4 | 36.8 | 38.0 | 38.8 | 40.0 | 41.2 | 42.4 | 43.2 | 44.4 | 45.6 | 46.8 |
| | SDT | 37.2 | 42.7 | 45.5 | 47.3 | 50.1 | 52.9 | 55.7 | 57.5 | 60.3 | 63.1 | 65.9 |
| 8 | TC | 181.8 | 168.7 | 162.1 | 157.7 | 151.1 | 144.6 | 138.0 | 133.6 | 127.1 | 120.5 | 113.9 |
| | kW | 35.1 | 37.8 | 39.1 | 40.0 | 41.3 | 42.6 | 44.0 | 44.9 | 46.2 | 47.5 | 48.9 |
| | SDT | 38.0 | 43.5 | 46.2 | 48.1 | 50.8 | 53.6 | 56.3 | 58.2 | 60.9 | 63.7 | 66.4 |
| 10 | TC | 193.2 | 179.6 | 172.8 | 168.3 | 161.5 | 154.7 | 147.9 | 143.3 | 136.5 | 129.7 | — |
| | kW | 35.7 | 38.7 | 40.2 | 41.1 | 42.6 | 44.1 | 45.5 | 46.5 | 48.0 | 49.5 | — |
| | SDT | 38.8 | 44.3 | 47.0 | 48.8 | 51.5 | 54.3 | 57.0 | 58.8 | 61.5 | 64.2 | — |

38AH054

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 144.5 | 132.9 | 127.1 | 123.2 | 117.4 | 111.5 | 105.7 | 101.8 | 96.0 | 90.2 | 84.4 |
| | kW | 38.4 | 39.9 | 40.7 | 41.2 | 42.0 | 42.7 | 43.5 | 44.0 | 44.8 | 45.5 | 46.3 |
| | SDT | 35.5 | 41.5 | 44.5 | 46.5 | 49.6 | 52.6 | 55.6 | 57.6 | 60.6 | 63.6 | 66.6 |
| 0 | TC | 157.4 | 145.2 | 139.1 | 135.0 | 129.0 | 122.9 | 116.8 | 112.7 | 106.6 | 100.5 | 94.5 |
| | kW | 39.4 | 41.2 | 42.1 | 42.7 | 43.6 | 44.5 | 45.4 | 46.0 | 47.0 | 47.9 | 48.8 |
| | SDT | 36.4 | 42.4 | 45.3 | 47.3 | 50.3 | 53.2 | 56.2 | 58.1 | 61.1 | 64.1 | 67.0 |
| 2 | TC | 170.2 | 157.5 | 151.2 | 146.9 | 140.6 | 134.2 | 127.9 | 123.6 | 117.3 | 110.9 | 104.6 |
| | kW | 40.3 | 42.5 | 43.5 | 44.2 | 45.3 | 46.3 | 47.4 | 48.1 | 49.1 | 50.2 | 51.3 |
| | SDT | 37.4 | 43.2 | 46.1 | 48.0 | 51.0 | 53.9 | 56.8 | 58.7 | 61.6 | 64.5 | 67.4 |
| 4 | TC | 183.1 | 169.8 | 163.2 | 158.8 | 152.2 | 145.5 | 138.9 | 134.5 | 127.9 | 121.3 | 114.6 |
| | kW | 41.3 | 43.7 | 44.9 | 45.7 | 46.9 | 48.1 | 49.3 | 50.1 | 51.3 | 52.5 | 53.7 |
| | SDT | 38.4 | 44.1 | 46.9 | 48.8 | 51.7 | 54.5 | 57.4 | 59.3 | 62.1 | 65.0 | 67.8 |
| 6 | TC | 195.9 | 182.1 | 175.3 | 170.7 | 163.8 | 156.9 | 150.0 | 145.4 | 138.5 | 131.6 | 124.7 |
| | kW | 42.3 | 45.0 | 46.3 | 47.2 | 48.6 | 49.9 | 51.3 | 52.2 | 53.5 | 54.9 | 56.2 |
| | SDT | 39.3 | 44.9 | 47.7 | 49.6 | 52.4 | 55.1 | 57.9 | 59.8 | 62.6 | 65.4 | 68.2 |
| 8 | TC | 208.8 | 194.5 | 187.3 | 182.5 | 175.4 | 168.2 | 161.1 | 156.3 | 149.2 | 142.0 | — |
| | kW | 43.3 | 46.3 | 47.8 | 48.8 | 50.2 | 51.7 | 53.2 | 54.2 | 55.7 | 57.2 | — |
| | SDT | 40.3 | 45.7 | 48.5 | 50.3 | 53.1 | 55.8 | 58.5 | 60.4 | 63.1 | 65.8 | — |
| 10 | TC | 221.6 | 206.8 | 199.4 | 194.4 | 187.0 | 179.6 | 172.1 | 167.2 | 159.8 | — | — |
| | kW | 44.3 | 47.5 | 49.2 | 50.3 | 51.9 | 53.5 | 55.2 | 56.3 | 57.9 | — | — |
| | SDT | 41.2 | 46.6 | 49.3 | 51.1 | 53.8 | 56.4 | 59.1 | 60.9 | 63.6 | — | — |

38AH064

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 174.0 | 161.0 | 154.5 | 150.1 | 143.6 | 137.0 | 130.5 | 126.1 | 119.6 | 113.1 | 106.5 |
| | kW | 46.4 | 48.4 | 49.3 | 50.0 | 50.9 | 51.9 | 52.9 | 53.5 | 54.5 | 55.5 | 56.4 |
| | SDT | 35.1 | 40.9 | 43.8 | 45.7 | 48.6 | 51.5 | 54.4 | 56.3 | 59.2 | 62.1 | 65.0 |
| 0 | TC | 188.9 | 175.1 | 168.3 | 163.7 | 156.9 | 150.0 | 143.1 | 138.6 | 131.7 | 124.9 | 118.0 |
| | kW | 47.7 | 50.0 | 51.1 | 51.9 | 53.0 | 54.1 | 55.3 | 56.0 | 57.1 | 58.3 | 59.4 |
| | SDT | 36.2 | 41.9 | 44.8 | 46.7 | 49.5 | 52.4 | 55.3 | 57.2 | 60.0 | 62.9 | 65.7 |
| 2 | TC | 203.7 | 189.3 | 182.1 | 177.3 | 170.2 | 163.0 | 155.8 | 151.0 | 143.8 | 136.6 | 129.5 |
| | kW | 49.0 | 51.6 | 52.9 | 53.7 | 55.0 | 56.3 | 57.6 | 58.5 | 59.8 | 61.1 | 62.4 |
| | SDT | 37.2 | 42.9 | 45.7 | 47.6 | 50.4 | 53.3 | 56.1 | 58.0 | 60.8 | 63.7 | 66.5 |
| 4 | TC | 218.5 | 203.5 | 196.0 | 191.0 | 183.4 | 175.9 | 168.4 | 163.4 | 155.9 | 148.4 | 140.9 |
| | kW | 50.3 | 53.2 | 54.7 | 55.6 | 57.1 | 58.6 | 60.0 | 61.0 | 62.5 | 63.9 | 65.4 |
| | SDT | 38.2 | 43.8 | 46.7 | 48.5 | 51.3 | 54.1 | 56.9 | 58.8 | 61.6 | 64.4 | 67.2 |
| 6 | TC | 233.3 | 217.6 | 209.8 | 204.6 | 196.7 | 188.9 | 181.1 | 175.9 | 168.0 | 160.2 | 152.4 |
| | kW | 51.5 | 54.8 | 56.4 | 57.5 | 59.1 | 60.8 | 62.4 | 63.5 | 65.1 | 66.7 | 68.4 |
| | SDT | 39.3 | 44.8 | 47.6 | 49.4 | 52.2 | 55.0 | 57.8 | 59.6 | 62.4 | 65.2 | 68.0 |
| 8 | TC | 248.1 | 231.8 | 223.6 | 218.2 | 210.0 | 201.9 | 193.7 | 188.3 | 180.1 | 172.0 | 163.8 |
| | kW | 52.8 | 56.4 | 58.2 | 59.4 | 61.2 | 63.0 | 64.8 | 66.0 | 67.8 | 69.6 | 71.4 |
| | SDT | 40.3 | 45.8 | 48.5 | 50.4 | 53.1 | 55.9 | 58.6 | 60.5 | 63.2 | 66.0 | 68.7 |
| 10 | TC | 262.9 | 245.9 | 237.5 | 231.8 | 223.3 | 214.8 | 206.4 | 200.7 | 192.2 | 183.8 | 175.3 |
| | kW | 54.1 | 58.0 | 60.0 | 61.3 | 63.3 | 65.2 | 67.2 | 68.5 | 70.4 | 72.4 | 74.3 |
| | SDT | 41.3 | 46.8 | 49.5 | 51.3 | 54.0 | 56.8 | 59.5 | 61.3 | 64.0 | 66.7 | 69.5 |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT RATINGS, 60 Hz SI (cont)

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 217.7 | 203.3 | 196.1 | 191.3 | 184.2 | 177.0 | 169.8 | 165.0 | 157.8 | 150.7 | 143.5 |
| | kW | 59.9 | 62.3 | 63.5 | 64.3 | 65.5 | 66.7 | 67.9 | 68.7 | 69.9 | 71.1 | 72.2 |
| | SDT | 35.4 | 41.0 | 43.7 | 45.6 | 48.4 | 51.1 | 53.9 | 55.7 | 58.5 | 61.3 | 64.0 |
| 0 | TC | 235.8 | 220.6 | 213.0 | 207.9 | 200.3 | 192.7 | 185.1 | 180.0 | 172.4 | 164.8 | 157.2 |
| | kW | 61.9 | 64.6 | 66.0 | 66.9 | 68.3 | 69.6 | 71.0 | 71.9 | 73.3 | 74.7 | 76.0 |
| | SDT | 36.4 | 41.9 | 44.6 | 46.5 | 49.3 | 52.0 | 54.8 | 56.6 | 59.4 | 62.1 | 64.9 |
| 2 | TC | 253.9 | 237.8 | 229.8 | 224.5 | 216.4 | 208.4 | 200.4 | 195.0 | 187.0 | 178.9 | 170.9 |
| | kW | 63.8 | 66.9 | 68.5 | 69.5 | 71.0 | 72.6 | 74.2 | 75.2 | 76.7 | 78.3 | 79.8 |
| | SDT | 37.3 | 42.8 | 45.5 | 47.4 | 50.2 | 52.9 | 55.7 | 57.5 | 60.3 | 63.0 | 65.8 |
| 4 | TC | 272.0 | 255.1 | 246.6 | 241.0 | 232.5 | 224.1 | 215.6 | 210.0 | 201.5 | 193.1 | 184.6 |
| | kW | 65.8 | 69.2 | 70.9 | 72.1 | 73.8 | 75.6 | 77.3 | 78.4 | 80.2 | 81.9 | 83.6 |
| | SDT | 38.2 | 43.7 | 46.4 | 48.3 | 51.1 | 53.8 | 56.6 | 58.4 | 61.2 | 63.9 | 66.7 |
| 6 | TC | 290.1 | 272.4 | 263.5 | 257.6 | 248.7 | 239.8 | 230.9 | 225.0 | 216.1 | 207.2 | 198.3 |
| | kW | 67.7 | 71.5 | 73.4 | 74.7 | 76.6 | 78.5 | 80.4 | 81.7 | 83.6 | 85.5 | 87.4 |
| | SDT | 39.1 | 44.6 | 47.3 | 49.2 | 52.0 | 54.7 | 57.5 | 59.3 | 62.1 | 64.8 | 67.6 |
| 8 | TC | 308.3 | 289.6 | 280.3 | 274.1 | 264.8 | 255.5 | 246.2 | 240.0 | 230.7 | 221.3 | 212.0 |
| | kW | 69.6 | 73.8 | 75.9 | 77.3 | 79.4 | 81.5 | 83.6 | 85.0 | 87.0 | 89.1 | 91.2 |
| | SDT | 40.0 | 45.5 | 48.2 | 50.1 | 52.9 | 55.6 | 58.4 | 60.2 | 63.0 | 65.7 | 68.5 |
| 10 | TC | 326.4 | 306.9 | 297.2 | 290.7 | 280.9 | 271.2 | 261.5 | 255.0 | 245.2 | — | — |
| | kW | 71.6 | 76.1 | 78.4 | 79.9 | 82.2 | 84.4 | 86.7 | 88.2 | 90.5 | — | — |
| | SDT | 40.9 | 46.4 | 49.1 | 51.0 | 53.8 | 56.5 | 59.3 | 61.1 | 63.9 | — | — |

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 250.5 | 234.1 | 225.9 | 220.4 | 212.2 | 204.0 | 195.8 | 190.3 | 182.1 | 173.9 | 165.7 |
| | kW | 70.6 | 73.5 | 74.9 | 75.9 | 77.3 | 78.7 | 80.2 | 81.1 | 82.5 | 84.0 | 85.4 |
| | SDT | 35.4 | 41.0 | 43.7 | 45.6 | 48.4 | 51.1 | 53.9 | 55.7 | 58.5 | 61.3 | 64.0 |
| 0 | TC | 271.8 | 254.4 | 245.7 | 239.9 | 231.2 | 222.5 | 213.8 | 208.0 | 199.2 | 190.5 | 181.8 |
| | kW | 73.0 | 76.2 | 77.9 | 78.9 | 80.6 | 82.2 | 83.8 | 84.9 | 86.5 | 88.1 | 89.7 |
| | SDT | 36.4 | 41.9 | 44.6 | 46.5 | 49.3 | 52.0 | 54.8 | 56.6 | 59.4 | 62.1 | 64.9 |
| 2 | TC | 293.0 | 274.6 | 265.4 | 259.3 | 250.1 | 240.9 | 231.7 | 225.6 | 216.4 | 207.2 | 198.0 |
| | kW | 75.4 | 79.0 | 80.8 | 82.0 | 83.8 | 85.6 | 87.4 | 88.6 | 90.4 | 92.3 | 94.1 |
| | SDT | 37.3 | 42.8 | 45.5 | 47.4 | 50.2 | 52.9 | 55.7 | 57.5 | 60.3 | 63.0 | 65.8 |
| 4 | TC | 314.3 | 294.9 | 285.2 | 278.8 | 269.1 | 259.4 | 249.7 | 243.3 | 233.6 | 223.9 | 214.2 |
| | kW | 77.7 | 81.7 | 83.7 | 85.1 | 87.1 | 89.1 | 91.1 | 92.4 | 94.4 | 96.4 | 98.4 |
| | SDT | 38.2 | 43.7 | 46.4 | 48.3 | 51.1 | 53.8 | 56.6 | 58.4 | 61.2 | 63.9 | 66.7 |
| 6 | TC | 335.5 | 315.2 | 305.0 | 298.2 | 288.1 | 277.9 | 267.7 | 260.9 | 250.8 | 240.6 | 230.4 |
| | kW | 80.1 | 84.5 | 86.6 | 88.1 | 90.3 | 92.5 | 94.7 | 96.1 | 98.3 | 100.5 | 102.7 |
| | SDT | 39.1 | 44.6 | 47.3 | 49.2 | 52.0 | 54.7 | 57.5 | 59.3 | 62.1 | 64.8 | 67.6 |
| 8 | TC | 356.8 | 335.4 | 324.8 | 317.7 | 307.0 | 296.4 | 285.7 | 278.6 | 267.9 | 257.3 | 246.6 |
| | kW | 82.4 | 87.2 | 89.6 | 91.2 | 93.5 | 95.9 | 98.3 | 99.9 | 102.3 | 104.7 | 107.1 |
| | SDT | 40.0 | 45.5 | 48.2 | 50.1 | 52.9 | 55.6 | 58.4 | 60.2 | 63.0 | 65.7 | 68.5 |
| 10 | TC | 378.0 | 355.7 | 344.6 | 337.1 | 326.0 | 314.8 | 303.7 | 296.2 | 285.1 | — | — |
| | kW | 84.8 | 89.9 | 92.5 | 94.2 | 96.8 | 99.4 | 101.9 | 103.7 | 106.2 | — | — |
| | SDT | 40.9 | 46.4 | 49.1 | 51.0 | 53.8 | 56.5 | 59.3 | 61.1 | 63.9 | — | — |

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 272.1 | 252.9 | 243.3 | 236.9 | 227.3 | 217.7 | 208.1 | 201.7 | 192.1 | 182.5 | 173.0 |
| | kW | 74.7 | 77.6 | 79.0 | 80.0 | 81.4 | 82.8 | 84.3 | 85.2 | 86.6 | 88.1 | 89.5 |
| | SDT | 35.6 | 41.2 | 44.0 | 45.9 | 48.7 | 51.5 | 54.4 | 56.2 | 59.0 | 61.9 | 64.7 |
| 0 | TC | 294.3 | 274.2 | 264.1 | 257.4 | 247.4 | 237.3 | 227.2 | 220.5 | 210.5 | 200.4 | 190.3 |
| | kW | 77.3 | 80.6 | 82.3 | 83.4 | 85.0 | 86.6 | 88.3 | 89.4 | 91.0 | 92.7 | 94.3 |
| | SDT | 36.7 | 42.3 | 45.1 | 46.9 | 49.7 | 52.5 | 55.3 | 57.2 | 59.9 | 62.7 | 65.5 |
| 2 | TC | 316.6 | 295.5 | 285.0 | 277.9 | 267.4 | 256.9 | 246.3 | 239.3 | 228.8 | 218.2 | 207.7 |
| | kW | 79.9 | 83.7 | 85.5 | 86.7 | 88.6 | 90.5 | 92.3 | 93.5 | 95.4 | 97.3 | 99.1 |
| | SDT | 37.8 | 43.4 | 46.1 | 48.0 | 50.7 | 53.5 | 56.2 | 58.1 | 60.8 | 63.6 | 66.4 |
| 4 | TC | 338.8 | 316.8 | 305.8 | 298.5 | 287.5 | 276.4 | 265.4 | 258.1 | 247.1 | 236.1 | 225.1 |
| | kW | 82.5 | 86.7 | 88.8 | 90.1 | 92.2 | 94.3 | 96.3 | 97.7 | 99.8 | 101.9 | 103.9 |
| | SDT | 39.0 | 44.4 | 47.2 | 49.0 | 51.7 | 54.5 | 57.2 | 59.0 | 61.7 | 64.5 | 67.2 |
| 6 | TC | 361.1 | 338.1 | 326.6 | 319.0 | 307.5 | 296.0 | 284.5 | 276.9 | 265.4 | 253.9 | 242.4 |
| | kW | 85.2 | 89.7 | 92.0 | 93.5 | 95.8 | 98.1 | 100.4 | 101.9 | 104.2 | 106.4 | 108.7 |
| | SDT | 40.1 | 45.5 | 48.2 | 50.0 | 52.7 | 55.4 | 58.1 | 59.9 | 62.6 | 65.3 | 68.0 |
| 8 | TC | 383.3 | 359.4 | 347.5 | 339.5 | 327.5 | 315.6 | 303.6 | 295.7 | 283.7 | 271.8 | 259.8 |
| | kW | 87.8 | 92.7 | 95.2 | 96.9 | 99.4 | 101.9 | 104.4 | 106.1 | 108.5 | 111.0 | 113.5 |
| | SDT | 41.2 | 46.6 | 49.3 | 51.0 | 53.7 | 56.4 | 59.1 | 60.9 | 63.5 | 66.2 | 68.9 |
| 10 | TC | 405.6 | 380.7 | 368.3 | 360.0 | 347.6 | 335.2 | 322.7 | 314.5 | 302.0 | 289.6 | — |
| | kW | 90.4 | 95.8 | 98.5 | 100.3 | 103.0 | 105.7 | 108.4 | 110.2 | 112.9 | 115.6 | — |
| | SDT | 42.4 | 47.7 | 50.3 | 52.1 | 54.7 | 57.4 | 60.0 | 61.8 | 64.4 | 67.1 | — |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT RATINGS, 60 Hz SI (cont)

38AH104

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 304.0 | 281.9 | 270.9 | 263.5 | 252.5 | 241.4 | 230.4 | 223.0 | 212.0 | 200.9 | 189.9 |
| | kW | 81.0 | 84.6 | 86.3 | 87.5 | 89.3 | 91.0 | 92.8 | 94.0 | 95.8 | 97.5 | 99.3 |
| | SDT | 37.1 | 42.5 | 45.1 | 46.9 | 49.6 | 52.2 | 54.9 | 56.7 | 59.3 | 62.0 | 64.6 |
| 0 | TC | 329.8 | 306.5 | 294.8 | 287.0 | 275.3 | 263.6 | 251.9 | 244.1 | 232.4 | 220.7 | 209.0 |
| | kW | 84.0 | 88.0 | 90.0 | 91.4 | 93.4 | 95.4 | 97.4 | 98.7 | 100.7 | 102.7 | 104.7 |
| | SDT | 38.3 | 43.5 | 46.2 | 47.9 | 50.6 | 53.2 | 55.8 | 57.6 | 60.2 | 62.9 | 65.5 |
| 2 | TC | 355.6 | 331.0 | 318.6 | 310.4 | 298.1 | 285.7 | 273.4 | 265.1 | 252.8 | 240.5 | 228.1 |
| | kW | 87.1 | 91.5 | 93.8 | 95.3 | 97.5 | 99.7 | 102.0 | 103.4 | 105.7 | 107.9 | 110.1 |
| | SDT | 39.4 | 44.6 | 47.2 | 48.9 | 51.6 | 54.2 | 56.8 | 58.5 | 61.1 | 63.7 | 66.3 |
| 4 | TC | 381.5 | 355.5 | 342.5 | 333.8 | 320.8 | 307.9 | 294.9 | 286.2 | 273.2 | 260.2 | 247.2 |
| | kW | 90.1 | 95.0 | 97.5 | 99.1 | 101.6 | 104.1 | 106.5 | 108.2 | 110.6 | 113.1 | 115.6 |
| | SDT | 40.5 | 45.7 | 48.3 | 50.0 | 52.6 | 55.1 | 57.7 | 59.4 | 62.0 | 64.6 | 67.2 |
| 6 | TC | 407.3 | 380.0 | 366.4 | 357.3 | 343.6 | 330.0 | 316.4 | 307.3 | 293.6 | 280.0 | 266.4 |
| | kW | 93.1 | 98.5 | 101.2 | 103.0 | 105.7 | 108.4 | 111.1 | 112.9 | 115.6 | 118.3 | 121.0 |
| | SDT | 41.7 | 46.8 | 49.3 | 51.0 | 53.6 | 56.1 | 58.7 | 60.4 | 62.9 | 65.5 | 68.0 |
| 8 | TC | 433.1 | 404.5 | 390.2 | 380.7 | 366.4 | 352.1 | 337.9 | 328.3 | 314.1 | 299.8 | — |
| | kW | 96.1 | 102.0 | 104.9 | 106.9 | 109.8 | 112.7 | 115.7 | 117.6 | 120.5 | 123.5 | — |
| | SDT | 42.8 | 47.8 | 50.4 | 52.0 | 54.6 | 57.1 | 59.6 | 61.3 | 63.8 | 66.3 | — |
| 10 | TC | 458.9 | 429.0 | 414.1 | 404.1 | 389.2 | 374.3 | 359.4 | 349.4 | — | — | — |
| | kW | 99.1 | 105.5 | 108.6 | 110.7 | 113.9 | 117.1 | 120.2 | 122.3 | — | — | — |
| | SDT | 43.9 | 48.9 | 51.4 | 53.1 | 55.6 | 58.1 | 60.5 | 62.2 | — | — | — |

38AH124

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 347.1 | 321.5 | 308.7 | 300.1 | 287.3 | 274.5 | 261.7 | 253.2 | 240.4 | 227.6 | 214.8 |
| | kW | 92.5 | 96.5 | 98.5 | 99.8 | 101.7 | 103.7 | 105.7 | 107.0 | 109.0 | 110.9 | 112.9 |
| | SDT | 35.4 | 41.3 | 44.2 | 46.1 | 49.1 | 52.0 | 55.0 | 56.9 | 59.9 | 62.8 | 65.7 |
| 0 | TC | 377.2 | 350.1 | 336.6 | 327.6 | 314.1 | 300.6 | 287.1 | 278.1 | 264.6 | 251.1 | 237.6 |
| | kW | 95.3 | 99.8 | 102.1 | 103.6 | 105.9 | 108.2 | 110.5 | 112.0 | 114.3 | 116.6 | 118.8 |
| | SDT | 36.4 | 42.2 | 45.1 | 47.0 | 49.9 | 52.8 | 55.7 | 57.6 | 60.5 | 63.3 | 66.2 |
| 2 | TC | 407.3 | 378.8 | 364.6 | 355.1 | 340.9 | 326.7 | 312.5 | 303.0 | 288.8 | 274.6 | 260.4 |
| | kW | 98.0 | 103.2 | 105.8 | 107.5 | 110.1 | 112.7 | 115.3 | 117.0 | 119.6 | 122.2 | 124.8 |
| | SDT | 37.5 | 43.1 | 46.0 | 47.9 | 50.7 | 53.5 | 56.3 | 58.2 | 61.1 | 63.9 | 66.7 |
| 4 | TC | 437.4 | 407.5 | 392.6 | 382.6 | 367.7 | 352.8 | 337.9 | 327.9 | 313.0 | 298.1 | 283.2 |
| | kW | 100.7 | 106.5 | 109.4 | 111.4 | 114.3 | 117.2 | 120.1 | 122.0 | 124.9 | 127.8 | 130.7 |
| | SDT | 38.5 | 44.1 | 46.9 | 48.7 | 51.5 | 54.3 | 57.0 | 58.9 | 61.7 | 64.4 | 67.2 |
| 6 | TC | 467.4 | 436.2 | 420.6 | 410.2 | 394.5 | 378.9 | 363.3 | 352.9 | 337.2 | 321.6 | 306.0 |
| | kW | 103.5 | 109.9 | 113.1 | 115.2 | 118.4 | 121.7 | 124.9 | 127.0 | 130.2 | 133.4 | 136.7 |
| | SDT | 39.6 | 45.0 | 47.8 | 49.6 | 52.3 | 55.0 | 57.7 | 59.5 | 62.3 | 65.0 | 67.7 |
| 8 | TC | 497.5 | 464.9 | 448.5 | 437.7 | 421.3 | 405.0 | 388.7 | 377.8 | 361.4 | 345.1 | 328.8 |
| | kW | 106.2 | 113.2 | 116.8 | 119.1 | 122.6 | 126.1 | 129.7 | 132.0 | 135.5 | 139.1 | 142.6 |
| | SDT | 40.7 | 46.0 | 48.6 | 50.4 | 53.1 | 55.8 | 58.4 | 60.2 | 62.9 | 65.5 | 68.2 |
| 10 | TC | 527.6 | 493.6 | 476.5 | 465.2 | 448.1 | 431.1 | 414.0 | 402.7 | 385.6 | 368.6 | — |
| | kW | 108.9 | 116.6 | 120.4 | 123.0 | 126.8 | 130.6 | 134.5 | 137.0 | 140.9 | 144.7 | — |
| | SDT | 41.7 | 46.9 | 49.5 | 51.3 | 53.9 | 56.5 | 59.1 | 60.8 | 63.5 | 66.1 | — |

38AH134

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 384.1 | 357.5 | 344.2 | 335.4 | 322.1 | 308.7 | 295.4 | 286.6 | 273.3 | 260.0 | 246.7 |
| | kW | 104.2 | 108.6 | 110.8 | 112.2 | 114.4 | 116.6 | 118.8 | 120.3 | 122.4 | 124.6 | 126.8 |
| | SDT | 35.3 | 41.1 | 44.0 | 45.9 | 48.8 | 51.7 | 54.6 | 56.5 | 59.4 | 62.3 | 65.2 |
| 0 | TC | 417.0 | 388.8 | 374.7 | 365.3 | 351.2 | 337.1 | 323.0 | 313.6 | 299.5 | 285.4 | 271.3 |
| | kW | 107.5 | 112.5 | 115.0 | 116.7 | 119.2 | 121.7 | 124.2 | 125.9 | 128.4 | 130.9 | 133.4 |
| | SDT | 36.3 | 42.0 | 44.8 | 46.7 | 49.6 | 52.5 | 55.3 | 57.2 | 60.1 | 63.0 | 65.8 |
| 2 | TC | 449.8 | 420.0 | 405.1 | 395.2 | 380.3 | 365.4 | 350.5 | 340.6 | 325.7 | 310.8 | 295.9 |
| | kW | 110.8 | 116.5 | 119.3 | 121.2 | 124.0 | 126.8 | 129.7 | 131.5 | 134.4 | 137.2 | 140.0 |
| | SDT | 37.2 | 42.9 | 45.7 | 47.6 | 50.4 | 53.2 | 56.1 | 58.0 | 60.8 | 63.6 | 66.5 |
| 4 | TC | 482.6 | 451.2 | 435.6 | 425.1 | 409.4 | 393.7 | 378.0 | 367.6 | 351.9 | 336.2 | 320.5 |
| | kW | 114.1 | 120.4 | 123.5 | 125.6 | 128.8 | 131.9 | 135.1 | 137.2 | 140.3 | 143.5 | 146.6 |
| | SDT | 38.1 | 43.7 | 46.5 | 48.4 | 51.2 | 54.0 | 56.8 | 58.7 | 61.5 | 64.3 | 67.1 |
| 6 | TC | 515.4 | 482.5 | 466.0 | 455.0 | 438.5 | 422.1 | 405.6 | 394.6 | 378.1 | 361.6 | 345.1 |
| | kW | 117.4 | 124.3 | 127.8 | 130.1 | 133.6 | 137.0 | 140.5 | 142.8 | 146.3 | 149.8 | 153.2 |
| | SDT | 39.0 | 44.6 | 47.4 | 49.2 | 52.0 | 54.8 | 57.6 | 59.4 | 62.2 | 65.0 | 67.8 |
| 8 | TC | 548.3 | 513.7 | 496.4 | 484.9 | 467.7 | 450.4 | 433.1 | 421.6 | 404.3 | 387.0 | 369.8 |
| | kW | 120.7 | 128.3 | 132.0 | 134.6 | 138.4 | 142.2 | 145.9 | 148.5 | 152.3 | 156.0 | 159.8 |
| | SDT | 40.0 | 45.5 | 48.2 | 50.1 | 52.8 | 55.6 | 58.3 | 60.1 | 62.9 | 65.6 | 68.4 |
| 10 | TC | 581.1 | 545.0 | 526.9 | 514.8 | 496.8 | 478.7 | 460.6 | 448.6 | 430.5 | 412.5 | — |
| | kW | 124.0 | 132.2 | 136.3 | 139.0 | 143.2 | 147.3 | 151.4 | 154.1 | 158.2 | 162.3 | — |
| | SDT | 40.9 | 46.3 | 49.1 | 50.9 | 53.6 | 56.3 | 59.1 | 60.9 | 63.6 | 66.3 | — |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI

38AH044 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|------|------|------|------|------|------|------|------|------|------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 62.0 | 56.8 | 54.2 | 52.4 | 49.8 | 47.2 | 44.6 | 42.9 | 40.2 | 37.6 | 35.0 |
| | kW | 16.0 | 16.6 | 16.8 | 17.0 | 17.3 | 17.6 | 17.9 | 18.1 | 18.4 | 18.7 | 19.0 |
| | SDT | 33.1 | 39.0 | 42.0 | 43.9 | 46.9 | 49.8 | 52.7 | 54.7 | 57.6 | 60.6 | 63.5 |
| 0 | TC | 67.5 | 62.1 | 59.3 | 57.5 | 54.8 | 52.0 | 49.3 | 47.5 | 44.8 | 42.0 | 39.3 |
| | kW | 16.3 | 17.1 | 17.4 | 17.7 | 18.0 | 18.4 | 18.8 | 19.0 | 19.4 | 19.7 | 20.1 |
| | SDT | 34.2 | 40.0 | 42.9 | 44.8 | 47.7 | 50.6 | 53.4 | 55.4 | 58.2 | 61.1 | 64.0 |
| 2 | TC | 73.0 | 67.3 | 64.5 | 62.6 | 59.7 | 56.9 | 54.0 | 52.1 | 49.3 | 46.4 | 43.6 |
| | kW | 16.7 | 17.6 | 18.0 | 18.3 | 18.7 | 19.1 | 19.6 | 19.9 | 20.3 | 20.7 | 21.2 |
| | SDT | 35.3 | 40.9 | 43.7 | 45.6 | 48.5 | 51.3 | 54.1 | 56.0 | 58.8 | 61.7 | 64.5 |
| 4 | TC | 78.5 | 72.6 | 69.6 | 67.7 | 64.7 | 61.7 | 58.8 | 56.8 | 53.8 | 50.8 | 47.9 |
| | kW | 17.1 | 18.1 | 18.6 | 18.9 | 19.4 | 19.9 | 20.4 | 20.7 | 21.2 | 21.7 | 22.2 |
| | SDT | 36.3 | 41.9 | 44.6 | 46.5 | 49.3 | 52.0 | 54.8 | 56.7 | 59.4 | 62.2 | 65.0 |
| 6 | TC | 84.1 | 77.9 | 74.8 | 72.7 | 69.7 | 66.6 | 63.5 | 61.4 | 58.3 | 55.3 | 52.2 |
| | kW | 17.4 | 18.6 | 19.1 | 19.5 | 20.1 | 20.7 | 21.2 | 21.6 | 22.2 | 22.7 | 23.3 |
| | SDT | 37.4 | 42.8 | 45.5 | 47.3 | 50.1 | 52.8 | 55.5 | 57.3 | 60.0 | 62.8 | 65.5 |
| 8 | TC | 89.6 | 83.2 | 80.0 | 77.8 | 74.6 | 71.4 | 68.2 | 66.1 | 62.9 | 59.7 | 56.5 |
| | kW | 17.8 | 19.1 | 19.7 | 20.1 | 20.8 | 21.4 | 22.0 | 22.5 | 23.1 | 23.7 | 24.4 |
| | SDT | 38.4 | 43.8 | 46.4 | 48.2 | 50.9 | 53.5 | 56.2 | 58.0 | 60.6 | 63.3 | 66.0 |
| 10 | TC | 95.1 | 88.4 | 85.1 | 82.9 | 79.6 | 76.3 | 72.9 | 70.7 | 67.4 | 64.1 | — |
| | kW | 18.2 | 19.6 | 20.3 | 20.7 | 21.5 | 22.2 | 22.9 | 23.3 | 24.0 | 24.7 | — |
| | SDT | 39.5 | 44.7 | 47.3 | 49.1 | 51.7 | 54.3 | 56.9 | 58.6 | 61.2 | 63.9 | — |

38AH044 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|------|------|------|------|------|------|------|------|------|------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 62.6 | 57.0 | 54.3 | 52.4 | 49.6 | 46.9 | 44.1 | 42.2 | 39.5 | 36.7 | 33.9 |
| | kW | 15.8 | 16.5 | 16.9 | 17.1 | 17.5 | 17.8 | 18.2 | 18.4 | 18.8 | 19.1 | 19.5 |
| | SDT | 34.5 | 40.2 | 43.1 | 44.9 | 47.8 | 50.6 | 53.5 | 55.4 | 58.2 | 61.0 | 63.9 |
| 0 | TC | 68.5 | 62.7 | 59.8 | 57.9 | 55.0 | 52.1 | 49.2 | 47.3 | 44.4 | 41.5 | 38.6 |
| | kW | 16.1 | 17.0 | 17.4 | 17.7 | 18.1 | 18.5 | 18.9 | 19.2 | 19.6 | 20.1 | 20.5 |
| | SDT | 35.1 | 40.8 | 43.7 | 45.5 | 48.4 | 51.2 | 54.1 | 56.0 | 58.8 | 61.6 | 64.5 |
| 2 | TC | 74.4 | 68.4 | 65.4 | 63.4 | 60.4 | 57.4 | 54.4 | 52.4 | 49.4 | 46.3 | 43.3 |
| | kW | 16.4 | 17.4 | 17.9 | 18.2 | 18.7 | 19.2 | 19.7 | 20.0 | 20.5 | 21.0 | 21.5 |
| | SDT | 35.7 | 41.4 | 44.3 | 46.1 | 49.0 | 51.8 | 54.7 | 56.6 | 59.4 | 62.2 | 65.1 |
| 4 | TC | 80.4 | 74.1 | 71.0 | 68.9 | 65.8 | 62.6 | 59.5 | 57.4 | 54.3 | 51.2 | 48.1 |
| | kW | 16.7 | 17.8 | 18.4 | 18.8 | 19.3 | 19.9 | 20.4 | 20.8 | 21.4 | 21.9 | 22.5 |
| | SDT | 36.3 | 42.0 | 44.9 | 46.7 | 49.6 | 52.4 | 55.3 | 57.2 | 60.0 | 62.8 | 65.7 |
| 6 | TC | 86.3 | 79.8 | 76.6 | 74.4 | 71.2 | 67.9 | 64.7 | 62.5 | 59.3 | 56.0 | 52.8 |
| | kW | 17.0 | 18.3 | 18.9 | 19.3 | 19.9 | 20.6 | 21.2 | 21.6 | 22.2 | 22.8 | 23.5 |
| | SDT | 36.9 | 42.6 | 45.5 | 47.4 | 50.2 | 53.0 | 55.9 | 57.8 | 60.6 | 63.4 | 66.3 |
| 8 | TC | 92.2 | 85.5 | 82.1 | 79.9 | 76.5 | 73.2 | 69.8 | 67.6 | 64.2 | 60.8 | 57.5 |
| | kW | 17.3 | 18.7 | 19.4 | 19.8 | 20.5 | 21.2 | 21.9 | 22.4 | 23.1 | 23.8 | 24.5 |
| | SDT | 37.5 | 43.2 | 46.1 | 48.0 | 50.8 | 53.6 | 56.5 | 58.4 | 61.2 | 64.0 | 66.9 |
| 10 | TC | 98.2 | 91.2 | 87.7 | 85.4 | 81.9 | 78.4 | 75.0 | 72.6 | 69.1 | 65.7 | — |
| | kW | 17.6 | 19.1 | 19.9 | 20.4 | 21.2 | 21.9 | 22.7 | 23.2 | 23.9 | 24.7 | — |
| | SDT | 38.1 | 43.8 | 46.7 | 48.6 | 51.4 | 54.2 | 57.1 | 59.0 | 61.8 | 64.6 | — |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity, Gross (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI (cont)

38AH054 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|------|------|------|------|------|------|------|------|------|------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 64.1 | 58.4 | 55.5 | 53.6 | 50.7 | 47.8 | 44.9 | 43.0 | 40.1 | 37.3 | 34.4 |
| | kW | 16.4 | 16.9 | 17.2 | 17.4 | 17.7 | 18.0 | 18.2 | 18.4 | 18.7 | 19.0 | 19.3 |
| | SDT | 33.5 | 39.8 | 43.0 | 45.2 | 48.3 | 51.5 | 54.7 | 56.9 | 60.0 | 63.2 | 66.4 |
| 0 | TC | 69.7 | 63.8 | 60.9 | 58.9 | 56.0 | 53.0 | 50.1 | 48.1 | 45.2 | 42.3 | 39.3 |
| | kW | 16.6 | 17.3 | 17.7 | 17.9 | 18.3 | 18.6 | 19.0 | 19.2 | 19.6 | 20.0 | 20.3 |
| | SDT | 34.6 | 40.7 | 43.8 | 45.9 | 48.9 | 52.0 | 55.1 | 57.2 | 60.2 | 63.3 | 66.4 |
| 2 | TC | 75.3 | 69.3 | 66.3 | 64.3 | 61.3 | 58.3 | 55.3 | 53.3 | 50.3 | 47.3 | 44.3 |
| | kW | 16.9 | 17.7 | 18.2 | 18.5 | 18.9 | 19.3 | 19.8 | 20.1 | 20.5 | 20.9 | 21.4 |
| | SDT | 35.7 | 41.6 | 44.6 | 46.6 | 49.5 | 52.5 | 55.5 | 57.5 | 60.4 | 63.4 | 66.4 |
| 4 | TC | 80.8 | 74.7 | 71.6 | 69.6 | 66.5 | 63.5 | 60.4 | 58.4 | 55.3 | 52.2 | 49.2 |
| | kW | 17.1 | 18.1 | 18.7 | 19.0 | 19.5 | 20.0 | 20.5 | 20.9 | 21.4 | 21.9 | 22.4 |
| | SDT | 36.8 | 42.5 | 45.4 | 47.3 | 50.1 | 53.0 | 55.9 | 57.8 | 60.6 | 63.5 | 66.4 |
| 6 | TC | 86.4 | 80.1 | 77.0 | 74.9 | 71.8 | 68.7 | 65.6 | 63.5 | 60.4 | 57.2 | 54.1 |
| | kW | 17.4 | 18.5 | 19.1 | 19.5 | 20.1 | 20.7 | 21.3 | 21.7 | 22.3 | 22.9 | 23.5 |
| | SDT | 37.9 | 43.4 | 46.2 | 48.0 | 50.7 | 53.5 | 56.3 | 58.1 | 60.8 | 63.6 | 66.3 |
| 8 | TC | 91.9 | 85.6 | 82.4 | 80.3 | 77.1 | 73.9 | 70.7 | 68.6 | 65.4 | 62.2 | 59.0 |
| | kW | 17.6 | 19.0 | 19.6 | 20.1 | 20.7 | 21.4 | 22.1 | 22.5 | 23.2 | 23.9 | 24.5 |
| | SDT | 39.0 | 44.3 | 46.9 | 48.7 | 51.3 | 54.0 | 56.6 | 58.4 | 61.0 | 63.7 | 66.3 |
| 10 | TC | 97.5 | 91.0 | 87.8 | 85.6 | 82.4 | 79.1 | 75.9 | 73.7 | 70.5 | 67.2 | — |
| | kW | 17.9 | 19.4 | 20.1 | 20.6 | 21.4 | 22.1 | 22.8 | 23.3 | 24.1 | 24.8 | — |
| | SDT | 40.1 | 45.2 | 47.7 | 49.4 | 51.9 | 54.5 | 57.0 | 58.7 | 61.2 | 63.8 | — |

38AH054 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|------|------|------|------|------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 80.4 | 74.5 | 71.6 | 69.6 | 66.6 | 63.7 | 60.8 | 58.8 | 55.8 | 52.9 | 50.0 |
| | kW | 22.0 | 23.0 | 23.5 | 23.8 | 24.3 | 24.8 | 25.3 | 25.6 | 26.1 | 26.5 | 27.0 |
| | SDT | 37.5 | 43.2 | 46.0 | 47.9 | 50.8 | 53.6 | 56.4 | 58.3 | 61.2 | 64.0 | 66.8 |
| 0 | TC | 87.7 | 81.4 | 78.2 | 76.1 | 73.0 | 69.8 | 66.7 | 64.6 | 61.4 | 58.3 | 55.1 |
| | kW | 22.8 | 23.9 | 24.4 | 24.8 | 25.3 | 25.9 | 26.4 | 26.8 | 27.4 | 27.9 | 28.5 |
| | SDT | 38.3 | 44.0 | 46.8 | 48.7 | 51.6 | 54.4 | 57.2 | 59.1 | 62.0 | 64.8 | 67.6 |
| 2 | TC | 95.0 | 88.3 | 84.9 | 82.7 | 79.3 | 76.0 | 72.6 | 70.4 | 67.0 | 63.7 | 60.3 |
| | kW | 23.5 | 24.7 | 25.3 | 25.8 | 26.4 | 27.0 | 27.6 | 28.0 | 28.6 | 29.3 | 29.9 |
| | SDT | 39.1 | 44.8 | 47.6 | 49.5 | 52.4 | 55.2 | 58.0 | 59.9 | 62.8 | 65.6 | 68.4 |
| 4 | TC | 102.3 | 95.1 | 91.6 | 89.2 | 85.6 | 82.1 | 78.5 | 76.1 | 72.6 | 69.0 | 65.5 |
| | kW | 24.2 | 25.6 | 26.3 | 26.7 | 27.4 | 28.1 | 28.8 | 29.3 | 29.9 | 30.6 | 31.3 |
| | SDT | 39.9 | 45.6 | 48.4 | 50.3 | 53.2 | 56.0 | 58.8 | 60.7 | 63.6 | 66.4 | 69.2 |
| 6 | TC | 109.5 | 102.0 | 98.2 | 95.7 | 92.0 | 88.2 | 84.4 | 81.9 | 78.2 | 74.4 | 70.6 |
| | kW | 24.9 | 26.4 | 27.2 | 27.7 | 28.5 | 29.2 | 30.0 | 30.5 | 31.2 | 32.0 | 32.7 |
| | SDT | 40.7 | 46.4 | 49.2 | 51.1 | 54.0 | 56.8 | 59.6 | 61.5 | 64.4 | 67.2 | 70.0 |
| 8 | TC | 116.8 | 108.9 | 104.9 | 102.3 | 98.3 | 94.3 | 90.4 | 87.7 | 83.7 | 79.8 | — |
| | kW | 25.7 | 27.3 | 28.1 | 28.7 | 29.5 | 30.3 | 31.2 | 31.7 | 32.5 | 33.3 | — |
| | SDT | 41.5 | 47.2 | 50.0 | 51.9 | 54.8 | 57.6 | 60.4 | 62.3 | 65.2 | 68.0 | — |
| 10 | TC | 124.1 | 115.8 | 111.6 | 108.8 | 104.6 | 100.5 | 96.3 | 93.5 | 89.3 | — | — |
| | kW | 26.4 | 28.2 | 29.1 | 29.7 | 30.6 | 31.4 | 32.3 | 32.9 | 33.8 | — | — |
| | SDT | 42.3 | 48.0 | 50.8 | 52.7 | 55.6 | 58.4 | 61.2 | 63.1 | 66.0 | — | — |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI (cont)

38AH064 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|------|------|------|------|------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 81.9 | 75.7 | 72.7 | 70.6 | 67.5 | 64.4 | 61.4 | 59.3 | 56.2 | 53.2 | 50.1 |
| | kW | 21.6 | 22.6 | 23.1 | 23.4 | 24.0 | 24.5 | 25.0 | 25.3 | 25.8 | 26.3 | 26.9 |
| | SDT | 35.0 | 40.9 | 43.8 | 45.8 | 48.7 | 51.7 | 54.6 | 56.6 | 59.5 | 62.4 | 65.4 |
| 0 | TC | 89.0 | 82.5 | 79.3 | 77.1 | 73.9 | 70.6 | 67.3 | 65.2 | 61.9 | 58.7 | 55.4 |
| | kW | 22.3 | 23.4 | 24.0 | 24.4 | 25.0 | 25.5 | 26.1 | 26.5 | 27.1 | 27.7 | 28.2 |
| | SDT | 36.3 | 42.0 | 44.9 | 46.8 | 49.7 | 52.6 | 55.5 | 57.4 | 60.3 | 63.2 | 66.1 |
| 2 | TC | 96.2 | 89.3 | 85.9 | 83.6 | 80.2 | 76.8 | 73.3 | 71.0 | 67.6 | 64.2 | 60.7 |
| | kW | 22.9 | 24.2 | 24.9 | 25.3 | 26.0 | 26.6 | 27.3 | 27.7 | 28.3 | 29.0 | 29.6 |
| | SDT | 37.5 | 43.2 | 46.0 | 47.9 | 50.7 | 53.6 | 56.4 | 58.3 | 61.1 | 63.9 | 66.8 |
| 4 | TC | 103.4 | 96.1 | 92.5 | 90.1 | 86.5 | 82.9 | 79.3 | 76.9 | 73.3 | 69.7 | 66.1 |
| | kW | 23.6 | 25.1 | 25.8 | 26.3 | 27.0 | 27.7 | 28.4 | 28.9 | 29.6 | 30.3 | 31.0 |
| | SDT | 38.8 | 44.3 | 47.1 | 48.9 | 51.7 | 54.5 | 57.3 | 59.1 | 61.9 | 64.7 | 67.4 |
| 6 | TC | 110.5 | 102.9 | 99.2 | 96.6 | 92.8 | 89.1 | 85.3 | 82.8 | 79.0 | 75.2 | 71.4 |
| | kW | 24.3 | 25.9 | 26.7 | 27.2 | 28.0 | 28.8 | 29.6 | 30.1 | 30.9 | 31.6 | 32.4 |
| | SDT | 40.0 | 45.5 | 48.2 | 50.0 | 52.7 | 55.4 | 58.2 | 60.0 | 62.7 | 65.4 | 68.1 |
| 8 | TC | 117.7 | 109.7 | 105.8 | 103.1 | 99.2 | 95.2 | 91.3 | 88.6 | 84.7 | 80.7 | 76.7 |
| | kW | 25.0 | 26.7 | 27.6 | 28.1 | 29.0 | 29.8 | 30.7 | 31.3 | 32.1 | 33.0 | 33.8 |
| | SDT | 41.3 | 46.6 | 49.3 | 51.1 | 53.7 | 56.4 | 59.1 | 60.8 | 63.5 | 66.2 | 68.8 |
| 10 | TC | 124.8 | 116.5 | 112.4 | 109.6 | 105.5 | 101.4 | 97.2 | 94.5 | 90.3 | 86.2 | 82.1 |
| | kW | 25.7 | 27.5 | 28.5 | 29.1 | 30.0 | 30.9 | 31.8 | 32.5 | 33.4 | 34.3 | 35.2 |
| | SDT | 42.5 | 47.8 | 50.4 | 52.1 | 54.7 | 57.3 | 59.9 | 61.7 | 64.3 | 66.9 | 69.5 |

38AH064 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 92.2 | 85.3 | 81.8 | 79.5 | 76.0 | 72.6 | 69.1 | 66.8 | 63.4 | 59.9 | 56.5 |
| | kW | 24.9 | 25.8 | 26.2 | 26.5 | 27.0 | 27.4 | 27.9 | 28.2 | 28.7 | 29.1 | 29.6 |
| | SDT | 35.3 | 41.0 | 43.8 | 45.7 | 48.5 | 51.4 | 54.2 | 56.1 | 58.9 | 61.8 | 64.6 |
| 0 | TC | 99.8 | 92.6 | 89.0 | 86.6 | 83.0 | 79.4 | 75.8 | 73.4 | 69.8 | 66.2 | 62.6 |
| | kW | 25.4 | 26.6 | 27.1 | 27.5 | 28.0 | 28.6 | 29.1 | 29.5 | 30.1 | 30.6 | 31.2 |
| | SDT | 36.1 | 41.8 | 44.6 | 46.5 | 49.3 | 52.2 | 55.0 | 56.9 | 59.7 | 62.6 | 65.4 |
| 2 | TC | 107.5 | 100.0 | 96.2 | 93.7 | 90.0 | 86.2 | 82.5 | 80.0 | 76.2 | 72.5 | 68.7 |
| | kW | 26.0 | 27.3 | 28.0 | 28.4 | 29.1 | 29.7 | 30.4 | 30.8 | 31.5 | 32.1 | 32.8 |
| | SDT | 36.9 | 42.6 | 45.4 | 47.3 | 50.1 | 53.0 | 55.8 | 57.7 | 60.5 | 63.4 | 66.2 |
| 4 | TC | 115.1 | 107.3 | 103.4 | 100.8 | 96.9 | 93.0 | 89.1 | 86.5 | 82.6 | 78.7 | 74.8 |
| | kW | 26.6 | 28.1 | 28.9 | 29.4 | 30.1 | 30.9 | 31.6 | 32.1 | 32.9 | 33.6 | 34.4 |
| | SDT | 37.7 | 43.4 | 46.2 | 48.1 | 50.9 | 53.8 | 56.6 | 58.5 | 61.3 | 64.2 | 67.0 |
| 6 | TC | 122.8 | 114.7 | 110.6 | 107.9 | 103.9 | 99.8 | 95.8 | 93.1 | 89.1 | 85.0 | 81.0 |
| | kW | 27.2 | 28.9 | 29.8 | 30.3 | 31.2 | 32.0 | 32.9 | 33.4 | 34.3 | 35.1 | 35.9 |
| | SDT | 38.5 | 44.2 | 47.0 | 48.9 | 51.7 | 54.6 | 57.4 | 59.3 | 62.1 | 65.0 | 67.8 |
| 8 | TC | 130.4 | 122.0 | 117.8 | 115.1 | 110.9 | 106.7 | 102.5 | 99.7 | 95.5 | 91.3 | 87.1 |
| | kW | 27.8 | 29.7 | 30.6 | 31.3 | 32.2 | 33.1 | 34.1 | 34.7 | 35.7 | 36.6 | 37.5 |
| | SDT | 39.3 | 45.0 | 47.8 | 49.7 | 52.5 | 55.4 | 58.2 | 60.1 | 62.9 | 65.8 | 68.6 |
| 10 | TC | 138.1 | 129.4 | 125.1 | 122.2 | 117.8 | 113.5 | 109.1 | 106.2 | 101.9 | 97.5 | 93.2 |
| | kW | 28.4 | 30.5 | 31.5 | 32.2 | 33.3 | 34.3 | 35.3 | 36.0 | 37.1 | 38.1 | 39.1 |
| | SDT | 40.1 | 45.8 | 48.6 | 50.5 | 53.3 | 56.2 | 59.0 | 60.9 | 63.7 | 66.6 | 69.4 |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI (cont)

38AH074 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 94.6 | 87.8 | 84.5 | 82.2 | 78.8 | 75.5 | 72.1 | 69.8 | 66.5 | 63.1 | 59.7 |
| | kW | 24.9 | 25.9 | 26.4 | 26.7 | 27.2 | 28.2 | 28.5 | 29.0 | 29.0 | 29.4 | 29.9 |
| | SDT | 33.9 | 39.8 | 42.7 | 44.7 | 47.6 | 50.6 | 53.5 | 55.5 | 58.4 | 61.3 | 64.3 |
| 0 | TC | 102.5 | 95.4 | 91.9 | 89.5 | 86.0 | 82.4 | 78.9 | 76.6 | 73.0 | 69.5 | 66.0 |
| | kW | 25.6 | 26.8 | 27.3 | 27.7 | 28.3 | 28.9 | 29.4 | 29.8 | 30.4 | 31.0 | 31.5 |
| | SDT | 35.1 | 40.9 | 43.8 | 45.7 | 48.6 | 51.5 | 54.4 | 56.3 | 59.2 | 62.1 | 65.0 |
| 2 | TC | 110.3 | 102.9 | 99.3 | 96.8 | 93.1 | 89.4 | 85.8 | 83.3 | 79.6 | 75.9 | 72.3 |
| | kW | 26.3 | 27.6 | 28.3 | 28.7 | 29.4 | 30.1 | 30.7 | 31.2 | 31.8 | 32.5 | 33.1 |
| | SDT | 36.4 | 42.1 | 44.9 | 46.8 | 49.6 | 52.4 | 55.3 | 57.2 | 60.0 | 62.8 | 65.6 |
| 4 | TC | 118.1 | 110.5 | 106.6 | 104.1 | 100.3 | 96.4 | 92.6 | 90.0 | 86.2 | 82.4 | 78.5 |
| | kW | 27.0 | 28.5 | 29.2 | 29.7 | 30.5 | 31.2 | 32.0 | 32.5 | 33.2 | 34.0 | 34.7 |
| | SDT | 37.7 | 43.2 | 46.0 | 47.8 | 50.6 | 53.4 | 56.2 | 58.0 | 60.8 | 63.6 | 66.3 |
| 6 | TC | 126.0 | 118.0 | 114.0 | 111.4 | 107.4 | 103.4 | 99.4 | 96.8 | 92.8 | 88.8 | 84.8 |
| | kW | 27.7 | 29.4 | 30.2 | 30.8 | 31.6 | 32.4 | 33.3 | 33.8 | 34.7 | 35.5 | 36.3 |
| | SDT | 38.9 | 44.4 | 47.1 | 48.9 | 51.6 | 54.3 | 57.1 | 58.9 | 61.6 | 64.3 | 67.0 |
| 8 | TC | 133.8 | 125.6 | 121.4 | 118.7 | 114.5 | 110.4 | 106.3 | 103.5 | 99.4 | 95.2 | 91.1 |
| | kW | 28.4 | 30.2 | 31.1 | 31.8 | 32.7 | 33.6 | 34.5 | 35.2 | 36.1 | 37.0 | 37.9 |
| | SDT | 40.2 | 45.5 | 48.2 | 49.9 | 52.6 | 55.3 | 57.9 | 59.7 | 62.4 | 65.0 | 67.7 |
| 10 | TC | 141.7 | 133.1 | 128.8 | 126.0 | 121.7 | 117.4 | 113.1 | 110.2 | 105.9 | 101.6 | — |
| | kW | 29.1 | 31.1 | 32.1 | 32.8 | 33.8 | 34.8 | 35.8 | 36.5 | 37.5 | 38.5 | — |
| | SDT | 41.4 | 46.7 | 49.3 | 51.0 | 53.6 | 56.2 | 58.8 | 60.6 | 63.2 | 65.8 | — |

38AH074 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 123.1 | 115.5 | 111.7 | 109.1 | 105.3 | 101.5 | 97.7 | 95.2 | 91.4 | 87.6 | 83.8 |
| | kW | 35.0 | 36.4 | 37.1 | 37.6 | 38.3 | 39.0 | 39.7 | 40.2 | 40.9 | 41.6 | 42.3 |
| | SDT | 37.0 | 42.2 | 44.8 | 46.5 | 49.1 | 51.7 | 54.3 | 56.0 | 58.6 | 61.2 | 63.8 |
| 0 | TC | 133.3 | 125.2 | 121.1 | 118.4 | 114.3 | 110.2 | 106.2 | 103.4 | 99.4 | 95.3 | 91.2 |
| | kW | 36.2 | 37.8 | 38.6 | 39.2 | 40.0 | 40.8 | 41.6 | 42.1 | 42.9 | 43.7 | 44.5 |
| | SDT | 37.6 | 42.8 | 45.5 | 47.2 | 49.9 | 52.5 | 55.2 | 56.9 | 59.6 | 62.2 | 64.9 |
| 2 | TC | 143.6 | 134.9 | 130.6 | 127.7 | 123.3 | 119.0 | 114.6 | 111.7 | 107.3 | 103.0 | 98.6 |
| | kW | 37.5 | 39.3 | 40.2 | 40.8 | 41.7 | 42.5 | 43.4 | 44.0 | 44.9 | 45.8 | 46.7 |
| | SDT | 38.1 | 43.5 | 46.2 | 48.0 | 50.7 | 53.4 | 56.1 | 57.9 | 60.6 | 63.3 | 66.0 |
| 4 | TC | 153.9 | 144.6 | 140.0 | 136.9 | 132.3 | 127.7 | 123.0 | 120.0 | 115.3 | 110.7 | 106.1 |
| | kW | 38.8 | 40.7 | 41.7 | 42.4 | 43.3 | 44.3 | 45.3 | 45.9 | 46.9 | 47.9 | 48.9 |
| | SDT | 38.7 | 44.2 | 46.9 | 48.7 | 51.5 | 54.2 | 57.0 | 58.8 | 61.6 | 64.3 | 67.1 |
| 6 | TC | 164.1 | 154.3 | 149.4 | 146.2 | 141.3 | 136.4 | 131.5 | 128.2 | 123.3 | 118.4 | 113.5 |
| | kW | 40.0 | 42.2 | 43.2 | 43.9 | 45.0 | 46.1 | 47.2 | 47.9 | 48.9 | 50.0 | 51.1 |
| | SDT | 39.2 | 44.8 | 47.6 | 49.5 | 52.3 | 55.1 | 57.9 | 59.8 | 62.6 | 65.4 | 68.2 |
| 8 | TC | 174.4 | 164.1 | 158.9 | 155.4 | 150.3 | 145.1 | 139.9 | 136.5 | 131.3 | 126.1 | 121.0 |
| | kW | 41.3 | 43.6 | 44.8 | 45.5 | 46.7 | 47.9 | 49.0 | 49.8 | 51.0 | 52.1 | 53.3 |
| | SDT | 39.8 | 45.5 | 48.3 | 50.2 | 53.1 | 55.9 | 58.8 | 60.7 | 63.6 | 66.4 | 69.3 |
| 10 | TC | 184.7 | 173.8 | 168.3 | 164.7 | 159.3 | 153.8 | 148.4 | 144.7 | 139.3 | — | — |
| | kW | 42.5 | 45.0 | 46.3 | 47.1 | 48.4 | 49.6 | 50.9 | 51.7 | 53.0 | — | — |
| | SDT | 40.3 | 46.1 | 49.0 | 51.0 | 53.9 | 56.8 | 59.7 | 61.7 | 64.6 | — | — |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI (cont)

38AH084 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 125.0 | 116.8 | 112.7 | 109.9 | 105.8 | 101.7 | 97.6 | 94.9 | 90.8 | 86.7 | 82.6 |
| | kW | 35.6 | 37.0 | 37.7 | 38.2 | 38.8 | 39.5 | 40.2 | 40.7 | 41.4 | 42.1 | 42.8 |
| | SDT | 33.9 | 39.8 | 42.7 | 44.7 | 47.6 | 50.6 | 53.5 | 55.5 | 58.4 | 61.3 | 64.3 |
| 0 | TC | 135.7 | 127.0 | 122.6 | 119.7 | 115.4 | 111.0 | 106.7 | 103.8 | 99.4 | 95.1 | 90.7 |
| | kW | 36.8 | 38.3 | 39.1 | 39.7 | 40.4 | 41.2 | 42.0 | 42.6 | 43.4 | 44.1 | 44.9 |
| | SDT | 35.1 | 40.9 | 43.8 | 45.7 | 48.6 | 51.5 | 54.4 | 56.3 | 59.2 | 62.1 | 65.0 |
| 2 | TC | 146.4 | 137.2 | 132.6 | 129.5 | 124.9 | 120.3 | 115.7 | 112.7 | 108.1 | 103.5 | 98.9 |
| | kW | 37.9 | 39.7 | 40.6 | 41.2 | 42.1 | 42.9 | 43.8 | 44.4 | 45.3 | 46.2 | 47.1 |
| | SDT | 36.4 | 42.1 | 44.9 | 46.8 | 49.6 | 52.4 | 55.3 | 57.2 | 60.0 | 62.8 | 65.6 |
| 4 | TC | 157.0 | 147.4 | 142.5 | 139.3 | 134.5 | 129.6 | 124.8 | 121.5 | 116.7 | 111.9 | 107.0 |
| | kW | 39.0 | 41.0 | 42.0 | 42.7 | 43.7 | 44.7 | 45.6 | 46.3 | 47.3 | 48.3 | 49.3 |
| | SDT | 37.7 | 43.2 | 46.0 | 47.8 | 50.6 | 53.4 | 56.2 | 58.0 | 60.8 | 63.6 | 66.3 |
| 6 | TC | 167.7 | 157.6 | 152.5 | 149.1 | 144.0 | 138.9 | 133.8 | 130.4 | 125.3 | 120.3 | 115.2 |
| | kW | 40.2 | 42.4 | 43.4 | 44.2 | 45.3 | 46.4 | 47.5 | 48.2 | 49.3 | 50.4 | 51.5 |
| | SDT | 38.9 | 44.4 | 47.1 | 48.9 | 51.6 | 54.3 | 57.1 | 58.9 | 61.6 | 64.3 | 67.0 |
| 8 | TC | 178.4 | 167.7 | 162.4 | 158.9 | 153.5 | 148.2 | 142.9 | 139.3 | 134.0 | 128.7 | 123.3 |
| | kW | 41.3 | 43.7 | 44.9 | 45.7 | 46.9 | 48.1 | 49.3 | 50.1 | 51.2 | 52.4 | 53.6 |
| | SDT | 40.2 | 45.5 | 48.2 | 49.9 | 52.6 | 55.3 | 57.9 | 59.7 | 62.4 | 65.0 | 67.7 |
| 10 | TC | 189.1 | 177.9 | 172.4 | 168.6 | 163.1 | 157.5 | 151.9 | 148.2 | 142.6 | — | — |
| | kW | 42.4 | 45.0 | 46.3 | 47.2 | 48.5 | 49.8 | 51.1 | 51.9 | 53.2 | — | — |
| | SDT | 41.4 | 46.7 | 49.3 | 51.0 | 53.6 | 56.2 | 58.8 | 60.6 | 63.2 | — | — |

38AH084 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 125.5 | 117.3 | 113.2 | 110.5 | 106.3 | 102.2 | 98.1 | 95.4 | 91.3 | 87.2 | 83.1 |
| | kW | 35.0 | 36.5 | 37.2 | 37.7 | 38.5 | 39.2 | 39.9 | 40.4 | 41.2 | 41.9 | 42.6 |
| | SDT | 37.0 | 42.2 | 44.8 | 46.5 | 49.1 | 51.7 | 54.3 | 56.0 | 58.6 | 61.2 | 63.8 |
| 0 | TC | 136.1 | 127.4 | 123.0 | 120.1 | 115.8 | 111.4 | 107.1 | 104.2 | 99.8 | 95.5 | 91.1 |
| | kW | 36.2 | 37.9 | 38.7 | 39.3 | 40.1 | 40.9 | 41.8 | 42.3 | 43.1 | 44.0 | 44.8 |
| | SDT | 37.6 | 42.8 | 45.5 | 47.2 | 49.9 | 52.5 | 55.2 | 56.9 | 59.6 | 62.2 | 64.9 |
| 2 | TC | 146.7 | 137.5 | 132.9 | 129.8 | 125.2 | 120.6 | 116.0 | 112.9 | 108.4 | 103.8 | 99.2 |
| | kW | 37.5 | 39.3 | 40.2 | 40.8 | 41.7 | 42.7 | 43.6 | 44.2 | 45.1 | 46.0 | 47.0 |
| | SDT | 38.1 | 43.5 | 46.2 | 48.0 | 50.7 | 53.4 | 56.1 | 57.9 | 60.6 | 63.3 | 66.0 |
| 4 | TC | 157.2 | 147.5 | 142.7 | 139.5 | 134.6 | 129.8 | 125.0 | 121.7 | 116.9 | 112.0 | 107.2 |
| | kW | 38.7 | 40.7 | 41.7 | 42.4 | 43.4 | 44.4 | 45.4 | 46.1 | 47.1 | 48.1 | 49.1 |
| | SDT | 38.7 | 44.2 | 46.9 | 48.7 | 51.5 | 54.2 | 57.0 | 58.8 | 61.6 | 64.3 | 67.1 |
| 6 | TC | 167.8 | 157.6 | 152.5 | 149.1 | 144.1 | 139.0 | 133.9 | 130.5 | 125.4 | 120.3 | 115.2 |
| | kW | 39.9 | 42.1 | 43.2 | 43.9 | 45.0 | 46.1 | 47.2 | 48.0 | 49.1 | 50.2 | 51.3 |
| | SDT | 39.2 | 44.8 | 47.6 | 49.5 | 52.3 | 55.1 | 57.9 | 59.8 | 62.6 | 65.4 | 68.2 |
| 8 | TC | 178.4 | 167.7 | 162.4 | 158.8 | 153.5 | 148.2 | 142.8 | 139.3 | 133.9 | 128.6 | 123.3 |
| | kW | 41.1 | 43.5 | 44.7 | 45.5 | 46.7 | 47.9 | 49.1 | 49.8 | 51.0 | 52.2 | 53.4 |
| | SDT | 39.8 | 45.5 | 48.3 | 50.2 | 53.1 | 55.9 | 58.8 | 60.7 | 63.6 | 66.4 | 69.3 |
| 10 | TC | 188.9 | 177.8 | 172.2 | 168.5 | 162.9 | 157.3 | 151.8 | 148.0 | 142.5 | — | — |
| | kW | 42.3 | 44.9 | 46.2 | 47.0 | 48.3 | 49.6 | 50.9 | 51.7 | 53.0 | — | — |
| | SDT | 40.3 | 46.1 | 49.0 | 51.0 | 53.9 | 56.8 | 59.7 | 61.7 | 64.6 | — | — |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI (cont)

38AH094 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 151.9 | 140.3 | 134.5 | 130.7 | 124.9 | 119.1 | 113.3 | 109.4 | 103.6 | 97.8 | 92.0 |
| | kW | 41.7 | 43.0 | 43.7 | 44.1 | 44.8 | 45.5 | 46.1 | 46.6 | 47.3 | 47.9 | 48.6 |
| | SDT | 37.3 | 42.7 | 45.4 | 47.1 | 49.8 | 52.5 | 55.2 | 57.0 | 59.7 | 62.4 | 65.1 |
| 0 | TC | 164.2 | 152.2 | 146.1 | 142.1 | 136.0 | 130.0 | 124.0 | 119.9 | 113.9 | 107.9 | 101.8 |
| | kW | 43.1 | 44.7 | 45.5 | 46.0 | 46.8 | 47.6 | 48.4 | 49.0 | 49.8 | 50.6 | 51.4 |
| | SDT | 38.3 | 43.7 | 46.4 | 48.1 | 50.8 | 53.5 | 56.2 | 58.0 | 60.7 | 63.4 | 66.1 |
| 2 | TC | 176.5 | 164.0 | 157.7 | 153.5 | 147.2 | 141.0 | 134.7 | 130.5 | 124.2 | 118.0 | 111.7 |
| | kW | 44.4 | 46.3 | 47.3 | 47.9 | 48.8 | 49.8 | 50.7 | 51.4 | 52.3 | 53.2 | 54.2 |
| | SDT | 39.3 | 44.7 | 47.4 | 49.1 | 51.8 | 54.5 | 57.2 | 59.0 | 61.7 | 64.4 | 67.1 |
| 4 | TC | 188.8 | 175.8 | 169.3 | 164.9 | 158.4 | 151.9 | 145.4 | 141.1 | 134.5 | 128.0 | 121.5 |
| | kW | 45.8 | 48.0 | 49.1 | 49.8 | 50.9 | 51.9 | 53.0 | 53.7 | 54.8 | 55.9 | 57.0 |
| | SDT | 40.3 | 45.7 | 48.4 | 50.1 | 52.8 | 55.5 | 58.2 | 60.0 | 62.7 | 65.4 | 68.1 |
| 6 | TC | 201.1 | 187.6 | 180.8 | 176.4 | 169.6 | 162.9 | 156.1 | 151.6 | 144.9 | 138.1 | 131.4 |
| | kW | 47.2 | 49.6 | 50.8 | 51.7 | 52.9 | 54.1 | 55.3 | 56.1 | 57.3 | 58.5 | 59.8 |
| | SDT | 41.3 | 46.7 | 49.4 | 51.1 | 53.8 | 56.5 | 59.2 | 61.0 | 63.7 | 66.4 | 69.1 |
| 8 | TC | 213.4 | 199.4 | 192.4 | 187.8 | 180.8 | 173.8 | 166.8 | 162.2 | 155.2 | 148.2 | 141.2 |
| | kW | 48.6 | 51.3 | 52.6 | 53.5 | 54.9 | 56.2 | 57.6 | 58.5 | 59.8 | 61.2 | 62.5 |
| | SDT | 42.3 | 47.7 | 50.4 | 52.1 | 54.8 | 57.5 | 60.2 | 62.0 | 64.7 | 67.4 | 70.0 |
| 10 | TC | 225.7 | 211.2 | 204.0 | 199.2 | 192.0 | 184.7 | 177.5 | 172.7 | 165.5 | 158.3 | — |
| | kW | 50.0 | 52.9 | 54.4 | 55.4 | 56.9 | 58.4 | 59.9 | 60.9 | 62.3 | 63.8 | — |
| | SDT | 43.3 | 48.7 | 51.4 | 53.1 | 55.8 | 58.5 | 61.2 | 63.0 | 65.7 | 68.4 | — |

38AH094 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 120.1 | 112.6 | 108.8 | 106.2 | 102.5 | 98.7 | 94.9 | 92.3 | 88.5 | 84.8 | 81.0 |
| | kW | 33.1 | 34.6 | 35.3 | 35.8 | 36.6 | 37.4 | 38.1 | 38.6 | 39.4 | 40.1 | 40.9 |
| | SDT | 33.9 | 39.8 | 42.7 | 44.7 | 47.6 | 50.6 | 53.5 | 55.5 | 58.4 | 61.3 | 64.3 |
| 0 | TC | 130.1 | 122.1 | 118.0 | 115.3 | 111.3 | 107.3 | 103.3 | 100.6 | 96.5 | 92.5 | 88.5 |
| | kW | 34.3 | 36.0 | 36.8 | 37.3 | 38.2 | 39.0 | 39.8 | 40.4 | 41.2 | 42.1 | 42.9 |
| | SDT | 35.1 | 40.9 | 43.8 | 45.7 | 48.6 | 51.5 | 54.4 | 56.3 | 59.2 | 62.1 | 65.0 |
| 2 | TC | 140.1 | 131.5 | 127.3 | 124.4 | 120.2 | 115.9 | 111.6 | 108.8 | 104.5 | 100.3 | 96.0 |
| | kW | 35.5 | 37.3 | 38.2 | 38.9 | 39.8 | 40.7 | 41.6 | 42.2 | 43.1 | 44.0 | 44.9 |
| | SDT | 36.4 | 42.1 | 44.9 | 46.8 | 49.6 | 52.4 | 55.3 | 57.2 | 60.0 | 62.8 | 65.6 |
| 4 | TC | 150.0 | 141.0 | 136.5 | 133.5 | 129.0 | 124.5 | 120.0 | 117.0 | 112.5 | 108.0 | 103.5 |
| | kW | 36.7 | 38.7 | 39.7 | 40.4 | 41.3 | 42.3 | 43.3 | 44.0 | 45.0 | 46.0 | 47.0 |
| | SDT | 37.7 | 43.2 | 46.0 | 47.8 | 50.6 | 53.4 | 56.2 | 58.0 | 60.8 | 63.6 | 66.3 |
| 6 | TC | 160.0 | 150.5 | 145.8 | 142.6 | 137.9 | 133.2 | 128.4 | 125.3 | 120.5 | 115.8 | 111.1 |
| | kW | 38.0 | 40.1 | 41.2 | 41.9 | 42.9 | 44.0 | 45.1 | 45.8 | 46.8 | 47.9 | 49.0 |
| | SDT | 38.9 | 44.4 | 47.1 | 48.9 | 51.6 | 54.3 | 57.1 | 58.9 | 61.6 | 64.3 | 67.0 |
| 8 | TC | 170.0 | 160.0 | 155.0 | 151.7 | 146.8 | 141.8 | 136.8 | 133.5 | 128.5 | 123.6 | 118.6 |
| | kW | 39.2 | 41.5 | 42.6 | 43.4 | 44.5 | 45.7 | 46.8 | 47.6 | 48.7 | 49.9 | 51.0 |
| | SDT | 40.2 | 45.5 | 48.2 | 49.9 | 52.6 | 55.3 | 57.9 | 59.7 | 62.4 | 65.0 | 67.7 |
| 10 | TC | 179.9 | 169.5 | 164.3 | 160.8 | 155.6 | 150.4 | 145.2 | 141.7 | 136.5 | 131.3 | 126.1 |
| | kW | 40.4 | 42.8 | 44.1 | 44.9 | 46.1 | 47.3 | 48.5 | 49.4 | 50.6 | 51.8 | 53.0 |
| | SDT | 41.4 | 46.7 | 49.3 | 51.0 | 53.6 | 56.2 | 58.8 | 60.6 | 63.2 | 65.8 | 68.4 |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI (cont)

38AH104 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 143.2 | 132.4 | 127.1 | 123.5 | 118.1 | 112.7 | 107.4 | 103.8 | 98.4 | 93.0 | 87.7 |
| | kW | 37.4 | 39.1 | 39.9 | 40.4 | 41.2 | 42.1 | 42.9 | 43.4 | 44.2 | 45.1 | 45.9 |
| | SDT | 35.7 | 41.3 | 44.1 | 45.9 | 48.7 | 51.5 | 54.3 | 56.2 | 58.9 | 61.7 | 64.5 |
| 0 | TC | 155.4 | 144.1 | 138.4 | 134.7 | 129.0 | 123.3 | 117.7 | 113.9 | 108.2 | 102.5 | 96.9 |
| | kW | 38.7 | 40.6 | 41.5 | 42.1 | 43.1 | 44.0 | 44.9 | 45.6 | 46.5 | 47.4 | 48.4 |
| | SDT | 37.0 | 42.4 | 45.2 | 47.0 | 49.7 | 52.5 | 55.2 | 57.0 | 59.7 | 62.5 | 65.2 |
| 2 | TC | 167.7 | 155.7 | 149.8 | 145.8 | 139.9 | 133.9 | 127.9 | 124.0 | 118.0 | 112.0 | 106.1 |
| | kW | 40.0 | 42.1 | 43.2 | 43.9 | 44.9 | 46.0 | 47.0 | 47.7 | 48.8 | 49.8 | 50.9 |
| | SDT | 38.2 | 43.6 | 46.3 | 48.0 | 50.7 | 53.4 | 56.1 | 57.9 | 60.5 | 63.2 | 65.9 |
| 4 | TC | 179.9 | 167.4 | 161.1 | 157.0 | 150.7 | 144.5 | 138.2 | 134.0 | 127.8 | 121.5 | 115.3 |
| | kW | 41.3 | 43.6 | 44.8 | 45.6 | 46.7 | 47.9 | 49.1 | 49.9 | 51.0 | 52.2 | 53.4 |
| | SDT | 39.5 | 44.7 | 47.4 | 49.1 | 51.7 | 54.3 | 57.0 | 58.7 | 61.3 | 64.0 | 66.6 |
| 6 | TC | 192.2 | 179.1 | 172.5 | 168.1 | 161.6 | 155.0 | 148.5 | 144.1 | 137.6 | 131.0 | 124.5 |
| | kW | 42.6 | 45.2 | 46.4 | 47.3 | 48.6 | 49.9 | 51.1 | 52.0 | 53.3 | 54.6 | 55.9 |
| | SDT | 40.7 | 45.9 | 48.4 | 50.2 | 52.7 | 55.3 | 57.9 | 59.6 | 62.1 | 64.7 | 67.3 |
| 8 | TC | 204.4 | 190.7 | 183.9 | 179.3 | 172.5 | 165.6 | 158.8 | 154.2 | 147.4 | 140.5 | 133.7 |
| | kW | 43.9 | 46.7 | 48.1 | 49.0 | 50.4 | 51.8 | 53.2 | 54.1 | 55.5 | 56.9 | 58.3 |
| | SDT | 42.0 | 47.0 | 49.5 | 51.2 | 53.7 | 56.2 | 58.7 | 60.4 | 62.9 | 65.4 | 68.0 |
| 10 | TC | 216.6 | 202.4 | 195.2 | 190.5 | 183.3 | 176.2 | 169.0 | 164.3 | 157.2 | — | — |
| | kW | 45.2 | 48.2 | 49.7 | 50.7 | 52.3 | 53.8 | 55.3 | 56.3 | 57.8 | — | — |
| | SDT | 43.3 | 48.2 | 50.6 | 52.3 | 54.7 | 57.2 | 59.6 | 61.3 | 63.7 | — | — |

38AH104 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 160.8 | 149.5 | 143.8 | 140.0 | 134.4 | 128.7 | 123.0 | 119.2 | 113.5 | 107.9 | 102.2 |
| | kW | 43.6 | 45.5 | 46.5 | 47.1 | 48.0 | 49.0 | 49.9 | 50.6 | 51.5 | 52.5 | 53.4 |
| | SDT | 38.6 | 43.6 | 46.2 | 47.9 | 50.4 | 52.9 | 55.5 | 57.2 | 59.7 | 62.2 | 64.8 |
| 0 | TC | 174.4 | 162.4 | 156.3 | 152.3 | 146.3 | 140.2 | 134.2 | 130.2 | 124.2 | 118.1 | 112.1 |
| | kW | 45.3 | 47.5 | 48.5 | 49.2 | 50.3 | 51.4 | 52.4 | 53.2 | 54.2 | 55.3 | 56.4 |
| | SDT | 39.6 | 44.6 | 47.2 | 48.9 | 51.4 | 53.9 | 56.5 | 58.2 | 60.7 | 63.2 | 65.8 |
| 2 | TC | 188.0 | 175.2 | 168.8 | 164.6 | 158.2 | 151.8 | 145.4 | 141.2 | 134.8 | 128.4 | 122.0 |
| | kW | 47.1 | 49.4 | 50.6 | 51.4 | 52.6 | 53.8 | 54.9 | 55.7 | 56.9 | 58.1 | 59.3 |
| | SDT | 40.6 | 45.6 | 48.2 | 49.9 | 52.4 | 54.9 | 57.5 | 59.1 | 61.7 | 64.2 | 66.8 |
| 4 | TC | 201.5 | 188.1 | 181.3 | 176.9 | 170.1 | 163.4 | 156.7 | 152.2 | 145.4 | 138.7 | 132.0 |
| | kW | 48.8 | 51.4 | 52.7 | 53.5 | 54.8 | 56.1 | 57.4 | 58.3 | 59.6 | 60.9 | 62.2 |
| | SDT | 41.6 | 46.6 | 49.2 | 50.9 | 53.4 | 55.9 | 58.5 | 60.1 | 62.7 | 65.2 | 67.8 |
| 6 | TC | 215.1 | 200.9 | 193.9 | 189.1 | 182.0 | 175.0 | 167.9 | 163.2 | 156.1 | 149.0 | 141.9 |
| | kW | 50.5 | 53.3 | 54.8 | 55.7 | 57.1 | 58.5 | 59.9 | 60.9 | 62.3 | 63.7 | 65.1 |
| | SDT | 42.6 | 47.6 | 50.2 | 51.9 | 54.4 | 56.9 | 59.5 | 61.1 | 63.7 | 66.2 | 68.7 |
| 8 | TC | 228.7 | 213.8 | 206.4 | 201.4 | 194.0 | 186.5 | 179.1 | 174.1 | 166.7 | 159.3 | — |
| | kW | 52.2 | 55.3 | 56.8 | 57.9 | 59.4 | 60.9 | 62.4 | 63.5 | 65.0 | 66.5 | — |
| | SDT | 43.6 | 48.6 | 51.2 | 52.9 | 55.4 | 57.9 | 60.5 | 62.1 | 64.7 | 67.2 | — |
| 10 | TC | 242.2 | 226.7 | 218.9 | 213.7 | 205.9 | 198.1 | 190.3 | 185.1 | — | — | — |
| | kW | 54.0 | 57.3 | 58.9 | 60.0 | 61.7 | 63.3 | 64.9 | 66.0 | — | — | — |
| | SDT | 44.6 | 49.6 | 52.2 | 53.9 | 56.4 | 58.9 | 61.5 | 63.1 | — | — | — |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI (cont)

38AH124 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 173.5 | 160.7 | 154.3 | 150.1 | 143.7 | 137.3 | 130.9 | 126.6 | 120.2 | 113.8 | 107.4 |
| | kW | 46.3 | 48.2 | 49.2 | 49.9 | 50.9 | 51.9 | 52.8 | 53.5 | 54.5 | 55.5 | 56.5 |
| | SDT | 35.4 | 41.3 | 44.2 | 46.1 | 49.1 | 52.0 | 55.0 | 56.9 | 59.9 | 62.8 | 65.7 |
| 0 | TC | 188.6 | 175.1 | 168.3 | 163.8 | 157.1 | 150.3 | 143.6 | 139.1 | 132.3 | 125.5 | 118.8 |
| | kW | 47.6 | 49.9 | 51.1 | 51.8 | 53.0 | 54.1 | 55.2 | 56.0 | 57.1 | 58.3 | 59.4 |
| | SDT | 36.4 | 42.2 | 45.1 | 47.0 | 49.9 | 52.8 | 55.7 | 57.6 | 60.5 | 63.3 | 66.2 |
| 2 | TC | 203.6 | 189.4 | 182.3 | 177.6 | 170.5 | 163.4 | 156.2 | 151.5 | 144.4 | 137.3 | 130.2 |
| | kW | 49.0 | 51.6 | 52.9 | 53.8 | 55.0 | 56.3 | 57.6 | 58.5 | 59.8 | 61.1 | 62.4 |
| | SDT | 37.5 | 43.1 | 46.0 | 47.9 | 50.7 | 53.5 | 56.3 | 58.2 | 61.1 | 63.9 | 66.7 |
| 4 | TC | 218.7 | 203.8 | 196.3 | 191.3 | 183.9 | 176.4 | 168.9 | 164.0 | 156.5 | 149.0 | 141.6 |
| | kW | 50.4 | 53.3 | 54.7 | 55.7 | 57.1 | 58.6 | 60.0 | 61.0 | 62.5 | 63.9 | 65.4 |
| | SDT | 38.5 | 44.1 | 46.9 | 48.7 | 51.5 | 54.3 | 57.0 | 58.9 | 61.7 | 64.4 | 67.2 |
| 6 | TC | 233.7 | 218.1 | 210.3 | 205.1 | 197.3 | 189.4 | 181.6 | 176.4 | 168.6 | 160.8 | 153.0 |
| | kW | 51.7 | 54.9 | 56.5 | 57.6 | 59.2 | 60.8 | 62.4 | 63.5 | 65.1 | 66.7 | 68.3 |
| | SDT | 39.6 | 45.0 | 47.8 | 49.6 | 52.3 | 55.0 | 57.7 | 59.5 | 62.3 | 65.0 | 67.7 |
| 8 | TC | 248.8 | 232.4 | 224.3 | 218.8 | 210.7 | 202.5 | 194.3 | 188.9 | 180.7 | 172.6 | 164.4 |
| | kW | 53.1 | 56.6 | 58.4 | 59.6 | 61.3 | 63.1 | 64.8 | 66.0 | 67.8 | 69.5 | 71.3 |
| | SDT | 40.7 | 46.0 | 48.6 | 50.4 | 53.1 | 55.8 | 58.4 | 60.2 | 62.9 | 65.5 | 68.2 |
| 10 | TC | 263.8 | 246.8 | 238.3 | 232.6 | 224.1 | 215.5 | 207.0 | 201.3 | 192.8 | 184.3 | — |
| | kW | 54.5 | 58.3 | 60.2 | 61.5 | 63.4 | 65.3 | 67.2 | 68.5 | 70.4 | 72.3 | — |
| | SDT | 41.7 | 46.9 | 49.5 | 51.3 | 53.9 | 56.5 | 59.1 | 60.8 | 63.5 | 66.1 | — |

38AH124 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 173.5 | 160.7 | 154.3 | 150.1 | 143.7 | 137.3 | 130.9 | 126.6 | 120.2 | 113.8 | 107.4 |
| | kW | 46.3 | 48.2 | 49.2 | 49.9 | 50.9 | 51.9 | 52.8 | 53.5 | 54.5 | 55.5 | 56.5 |
| | SDT | 35.4 | 41.3 | 44.2 | 46.1 | 49.1 | 52.0 | 55.0 | 56.9 | 59.9 | 62.8 | 65.7 |
| 0 | TC | 188.6 | 175.1 | 168.3 | 163.8 | 157.1 | 150.3 | 143.6 | 139.1 | 132.3 | 125.5 | 118.8 |
| | kW | 47.6 | 49.9 | 51.1 | 51.8 | 53.0 | 54.1 | 55.2 | 56.0 | 57.1 | 58.3 | 59.4 |
| | SDT | 36.4 | 42.2 | 45.1 | 47.0 | 49.9 | 52.8 | 55.7 | 57.6 | 60.5 | 63.3 | 66.2 |
| 2 | TC | 203.6 | 189.4 | 182.3 | 177.6 | 170.5 | 163.4 | 156.2 | 151.5 | 144.4 | 137.3 | 130.2 |
| | kW | 49.0 | 51.6 | 52.9 | 53.8 | 55.0 | 56.3 | 57.6 | 58.5 | 59.8 | 61.1 | 62.4 |
| | SDT | 37.5 | 43.1 | 46.0 | 47.9 | 50.7 | 53.5 | 56.3 | 58.2 | 61.1 | 63.9 | 66.7 |
| 4 | TC | 218.7 | 203.8 | 196.3 | 191.3 | 183.9 | 176.4 | 168.9 | 164.0 | 156.5 | 149.0 | 141.6 |
| | kW | 50.4 | 53.3 | 54.7 | 55.7 | 57.1 | 58.6 | 60.0 | 61.0 | 62.5 | 63.9 | 65.4 |
| | SDT | 38.5 | 44.1 | 46.9 | 48.7 | 51.5 | 54.3 | 57.0 | 58.9 | 61.7 | 64.4 | 67.2 |
| 6 | TC | 233.7 | 218.1 | 210.3 | 205.1 | 197.3 | 189.4 | 181.6 | 176.4 | 168.6 | 160.8 | 153.0 |
| | kW | 51.7 | 54.9 | 56.5 | 57.6 | 59.2 | 60.8 | 62.4 | 63.5 | 65.1 | 66.7 | 68.3 |
| | SDT | 39.6 | 45.0 | 47.8 | 49.6 | 52.3 | 55.0 | 57.7 | 59.5 | 62.3 | 65.0 | 67.7 |
| 8 | TC | 248.8 | 232.4 | 224.3 | 218.8 | 210.7 | 202.5 | 194.3 | 188.9 | 180.7 | 172.6 | 164.4 |
| | kW | 53.1 | 56.6 | 58.4 | 59.6 | 61.3 | 63.1 | 64.8 | 66.0 | 67.8 | 69.5 | 71.3 |
| | SDT | 40.7 | 46.0 | 48.6 | 50.4 | 53.1 | 55.8 | 58.4 | 60.2 | 62.9 | 65.5 | 68.2 |
| 10 | TC | 263.8 | 246.8 | 238.3 | 232.6 | 224.1 | 215.5 | 207.0 | 201.3 | 192.8 | 184.3 | — |
| | kW | 54.5 | 58.3 | 60.2 | 61.5 | 63.4 | 65.3 | 67.2 | 68.5 | 70.4 | 72.3 | — |
| | SDT | 41.7 | 46.9 | 49.5 | 51.3 | 53.9 | 56.5 | 59.1 | 60.8 | 63.5 | 66.1 | — |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 60 Hz SI (cont)

38AH134 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 173.5 | 160.7 | 154.3 | 150.1 | 143.7 | 137.3 | 130.9 | 126.6 | 120.2 | 113.8 | 107.4 |
| | kW | 46.3 | 48.2 | 49.2 | 49.9 | 50.9 | 51.9 | 52.8 | 53.5 | 54.5 | 55.5 | 56.5 |
| | SDT | 35.4 | 41.3 | 44.2 | 46.1 | 49.1 | 52.0 | 55.0 | 56.9 | 59.9 | 62.8 | 65.7 |
| 0 | TC | 188.6 | 175.1 | 168.3 | 163.8 | 157.1 | 150.3 | 143.6 | 139.1 | 132.3 | 125.5 | 118.8 |
| | kW | 47.6 | 49.9 | 51.1 | 51.8 | 53.0 | 54.1 | 55.2 | 56.0 | 57.1 | 58.3 | 59.4 |
| | SDT | 36.4 | 42.2 | 45.1 | 47.0 | 49.9 | 52.8 | 55.7 | 57.6 | 60.5 | 63.3 | 66.2 |
| 2 | TC | 203.6 | 189.4 | 182.3 | 177.6 | 170.5 | 163.4 | 156.2 | 151.5 | 144.4 | 137.3 | 130.2 |
| | kW | 49.0 | 51.6 | 52.9 | 53.8 | 55.0 | 56.3 | 57.6 | 58.5 | 59.8 | 61.1 | 62.4 |
| | SDT | 37.5 | 43.1 | 46.0 | 47.9 | 50.7 | 53.5 | 56.3 | 58.2 | 61.1 | 63.9 | 66.7 |
| 4 | TC | 218.7 | 203.8 | 196.3 | 191.3 | 183.9 | 176.4 | 168.9 | 164.0 | 156.5 | 149.0 | 141.6 |
| | kW | 50.4 | 53.3 | 54.7 | 55.7 | 57.1 | 58.6 | 60.0 | 61.0 | 62.5 | 63.9 | 65.4 |
| | SDT | 38.5 | 44.1 | 46.9 | 48.7 | 51.5 | 54.3 | 57.0 | 58.9 | 61.7 | 64.4 | 67.2 |
| 6 | TC | 233.7 | 218.1 | 210.3 | 205.1 | 197.3 | 189.4 | 181.6 | 176.4 | 168.6 | 160.8 | 153.0 |
| | kW | 51.7 | 54.9 | 56.5 | 57.6 | 59.2 | 60.8 | 62.4 | 63.5 | 65.1 | 66.7 | 68.3 |
| | SDT | 39.6 | 45.0 | 47.8 | 49.6 | 52.3 | 55.0 | 57.7 | 59.5 | 62.3 | 65.0 | 67.7 |
| 8 | TC | 248.8 | 232.4 | 224.3 | 218.8 | 210.7 | 202.5 | 194.3 | 188.9 | 180.7 | 172.6 | 164.4 |
| | kW | 53.1 | 56.6 | 58.4 | 59.6 | 61.3 | 63.1 | 64.8 | 66.0 | 67.8 | 69.5 | 71.3 |
| | SDT | 40.7 | 46.0 | 48.6 | 50.4 | 53.1 | 55.8 | 58.4 | 60.2 | 62.9 | 65.5 | 68.2 |
| 10 | TC | 263.8 | 246.8 | 238.3 | 232.6 | 224.1 | 215.5 | 207.0 | 201.3 | 192.8 | 184.3 | — |
| | kW | 54.5 | 58.3 | 60.2 | 61.5 | 63.4 | 65.3 | 67.2 | 68.5 | 70.4 | 72.3 | — |
| | SDT | 41.7 | 46.9 | 49.5 | 51.3 | 53.9 | 56.5 | 59.1 | 60.8 | 63.5 | 66.1 | — |

38AH134 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 210.6 | 196.8 | 189.9 | 185.3 | 178.4 | 171.5 | 164.6 | 160.0 | 153.1 | 146.2 | 139.3 |
| | kW | 57.9 | 60.3 | 61.5 | 62.3 | 63.6 | 64.8 | 66.0 | 66.8 | 68.0 | 69.2 | 70.4 |
| | SDT | 35.3 | 41.0 | 43.8 | 45.7 | 48.5 | 51.4 | 54.2 | 56.1 | 58.9 | 61.8 | 64.6 |
| 0 | TC | 228.4 | 213.7 | 206.3 | 201.5 | 194.1 | 186.8 | 179.4 | 174.5 | 167.2 | 159.8 | 152.5 |
| | kW | 59.9 | 62.6 | 64.0 | 64.9 | 66.3 | 67.6 | 69.0 | 69.9 | 71.3 | 72.6 | 74.0 |
| | SDT | 36.1 | 41.8 | 44.6 | 46.5 | 49.3 | 52.2 | 55.0 | 56.9 | 59.7 | 62.6 | 65.4 |
| 2 | TC | 246.2 | 230.6 | 222.8 | 217.6 | 209.8 | 202.0 | 194.3 | 189.1 | 181.3 | 173.5 | 165.7 |
| | kW | 61.8 | 64.9 | 66.4 | 67.4 | 69.0 | 70.5 | 72.0 | 73.0 | 74.6 | 76.1 | 77.6 |
| | SDT | 36.9 | 42.6 | 45.4 | 47.3 | 50.1 | 53.0 | 55.8 | 57.7 | 60.5 | 63.4 | 66.2 |
| 4 | TC | 263.9 | 247.5 | 239.3 | 233.8 | 225.6 | 217.3 | 209.1 | 203.6 | 195.4 | 187.2 | 178.9 |
| | kW | 63.7 | 67.1 | 68.8 | 70.0 | 71.7 | 73.3 | 75.0 | 76.2 | 77.9 | 79.6 | 81.3 |
| | SDT | 37.7 | 43.4 | 46.2 | 48.1 | 50.9 | 53.8 | 56.6 | 58.5 | 61.3 | 64.2 | 67.0 |
| 6 | TC | 281.7 | 264.4 | 255.7 | 249.9 | 241.3 | 232.6 | 223.9 | 218.2 | 209.5 | 200.8 | 192.2 |
| | kW | 65.7 | 69.4 | 71.2 | 72.5 | 74.4 | 76.2 | 78.1 | 79.3 | 81.2 | 83.0 | 84.9 |
| | SDT | 38.5 | 44.2 | 47.0 | 48.9 | 51.7 | 54.6 | 57.4 | 59.3 | 62.1 | 65.0 | 67.8 |
| 8 | TC | 299.5 | 281.3 | 272.2 | 266.1 | 257.0 | 247.9 | 238.8 | 232.7 | 223.6 | 214.5 | 205.4 |
| | kW | 67.6 | 71.6 | 73.7 | 75.0 | 77.1 | 79.1 | 81.1 | 82.5 | 84.5 | 86.5 | 88.5 |
| | SDT | 39.3 | 45.0 | 47.8 | 49.7 | 52.5 | 55.4 | 58.2 | 60.1 | 62.9 | 65.8 | 68.6 |
| 10 | TC | 317.3 | 298.2 | 288.6 | 282.3 | 272.7 | 263.2 | 253.6 | 247.3 | 237.7 | 228.2 | 218.6 |
| | kW | 69.5 | 73.9 | 76.1 | 77.6 | 79.8 | 81.9 | 84.1 | 85.6 | 87.8 | 90.0 | 92.2 |
| | SDT | 40.1 | 45.8 | 48.6 | 50.5 | 53.3 | 56.2 | 59.0 | 60.9 | 63.7 | 66.6 | 69.4 |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT RATINGS, 50 Hz English

38AH044

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 293.0 | 268.0 | 255.0 | 242.0 | 230.0 | 216.0 | 202.0 | 189.3 | 175.9 | 162.6 | 149.1 |
| | kW | 22.9 | 24.4 | 25.1 | 25.8 | 26.2 | 26.6 | 26.9 | 27.0 | 27.1 | 27.0 | 26.7 |
| | SDT | 91.0 | 102.0 | 106.0 | 111.0 | 116.0 | 121.0 | 125.5 | 131.0 | 135.5 | 140.5 | 145.5 |
| 25 | TC | 332.0 | 305.0 | 292.0 | 279.0 | 265.0 | 251.0 | 238.0 | 224.0 | 210.0 | 195.1 | 180.8 |
| | kW | 23.7 | 25.5 | 26.3 | 27.1 | 27.8 | 28.4 | 28.8 | 29.1 | 29.4 | 29.6 | 29.5 |
| | SDT | 91.6 | 101.5 | 106.5 | 111.5 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| 30 | TC | 373.0 | 345.0 | 331.0 | 317.0 | 303.0 | 289.0 | 274.0 | 259.0 | 244.0 | 230.0 | 214.0 |
| | kW | 24.4 | 26.5 | 27.5 | 28.4 | 29.2 | 30.0 | 30.6 | 31.1 | 31.6 | 31.9 | 32.1 |
| | SDT | 92.4 | 102.0 | 107.0 | 112.0 | 116.5 | 121.5 | 126.5 | 131.5 | 136.5 | 141.0 | 146.0 |
| 35 | TC | 416.0 | 387.0 | 372.0 | 357.0 | 342.0 | 328.0 | 312.0 | 297.0 | 281.0 | 265.0 | 250.0 |
| | kW | 25.1 | 27.5 | 28.6 | 29.6 | 30.6 | 31.4 | 32.3 | 33.0 | 33.6 | 34.1 | 34.5 |
| | SDT | 93.6 | 103.5 | 108.0 | 113.0 | 118.0 | 122.5 | 127.0 | 132.5 | 136.5 | 141.5 | 146.5 |
| 40 | TC | 462.0 | 431.0 | 415.0 | 400.0 | 384.0 | 368.0 | 351.0 | 336.0 | 320.0 | 303.0 | 287.0 |
| | kW | 25.8 | 28.4 | 29.7 | 30.9 | 31.9 | 33.0 | 34.0 | 34.8 | 35.6 | 36.3 | 36.9 |
| | SDT | 94.9 | 104.5 | 109.5 | 113.5 | 118.5 | 123.5 | 128.0 | 133.0 | 138.0 | 142.5 | 147.5 |
| 45 | TC | 509.0 | 477.0 | 460.0 | 444.0 | 427.0 | 411.0 | 394.0 | 376.0 | 359.0 | 343.0 | 325.0 |
| | kW | 26.4 | 29.3 | 30.6 | 32.0 | 33.2 | 34.4 | 35.5 | 36.5 | 37.5 | 38.4 | 39.2 |
| | SDT | 96.4 | 106.0 | 111.0 | 115.0 | 120.0 | 124.5 | 129.5 | 134.5 | 139.0 | 144.0 | 148.5 |
| 50 | TC | 560.0 | 525.0 | 508.0 | 491.0 | 473.0 | 455.0 | 438.0 | 419.0 | 401.0 | 384.0 | 366.0 |
| | kW | 27.0 | 30.2 | 31.7 | 33.1 | 34.5 | 35.8 | 37.1 | 38.2 | 39.3 | 40.4 | 41.3 |
| | SDT | 98.0 | 107.5 | 112.5 | 117.0 | 121.5 | 126.0 | 131.0 | 135.5 | 140.5 | 145.5 | 149.5 |

38AH054

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 341.0 | 313.0 | 299.0 | 286.0 | 272.0 | 259.0 | 245.0 | 231.2 | 217.6 | 204.9 | 191.2* |
| | kW | 27.8 | 29.5 | 30.2 | 30.9 | 31.5 | 32.0 | 32.4 | 32.6 | 32.9 | 33.0 | 33.0* |
| | SDT | 95.5 | 105.5 | 110.5 | 115.5 | 120.5 | 125.5 | 130.5 | 135.5 | 140.5 | 145.5 | 150.5* |
| 25 | TC | 387.0 | 357.0 | 342.0 | 327.0 | 312.0 | 297.0 | 282.0 | 268.0 | 253.0 | 239.2 | 225.1* |
| | kW | 28.9 | 30.9 | 31.8 | 32.6 | 33.4 | 34.1 | 34.7 | 35.1 | 35.6 | 35.9 | 36.0* |
| | SDT | 96.0 | 105.5 | 110.5 | 115.5 | 120.5 | 125.5 | 130.5 | 135.5 | 140.5 | 145.5 | 150.5* |
| 30 | TC | 435.0 | 403.0 | 386.0 | 371.0 | 355.0 | 340.0 | 323.0 | 308.0 | 292.0 | 277.0 | 261.0* |
| | kW | 29.9 | 32.3 | 33.3 | 34.3 | 35.3 | 36.1 | 36.8 | 37.4 | 38.0 | 38.5 | 38.9* |
| | SDT | 96.7 | 106.5 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 145.5 | 150.5* |
| 35 | TC | 485.0 | 451.0 | 434.0 | 417.0 | 401.0 | 384.0 | 367.0 | 350.0 | 333.0 | 316.0 | 300.0* |
| | kW | 30.9 | 33.5 | 34.8 | 35.9 | 37.0 | 38.0 | 38.9 | 39.7 | 40.5 | 41.1 | 41.7* |
| | SDT | 97.7 | 107.0 | 112.0 | 117.0 | 121.5 | 126.5 | 131.5 | 136.5 | 141.0 | 146.0 | 151.0* |
| 40 | TC | 538.0 | 503.0 | 485.0 | 467.0 | 449.0 | 431.0 | 412.0 | 395.0 | 377.0 | 359.0 | 341.0* |
| | kW | 31.9 | 34.8 | 36.1 | 37.5 | 38.7 | 39.9 | 41.0 | 41.9 | 42.9 | 43.7 | 44.5* |
| | SDT | 99.2 | 108.5 | 113.0 | 118.0 | 123.0 | 128.0 | 132.5 | 137.0 | 142.0 | 146.5 | 151.5* |
| 45 | TC | 593.0 | 555.0 | 537.0 | 518.0 | 499.0 | 480.0 | 461.0 | 442.0 | 423.0 | 403.0 | 385.0* |
| | kW | 32.9 | 36.1 | 37.6 | 39.1 | 40.4 | 41.8 | 43.0 | 44.1 | 45.2 | 46.3 | 47.1* |
| | SDT | 100.9 | 110.0 | 114.5 | 119.5 | 124.0 | 128.5 | 133.5 | 138.5 | 143.0 | 148.0 | 153.0* |
| 50 | TC | 652.0 | 611.0 | 592.0 | 571.0 | 551.0 | 532.0 | 511.0 | 491.0 | 471.0 | 450.0* | 431.0* |
| | kW | 34.0 | 37.4 | 39.1 | 40.6 | 42.2 | 43.7 | 45.0 | 46.3 | 47.5 | 48.8* | 49.8* |
| | SDT | 102.7 | 112.0 | 116.5 | 121.0 | 126.0 | 130.0 | 135.0 | 139.5 | 144.5 | 149.0* | 153.5* |

38AH064

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 415.0 | 383.0 | 368.0 | 352.0 | 337.0 | 321.0 | 306.0 | 290.0 | 275.0 | 261.0 | 246.0 |
| | kW | 33.6 | 35.7 | 36.7 | 37.5 | 38.3 | 39.0 | 39.6 | 40.1 | 40.5 | 40.8 | 41.0 |
| | SDT | 93.4 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 25 | TC | 468.0 | 434.0 | 417.0 | 401.0 | 384.0 | 367.0 | 350.0 | 335.0 | 318.0 | 302.0 | 285.0 |
| | kW | 34.9 | 37.4 | 38.6 | 39.6 | 40.6 | 41.4 | 42.2 | 42.8 | 43.4 | 43.9 | 44.3 |
| | SDT | 94.0 | 104.0 | 109.0 | 113.5 | 118.5 | 123.5 | 128.5 | 133.5 | 138.0 | 143.0 | 148.0 |
| 30 | TC | 523.0 | 487.0 | 469.0 | 451.0 | 434.0 | 416.0 | 399.0 | 380.0 | 363.0 | 346.0 | 328.0 |
| | kW | 36.2 | 39.0 | 40.3 | 41.5 | 42.7 | 43.7 | 44.7 | 45.5 | 46.3 | 47.0 | 47.5 |
| | SDT | 95.0 | 104.5 | 109.5 | 114.5 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| 35 | TC | 582.0 | 544.0 | 525.0 | 505.0 | 487.0 | 467.0 | 448.0 | 429.0 | 410.0 | 393.0 | 374.0 |
| | kW | 37.4 | 40.6 | 42.1 | 43.5 | 44.8 | 46.0 | 47.2 | 48.2 | 49.2 | 50.0 | 50.7 |
| | SDT | 96.3 | 105.5 | 110.5 | 115.5 | 120.5 | 125.0 | 130.0 | 134.5 | 139.5 | 144.5 | 149.5 |
| 40 | TC | 644.0 | 603.0 | 582.0 | 562.0 | 542.0 | 521.0 | 501.0 | 481.0 | 461.0 | 442.0 | 421.0* |
| | kW | 38.7 | 42.2 | 43.9 | 45.5 | 47.0 | 48.3 | 49.6 | 50.8 | 52.0 | 53.0 | 54.0* |
| | SDT | 98.0 | 107.5 | 112.5 | 116.5 | 121.5 | 126.5 | 131.5 | 136.0 | 140.5 | 145.5 | 150.5* |
| 45 | TC | 708.0 | 664.0 | 642.0 | 620.0 | 600.0 | 578.0 | 556.0 | 535.0 | 514.0 | 493.0 | 471.0* |
| | kW | 40.0 | 43.9 | 45.7 | 47.4 | 49.1 | 50.7 | 52.2 | 53.5 | 54.9 | 56.1 | 57.1* |
| | SDT | 100.0 | 109.0 | 114.0 | 118.5 | 123.5 | 128.0 | 132.5 | 137.5 | 142.5 | 146.6 | 151.5* |
| 50 | TC | 776.0 | 729.0 | 706.0 | 682.0 | 660.0 | 636.0 | 614.0 | 591.0 | 569.0 | 546.0 | 523.0* |
| | kW | 41.2 | 45.5 | 47.5 | 49.4 | 51.3 | 53.0 | 54.7 | 56.2 | 57.7 | 59.1 | 60.3* |
| | SDT | 102.0 | 111.0 | 116.0 | 120.5 | 125.0 | 130.0 | 134.5 | 139.5 | 143.5 | 148.5 | 153.5* |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (F)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT RATINGS, 50 Hz English (cont)

| 38AH074 | | | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 513.0 | 478.0 | 461.0 | 444.0 | 427.0 | 410.0 | 393.0 | 376.0 | 360.0 | 342.0 | 326.0 |
| | kW | 42.4 | 44.9 | 46.0 | 47.1 | 48.1 | 48.9 | 49.6 | 50.2 | 50.8 | 51.2 | 51.6 |
| | SDT | 92.1 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 126.5 | 131.5 | 136.5 | 142.0 | 147.0 |
| 25 | TC | 574.0 | 538.0 | 520.0 | 501.0 | 482.0 | 465.0 | 446.0 | 428.0 | 410.0 | 392.0 | 373.0 |
| | kW | 44.1 | 47.0 | 48.3 | 49.6 | 50.7 | 51.7 | 52.7 | 53.5 | 54.3 | 54.9 | 55.4 |
| | SDT | 92.7 | 102.5 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 30 | TC | 638.0 | 600.0 | 580.0 | 561.0 | 541.0 | 522.0 | 503.0 | 483.0 | 463.0 | 444.0 | 425.0 |
| | kW | 45.8 | 49.1 | 50.6 | 52.1 | 53.4 | 54.6 | 55.8 | 56.8 | 57.8 | 58.6 | 59.3 |
| | SDT | 93.9 | 103.5 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 132.5 | 137.0 | 142.0 | 147.0 |
| 35 | TC | 706.0 | 664.0 | 643.0 | 623.0 | 603.0 | 581.0 | 561.0 | 540.0 | 520.0 | 499.0 | 479.0 |
| | kW | 47.7 | 51.3 | 53.0 | 54.6 | 56.1 | 57.6 | 58.8 | 60.1 | 61.3 | 62.3 | 63.2 |
| | SDT | 95.5 | 104.5 | 109.5 | 114.5 | 119.0 | 123.5 | 128.5 | 133.5 | 138.0 | 143.0 | 148.0 |
| 40 | TC | 776.0 | 731.0 | 710.0 | 688.0 | 666.0 | 644.0 | 622.0 | 600.0 | 578.0 | 557.0 | 534.0 |
| | kW | 49.5 | 53.6 | 55.4 | 57.2 | 58.9 | 60.5 | 62.0 | 63.4 | 64.8 | 66.0 | 67.1 |
| | SDT | 97.3 | 106.5 | 111.5 | 116.0 | 120.5 | 125.5 | 130.0 | 134.5 | 139.5 | 144.0 | 148.5 |
| 45 | TC | 850.0 | 803.0 | 780.0 | 756.0 | 733.0 | 709.0 | 686.0 | 662.0 | 640.0 | 616.0 | 593.0* |
| | kW | 51.2 | 55.8 | 57.8 | 59.8 | 61.8 | 63.5 | 65.3 | 66.8 | 68.4 | 69.8 | 71.1* |
| | SDT | 99.3 | 108.5 | 113.0 | 118.0 | 122.5 | 127.0 | 131.5 | 136.5 | 141.0 | 145.5 | 150.0* |
| 50 | TC | 930.0 | 879.0 | 853.0 | 828.0 | 803.0 | 778.0 | 753.0 | 727.0 | 703.0 | 678.0 | 653.0* |
| | kW | 53.0 | 57.9 | 60.3 | 62.5 | 64.6 | 66.6 | 68.6 | 70.3 | 72.1 | 73.7 | 75.1* |
| | SDT | 101.5 | 110.5 | 115.0 | 120.0 | 124.5 | 129.0 | 133.5 | 138.0 | 143.0 | 147.0 | 152.0* |

| 38AH084 | | | | | | | | | | | | |
|------------|-----|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 574.0 | 536.0 | 518.0 | 500.0 | 482.0 | 464.0 | 446.0 | 429.0 | 412.0 | 395.0 | 378.0* |
| | kW | 50.7 | 53.3 | 54.5 | 55.6 | 56.6 | 57.6 | 58.4 | 59.2 | 59.9 | 60.6 | 61.1* |
| | SDT | 97.1 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 | 152.0* |
| 25 | TC | 644.0 | 604.0 | 584.0 | 564.0 | 544.0 | 524.0 | 505.0 | 486.0 | 467.0 | 448.0 | 430.0* |
| | kW | 52.9 | 55.9 | 57.3 | 58.7 | 59.9 | 61.0 | 62.1 | 63.0 | 64.0 | 64.8 | 65.5* |
| | SDT | 97.2 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 | 152.0* |
| 30 | TC | 721.0 | 676.0 | 654.0 | 632.0 | 611.0 | 590.0 | 568.0 | 548.0 | 526.0 | 506.0 | 486.0* |
| | kW | 54.9 | 58.5 | 60.1 | 61.7 | 63.1 | 64.5 | 65.7 | 66.8 | 68.0 | 69.0 | 69.9* |
| | SDT | 97.4 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 | 152.0* |
| 35 | TC | 802.0 | 754.0 | 730.0 | 706.0 | 683.0 | 660.0 | 636.0 | 614.0 | 590.0 | 568.0 | 546.0* |
| | kW | 56.9 | 60.9 | 62.9 | 64.7 | 66.3 | 67.9 | 69.3 | 70.7 | 72.0 | 73.2 | 74.4* |
| | SDT | 98.1 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 147.0 | 152.0* |
| 40 | TC | 887.0 | 835.0 | 809.0 | 785.0 | 759.0 | 734.0 | 709.0 | 684.0 | 659.0 | 634.0 | 610.0* |
| | kW | 58.9 | 63.5 | 65.5 | 67.5 | 69.5 | 71.3 | 72.9 | 74.5 | 76.1 | 77.5 | 78.8* |
| | SDT | 99.2 | 109.0 | 113.5 | 118.5 | 123.5 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 | 153.0* |
| 45 | TC | 976.0 | 920.0 | 893.0 | 866.0 | 839.0 | 811.0 | 785.0 | 758.0 | 731.0 | 705.0 | 679.0* |
| | kW | 61.1 | 66.1 | 68.3 | 70.6 | 72.7 | 74.7 | 76.7 | 78.5 | 80.2 | 81.8 | 83.3* |
| | SDT | 100.5 | 110.5 | 115.0 | 119.5 | 124.5 | 129.5 | 134.0 | 139.0 | 144.0 | 149.0 | 154.0* |
| 50 | TC | 1067.0 | 1009.0 | 980.0 | 950.0 | 922.0 | 892.0 | 864.0 | 836.0 | 807.0 | 779.0 | 750.0* |
| | kW | 63.3 | 68.7 | 71.3 | 73.7 | 76.1 | 78.3 | 80.5 | 82.4 | 84.4 | 86.2 | 87.9* |
| | SDT | 102.5 | 112.0 | 116.5 | 121.5 | 126.0 | 130.5 | 135.5 | 140.5 | 145.0 | 150.0 | 154.5* |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (F)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT RATINGS, 50 Hz English (cont)

38AH094

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|--------|--|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 657.0 | 611.0 | 588.0 | 564.0 | 540.0 | 517.0 | 494.0 | 470.0 | 446.0 | 423.0 | 400.0 |
| | kW | 54.3 | 57.4 | 59.0 | 60.2 | 61.4 | 62.4 | 63.2 | 63.9 | 64.4 | 64.7 | 64.8 |
| | SDT(A) | 93.9 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SDT(B) | 92.1 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT(A) | 91.7 | 102.0 | 107.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(B) | 90.4 | 101.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 142.0 | 147.0 |
| 25 | TC | 738.0 | 689.0 | 663.0 | 638.0 | 614.0 | 589.0 | 564.0 | 538.0 | 514.0 | 488.0 | 463.0 |
| | kW | 56.5 | 60.2 | 62.0 | 63.5 | 64.9 | 66.2 | 67.3 | 68.3 | 69.1 | 69.8 | 70.2 |
| | SDT(A) | 95.0 | 105.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SDT(B) | 92.4 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT(A) | 92.1 | 102.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(B) | 90.2 | 100.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| 30 | TC | 821.0 | 769.0 | 743.0 | 716.0 | 691.0 | 664.0 | 638.0 | 611.0 | 585.0 | 557.0 | 531.0 |
| | kW | 58.8 | 62.9 | 65.0 | 66.8 | 68.5 | 70.0 | 71.5 | 72.7 | 73.8 | 74.7 | 75.5 |
| | SDT(A) | 96.7 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SDT(B) | 93.3 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT(A) | 93.0 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(B) | 90.5 | 101.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| 35 | TC | 907.0 | 853.0 | 825.0 | 798.0 | 771.0 | 742.0 | 714.0 | 686.0 | 658.0 | 630.0 | 602.0 |
| | kW | 61.3 | 65.8 | 68.1 | 70.2 | 72.0 | 73.8 | 75.5 | 77.0 | 78.4 | 79.6 | 80.7 |
| | SDT(A) | 98.7 | 108.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 | 150.0 |
| | SDT(B) | 94.7 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(A) | 94.3 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT(B) | 91.2 | 101.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 40 | TC | 999.0 | 940.0 | 911.0 | 882.0 | 853.0 | 824.0 | 793.0 | 764.0 | 734.0 | 704.0 | 675.0 |
| | kW | 63.8 | 68.8 | 71.3 | 73.6 | 75.8 | 77.8 | 79.7 | 81.4 | 83.1 | 84.5 | 85.9 |
| | SDT(A) | 101.0 | 110.0 | 115.0 | 119.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 146.0 | 151.0 |
| | SDT(B) | 96.5 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT(A) | 95.7 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| | SCT(B) | 92.3 | 102.0 | 108.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 45 | TC | 1093.0 | 1031.0 | 1001.0 | 970.0 | 939.0 | 908.0 | 877.0 | 845.0 | 814.0 | 782.0 | 751.0 |
| | kW | 66.3 | 71.8 | 74.6 | 77.1 | 79.5 | 81.8 | 83.9 | 86.0 | 87.9 | 89.6 | 91.2 |
| | SDT(A) | 104.0 | 112.0 | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 | 144.0 | 148.0 | 153.0 |
| | SDT(B) | 98.6 | 108.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 | 150.0 |
| | SCT(A) | 97.4 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 146.0 | 151.0 |
| | SCT(B) | 93.6 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 138.0 | 143.0 | 148.0 |
| 50 | TC | 1193.0 | 1127.0 | 1095.0 | 1062.0 | 1029.0 | 996.0 | 963.0 | 929.0 | 896.0 | 862.0 | 829.0 |
| | kW | 68.9 | 74.8 | 77.8 | 80.7 | 83.3 | 85.8 | 88.3 | 90.5 | 92.7 | 94.7 | 96.6 |
| | SDT(A) | 106.0 | 115.0 | 119.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 146.0 | 150.0 | 155.0* |
| | SDT(B) | 101.0 | 110.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 147.0 | 151.0 |
| | SCT(A) | 99.1 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 143.0 | 148.0 | 153.0 |
| | SCT(B) | 95.1 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 149.0 |

LEGEND

- kW** — Compressor Power
- SCT(A)** — Saturated Condensing Temperature (F) for Circuit A (38AH094, 104), or Module 38AH124A or 134A
- SCT(B)** — Saturated Condensing Temperature (F) for Circuit B (38AH094, 104), or Module 38AH124B or 134B
- SDT(A)** — Saturated Discharge Temperature (F) for Circuit A (38AH094, 104), or Module 38AH124A or 134A
- SDT(B)** — Saturated Discharge Temperature (F) for Circuit B (38AH094, 104), or Module 38AH124B or 134B
- SST** — Saturated Suction Temperature Entering Condensing Unit
- TC** — Gross Cooling Capacity (1000 Btuh)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT RATINGS, 50 Hz English (cont)

| 38AH104 | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|---------|--------|--|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| SST (F) | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 747.0 | 689.0 | 661.0 | 633.0 | 604.0 | 577.0 | 549.0 | 523.0 | 495.0 | 469.0 | 443.0 |
| | kW | 58.4 | 62.2 | 63.9 | 65.6 | 67.0 | 68.3 | 69.5 | 70.5 | 71.3 | 71.9 | 72.4 |
| | SDT(A) | 91.9 | 102.0 | 107.0 | 112.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| | SDT(B) | 93.5 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 142.0 | 147.0 |
| | SCT(A) | 89.8 | 100.0 | 105.0 | 110.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| SCT(B) | 90.9 | 101.0 | 106.0 | 111.0 | 116.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 | |
| 25 | TC | 837.0 | 777.0 | 747.0 | 718.0 | 687.0 | 658.0 | 628.0 | 599.0 | 571.0 | 541.0 | 513.0 |
| | kW | 61.0 | 65.2 | 67.3 | 69.2 | 70.9 | 72.6 | 74.0 | 75.2 | 76.4 | 77.4 | 78.1 |
| | SDT(A) | 93.0 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 141.0 | 146.0 |
| | SDT(B) | 95.1 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(A) | 90.2 | 100.0 | 105.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| SCT(B) | 91.7 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 | |
| 30 | TC | 932.0 | 869.0 | 837.0 | 805.0 | 773.0 | 742.0 | 711.0 | 680.0 | 649.0 | 619.0 | 588.0 |
| | kW | 63.8 | 68.5 | 70.8 | 72.9 | 74.9 | 76.8 | 78.5 | 80.0 | 81.4 | 82.7 | 83.8 |
| | SDT(A) | 94.7 | 104.0 | 109.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SDT(B) | 97.1 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 129.0 | 134.0 | 139.0 | 144.0 | 148.0 |
| | SCT(A) | 91.2 | 101.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| SCT(B) | 92.9 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 | |
| 35 | TC | 1032.0 | 964.0 | 930.0 | 896.0 | 863.0 | 829.0 | 796.0 | 763.0 | 731.0 | 698.0 | 665.0 |
| | kW | 66.7 | 71.8 | 74.4 | 76.8 | 78.9 | 81.0 | 83.1 | 84.9 | 86.6 | 88.1 | 89.5 |
| | SDT(A) | 96.7 | 106.0 | 110.0 | 115.0 | 119.0 | 124.0 | 129.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SDT(B) | 99.4 | 108.0 | 113.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 | 150.0 |
| | SCT(A) | 92.5 | 103.0 | 108.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| SCT(B) | 94.4 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 148.0 | |
| 40 | TC | 1137.0 | 1065.0 | 1029.0 | 993.0 | 957.0 | 921.0 | 886.0 | 851.0 | 816.0 | 781.0 | 747.0 |
| | kW | 69.5 | 75.2 | 78.1 | 80.7 | 83.2 | 85.5 | 87.8 | 89.9 | 91.8 | 93.6 | 95.3 |
| | SDT(A) | 98.9 | 108.0 | 112.0 | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 |
| | SDT(B) | 102.0 | 111.0 | 115.0 | 120.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 147.0 | 151.0 |
| | SCT(A) | 94.0 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| SCT(B) | 96.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 | 150.0 | |
| 45 | TC | 1247.0 | 1170.0 | 1132.0 | 1094.0 | 1054.0 | 1017.0 | 980.0 | 942.0 | 905.0 | 868.0 | 831.0 |
| | kW | 72.4 | 78.7 | 81.8 | 84.7 | 87.4 | 90.1 | 92.5 | 94.9 | 97.1 | 99.2 | 101.2 |
| | SDT(A) | 101.0 | 110.0 | 115.0 | 119.0 | 124.0 | 128.0 | 132.0 | 137.0 | 141.0 | 146.0 | 150.0 |
| | SDT(B) | 105.0 | 113.0 | 118.0 | 122.0 | 126.0 | 131.0 | 135.0 | 140.0 | 144.0 | 149.0 | 153.0 |
| | SCT(A) | 95.6 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 |
| SCT(B) | 97.8 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 132.0 | 137.0 | 142.0 | 147.0 | 151.0 | |
| 50 | TC | 1363.0 | 1281.0 | 1240.0 | 1199.0 | 1158.0 | 1117.0 | 1077.0 | 1037.0 | 998.0 | 958.0 | 919.0 |
| | kW | 75.5 | 82.2 | 85.6 | 88.8 | 91.7 | 94.7 | 97.4 | 100.1 | 102.6 | 104.9 | 107.1 |
| | SDT(A) | 104.0 | 113.0 | 117.0 | 122.0 | 126.0 | 130.0 | 135.0 | 139.0 | 144.0 | 148.0 | 152.0 |
| | SDT(B) | 108.0 | 116.0 | 120.0 | 125.0 | 129.0 | 133.0 | 138.0 | 142.0 | 146.0 | 151.0 | 155.0* |
| | SCT(A) | 97.3 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 141.0 | 146.0 | 151.0 |
| SCT(B) | 99.6 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 148.0 | 153.0 | |

LEGEND

- kW** — Compressor Power
- SCT(A)** — Saturated Condensing Temperature (F) for Circuit A (38AH094, 104), or Module 38AH124A or 134A
- SCT(B)** — Saturated Condensing Temperature (F) for Circuit B (38AH094, 104), or Module 38AH124B or 134B
- SDT(A)** — Saturated Discharge Temperature (F) for Circuit A (38AH094, 104), or Module 38AH124A or 134A
- SDT(B)** — Saturated Discharge Temperature (F) for Circuit B (38AH094, 104), or Module 38AH124B or 134B
- SST** — Saturated Suction Temperature Entering Condensing Unit
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT RATINGS, 50 Hz English (cont)

38AH124

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|---------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 834.0 | 772.0 | 740.0 | 710.0 | 678.0 | 648.0 | 618.0 | 588.0 | 558.0 | 528.0 | 498.0 |
| | kW | 67.2 | 71.4 | 73.4 | 75.2 | 76.8 | 78.0 | 79.2 | 80.2 | 81.0 | 81.6 | 82.0 |
| | SDT(A) OR (B) | 93.3 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(A) OR (B) | 92.4 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 25 | TC | 940.0 | 872.0 | 840.0 | 806.0 | 772.0 | 740.0 | 708.0 | 674.0 | 642.0 | 610.0 | 578.0 |
| | kW | 69.8 | 74.6 | 77.0 | 79.2 | 81.0 | 82.8 | 84.4 | 85.6 | 86.8 | 87.8 | 88.6 |
| | SDT(A) OR (B) | 94.0 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(A) OR (B) | 92.8 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 30 | TC | 1050.0 | 980.0 | 944.0 | 908.0 | 872.0 | 838.0 | 802.0 | 768.0 | 732.0 | 698.0 | 662.0 |
| | kW | 72.4 | 78.0 | 80.6 | 83.2 | 85.4 | 87.4 | 89.4 | 91.0 | 92.6 | 94.0 | 95.0 |
| | SDT(A) OR (B) | 95.0 | 105.0 | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT(A) OR (B) | 93.5 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 35 | TC | 1168.0 | 1092.0 | 1052.0 | 1014.0 | 978.0 | 940.0 | 902.0 | 864.0 | 828.0 | 790.0 | 752.0 |
| | kW | 75.0 | 81.2 | 84.2 | 87.0 | 89.6 | 92.0 | 94.4 | 96.4 | 98.4 | 100.0 | 101.4 |
| | SDT(A) OR (B) | 96.4 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 |
| | SCT(A) OR (B) | 94.6 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| 40 | TC | 1290.0 | 1208.0 | 1168.0 | 1126.0 | 1086.0 | 1046.0 | 1006.0 | 966.0 | 926.0 | 888.0 | 848.0 |
| | kW | 77.6 | 84.4 | 87.8 | 91.0 | 94.0 | 96.8 | 99.4 | 101.6 | 104.0 | 106.0 | 108.0 |
| | SDT(A) OR (B) | 98.1 | 108.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 150.0 |
| | SCT(A) OR (B) | 95.9 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| 45 | TC | 1418.0 | 1332.0 | 1288.0 | 1244.0 | 1202.0 | 1158.0 | 1116.0 | 1074.0 | 1032.0 | 988.0 | 946.0 |
| | kW | 80.0 | 87.8 | 91.6 | 95.0 | 98.2 | 101.4 | 104.4 | 107.0 | 109.8 | 112.2 | 114.4 |
| | SDT(A) OR (B) | 100.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 142.0 | 147.0 | 152.0 |
| | SCT(A) OR (B) | 97.5 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0 |
| 50 | TC | 1552.0 | 1460.0 | 1414.0 | 1368.0 | 1322.0 | 1276.0 | 1232.0 | 1186.0 | 1140.0 | 1096.0 | 1050.0 |
| | kW | 82.6 | 91.0 | 95.2 | 99.0 | 102.6 | 106.2 | 109.4 | 112.4 | 115.6 | 118.2 | 120.8 |
| | SDT(A) OR (B) | 102.0 | 112.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 | 149.0 | 153.0 |
| | SCT(A) OR (B) | 99.3 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 147.0 | 152.0 |

LEGEND

- kW** — Compressor Power
- SCT(A)** — Saturated Condensing Temperature (F) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SCT(B)** — Saturated Condensing Temperature (F) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SDT(A)** — Saturated Discharge Temperature (F) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SDT(B)** — Saturated Discharge Temperature (F) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SST** — Saturated Suction Temperature Entering Condensing Unit
- TC** — Gross Cooling Capacity (1000 Btuh)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT RATINGS, 50 Hz English (cont)

| 38AH134 | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|---------|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SST (F) | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 930.0 | 864.0 | 831.0 | 799.0 | 766.0 | 734.0 | 702.0 | 670.0 | 638.0 | 606.0 | 575.0 |
| | kW | 76.0 | 80.6 | 82.8 | 84.7 | 86.4 | 87.9 | 89.2 | 90.3 | 91.3 | 92.1 | 92.6 |
| | SDT(A) | 93.3 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SDT(B) | 92.0 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT(A) | 92.4 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(B) | 87.6 | 97.7 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 |
| 25 | TC | 1045.0 | 974.0 | 940.0 | 905.0 | 869.0 | 835.0 | 801.0 | 765.0 | 731.0 | 697.0 | 663.0 |
| | kW | 79.0 | 84.3 | 86.8 | 89.1 | 91.2 | 93.1 | 94.9 | 96.3 | 97.7 | 98.8 | 99.8 |
| | SDT(A) | 94.0 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SDT(B) | 92.7 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT(A) | 92.8 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(B) | 88.6 | 98.5 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 |
| 30 | TC | 1164.0 | 1090.0 | 1052.0 | 1015.0 | 978.0 | 941.0 | 904.0 | 868.0 | 830.0 | 794.0 | 756.0 |
| | kW | 82.0 | 88.1 | 90.9 | 93.6 | 96.1 | 98.3 | 100.4 | 102.2 | 104.0 | 105.6 | 106.8 |
| | SDT(A) | 95.0 | 105.0 | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SDT(B) | 93.8 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT(A) | 93.5 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(B) | 90.0 | 99.7 | 105.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 |
| 35 | TC | 1290.0 | 1211.0 | 1170.0 | 1130.0 | 1092.0 | 1052.0 | 1013.0 | 973.0 | 934.0 | 895.0 | 855.0 |
| | kW | 85.1 | 91.9 | 95.1 | 98.1 | 100.9 | 103.5 | 106.0 | 108.2 | 110.4 | 112.2 | 113.9 |
| | SDT(A) | 96.4 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 |
| | SDT(B) | 95.4 | 105.0 | 110.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT(A) | 94.6 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT(B) | 91.5 | 101.0 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 |
| 40 | TC | 1422.0 | 1337.0 | 1294.0 | 1252.0 | 1210.0 | 1168.0 | 1126.0 | 1084.0 | 1042.0 | 1001.0 | 959.0 |
| | kW | 88.2 | 95.7 | 99.3 | 102.7 | 105.9 | 108.9 | 111.7 | 114.2 | 116.7 | 119.0 | 121.1 |
| | SDT(A) | 98.1 | 108.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 150.0 |
| | SDT(B) | 97.2 | 107.0 | 111.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 | 149.0 |
| | SCT(A) | 95.9 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| | SCT(B) | 93.0 | 103.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 | 141.0 | 145.0 |
| 45 | TC | 1561.0 | 1470.0 | 1425.0 | 1379.0 | 1335.0 | 1289.0 | 1245.0 | 1200.0 | 1156.0 | 1111.0 | 1066.0 |
| | kW | 91.2 | 99.6 | 103.6 | 107.3 | 110.8 | 114.2 | 117.4 | 120.3 | 123.2 | 125.8 | 128.3 |
| | SDT(A) | 100.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 142.0 | 147.0 | 152.0 |
| | SDT(B) | 99.2 | 109.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 136.0 | 141.0 | 145.0 | 150.0 |
| | SCT(A) | 97.5 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 | 141.0 | 145.0 | 150.0 |
| | SCT(B) | 94.6 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 137.0 | 142.0 | 147.0 |
| 50 | TC | 1707.0 | 1610.0 | 1562.0 | 1513.0 | 1465.0 | 1417.0 | 1370.0 | 1322.0 | 1274.0 | 1227.0 | 1179.0 |
| | kW | 94.2 | 103.4 | 107.8 | 111.9 | 115.9 | 119.7 | 123.2 | 126.5 | 129.8 | 132.7 | 135.5 |
| | SDT(A) | 102.0 | 112.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 | 149.0 | 153.0 |
| | SDT(B) | 101.0 | 111.0 | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 | 138.0 | 143.0 | 147.0 | 152.0 |
| | SCT(A) | 99.3 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 147.0 | 152.0 |
| | SCT(B) | 96.3 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 148.0 |

LEGEND

- kW** — Compressor Power
- SCT(A)** — Saturated Condensing Temperature (F) for Circuit A (38AH094, 104), or Module 38AH124A or 134A
- SCT(B)** — Saturated Condensing Temperature (F) for Circuit B (38AH094, 104), or Module 38AH124B or 134B
- SDT(A)** — Saturated Discharge Temperature (F) for Circuit A (38AH094, 104), or Module 38AH124A or 134A
- SDT(B)** — Saturated Discharge Temperature (F) for Circuit B (38AH094, 104), or Module 38AH124B or 134B
- SST** — Saturated Suction Temperature Entering Condensing Unit
- TC** — Gross Cooling Capacity (1000 Btu/h)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz English

38AH044 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 147.0 | 135.0 | 128.0 | 122.0 | 116.0 | 109.0 | 102.0 | 95.6 | 88.9 | 82.2 | 75.5 |
| | kW | 11.3 | 12.1 | 12.4 | 12.8 | 13.0 | 13.2 | 13.4 | 13.5 | 13.6 | 13.5 | 13.4 |
| | SDT | 89.4 | 99.1 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 |
| 25 | TC | 166.0 | 153.0 | 147.0 | 140.0 | 133.0 | 126.0 | 120.0 | 113.0 | 106.0 | 98.6 | 91.5 |
| | kW | 11.7 | 12.6 | 13.0 | 13.4 | 13.8 | 14.1 | 14.3 | 14.5 | 14.7 | 14.8 | 14.8 |
| | SDT | 90.3 | 99.9 | 105.0 | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 |
| 30 | TC | 186.0 | 172.0 | 166.1 | 159.0 | 152.0 | 145.0 | 138.0 | 130.0 | 123.0 | 116.0 | 108.0 |
| | kW | 12.1 | 13.1 | 13.6 | 14.1 | 14.5 | 14.9 | 15.2 | 15.5 | 15.7 | 15.9 | 16.0 |
| | SDT | 91.6 | 101.0 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 |
| 35 | TC | 207.0 | 193.0 | 185.0 | 178.0 | 171.0 | 164.0 | 156.0 | 149.0 | 141.0 | 133.0 | 126.0 |
| | kW | 12.5 | 13.7 | 14.2 | 14.7 | 15.2 | 15.6 | 16.1 | 16.4 | 16.7 | 17.0 | 17.2 |
| | SDT | 93.2 | 103.0 | 107.0 | 112.0 | 117.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 |
| 40 | TC | 229.0 | 214.0 | 206.0 | 199.0 | 191.0 | 183.0 | 175.0 | 168.0 | 160.0 | 152.0 | 144.0 |
| | kW | 12.9 | 14.2 | 14.8 | 15.4 | 15.9 | 16.4 | 16.9 | 17.3 | 17.7 | 18.1 | 18.4 |
| | SDT | 95.0 | 104.0 | 109.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 141.0 | 146.0 |
| 45 | TC | 252.0 | 236.0 | 228.0 | 220.0 | 212.0 | 204.0 | 196.0 | 187.0 | 179.0 | 171.0 | 162.0 |
| | kW | 13.3 | 14.7 | 15.3 | 16.0 | 16.6 | 17.2 | 17.7 | 18.2 | 18.7 | 19.1 | 19.5 |
| | SDT | 96.9 | 106.0 | 111.0 | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 | 138.0 | 143.0 | 147.0 |
| 50 | TC | 276.0 | 259.0 | 251.0 | 243.0 | 234.0 | 225.0 | 217.0 | 208.0 | 199.0 | 191.0 | 182.0 |
| | kW | 13.7 | 15.2 | 15.9 | 16.6 | 17.3 | 17.9 | 18.5 | 19.1 | 19.6 | 20.1 | 20.6 |
| | SDT | 99.0 | 108.0 | 113.0 | 117.0 | 122.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 | 149.0 |

38AH054 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 146.0 | 133.0 | 127.0 | 121.0 | 114.0 | 108.0 | 101.0 | 94.2 | 87.6 | 80.9 | 74.2* |
| | kW | 11.8 | 12.5 | 12.8 | 13.1 | 13.3 | 13.4 | 13.5 | 13.5 | 13.5 | 13.4 | 13.2* |
| | SDT | 95.1 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0* |
| 25 | TC | 166.0 | 153.0 | 146.0 | 139.0 | 132.0 | 125.0 | 118.0 | 111.0 | 104.0 | 97.2 | 90.1* |
| | kW | 12.2 | 13.1 | 13.5 | 13.8 | 14.1 | 14.4 | 14.6 | 14.7 | 14.8 | 14.8 | 14.7* |
| | SDT | 95.1 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0* |
| 30 | TC | 188.0 | 174.0 | 166.0 | 159.0 | 152.0 | 145.0 | 137.0 | 130.0 | 122.0 | 115.0 | 107.0* |
| | kW | 12.5 | 13.6 | 14.0 | 14.5 | 14.9 | 15.2 | 15.5 | 15.7 | 15.9 | 16.0 | 16.1* |
| | SDT | 95.3 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0* |
| 35 | TC | 210.0 | 195.0 | 188.0 | 180.0 | 173.0 | 165.0 | 157.0 | 149.0 | 141.0 | 133.0 | 125.0* |
| | kW | 12.8 | 14.0 | 14.6 | 15.1 | 15.6 | 16.0 | 16.4 | 16.7 | 17.0 | 17.2 | 17.4* |
| | SDT | 95.7 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0* |
| 40 | TC | 234.0 | 219.0 | 211.0 | 203.0 | 195.0 | 187.0 | 178.0 | 170.0 | 162.0 | 153.0 | 145.0* |
| | kW | 13.1 | 14.4 | 15.0 | 15.6 | 16.2 | 16.7 | 17.2 | 17.6 | 18.0 | 18.3 | 18.6* |
| | SDT | 96.4 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 | 150.0* |
| 45 | TC | 258.0 | 242.0 | 234.0 | 226.0 | 218.0 | 209.0 | 201.0 | 192.0 | 183.0 | 174.0 | 166.0* |
| | kW | 13.4 | 14.8 | 15.5 | 16.2 | 16.8 | 17.4 | 17.9 | 18.4 | 18.9 | 19.4 | 19.7* |
| | SDT | 97.7 | 107.0 | 112.0 | 117.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0* |
| 50 | TC | 284.0 | 267.0 | 259.0 | 250.0 | 241.0 | 233.0 | 224.0 | 215.0 | 206.0 | 196.0* | 187.0* |
| | kW | 13.7 | 15.2 | 16.0 | 16.7 | 17.4 | 18.1 | 18.7 | 19.3 | 19.8 | 20.4* | 20.8* |
| | SDT | 99.3 | 109.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 146.0* | 151.0* |

38AH064 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 197.0 | 181.0 | 174.0 | 166.0 | 159.0 | 151.0 | 144.0 | 137.0 | 130.0 | 124.0 | 117.0 |
| | kW | 15.7 | 16.7 | 17.2 | 17.6 | 18.0 | 18.4 | 18.7 | 19.0 | 19.3 | 19.5 | 19.7 |
| | SDT | 93.5 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 25 | TC | 222.0 | 205.0 | 197.0 | 189.0 | 181.0 | 173.0 | 165.0 | 158.0 | 150.0 | 143.0 | 135.0 |
| | kW | 16.3 | 17.5 | 18.1 | 18.6 | 19.1 | 19.5 | 19.9 | 20.3 | 20.6 | 20.9 | 21.2 |
| | SDT | 94.2 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 138.0 | 143.0 | 148.0 |
| 30 | TC | 249.0 | 231.0 | 222.0 | 213.0 | 205.0 | 196.0 | 188.0 | 179.0 | 171.0 | 163.0 | 155.0 |
| | kW | 17.0 | 18.3 | 18.9 | 19.5 | 20.1 | 20.6 | 21.1 | 21.6 | 21.9 | 22.3 | 22.6 |
| | SDT | 95.4 | 105.0 | 110.0 | 115.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| 35 | TC | 278.0 | 258.0 | 249.0 | 239.0 | 230.0 | 220.0 | 211.0 | 202.0 | 193.0 | 185.0 | 176.0 |
| | kW | 17.6 | 19.1 | 19.8 | 20.5 | 21.1 | 21.7 | 22.3 | 22.8 | 23.3 | 23.7 | 24.1 |
| | SDT | 96.9 | 106.0 | 111.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| 40 | TC | 308.0 | 287.0 | 276.0 | 266.0 | 256.0 | 246.0 | 236.0 | 227.0 | 217.0 | 208.0 | 198.0* |
| | kW | 18.3 | 19.9 | 20.7 | 21.5 | 22.2 | 22.8 | 23.4 | 24.0 | 24.6 | 25.1 | 25.6* |
| | SDT | 98.8 | 108.0 | 113.0 | 117.0 | 122.0 | 127.0 | 132.0 | 136.0 | 141.0 | 146.0 | 151.0* |
| 45 | TC | 339.0 | 316.0 | 305.0 | 294.0 | 284.0 | 273.0 | 262.0 | 252.0 | 242.0 | 232.0 | 221.0* |
| | kW | 19.0 | 20.8 | 21.6 | 22.4 | 23.2 | 24.0 | 24.7 | 25.3 | 26.0 | 26.6 | 27.1* |
| | SDT | 101.0 | 110.0 | 115.0 | 119.0 | 124.0 | 129.0 | 133.0 | 138.0 | 143.0 | 147.0 | 152.0* |
| 50 | TC | 372.0 | 348.0 | 336.0 | 324.0 | 313.0 | 301.0 | 290.0 | 279.0 | 268.0 | 257.0 | 246.0* |
| | kW | 19.6 | 21.6 | 22.5 | 23.4 | 24.3 | 25.1 | 25.9 | 26.6 | 27.3 | 28.0 | 28.6* |
| | SDT | 103.0 | 112.0 | 117.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 144.0 | 149.0 | 154.0* |

LEGEND

kW — Compressor Power
SDT — Saturated Discharge Temperature (leaving compressor) (F)
SST — Saturated Suction Temperature (entering condensing unit)
TC — Total Cooling Capacity, Gross (1000 Btuh)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz English (cont)

38AH044 CIRCUIT B

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 146.0 | 133.0 | 127.0 | 120.0 | 114.0 | 107.0 | 100.0 | 93.7 | 87.0 | 80.4 | 73.6 |
| | kW | 11.6 | 12.3 | 12.7 | 13.0 | 13.2 | 13.4 | 13.5 | 13.5 | 13.5 | 13.5 | 13.3 |
| | SDT | 92.6 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 25 | TC | 166.0 | 152.0 | 145.0 | 139.0 | 132.0 | 125.0 | 118.0 | 111.0 | 104.0 | 96.5 | 89.3 |
| | kW | 12.0 | 12.9 | 13.3 | 13.7 | 14.0 | 14.3 | 14.5 | 14.6 | 14.7 | 14.8 | 14.7 |
| | SDT | 92.9 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 30 | TC | 187.0 | 173.0 | 165.0 | 158.0 | 151.0 | 144.0 | 136.0 | 129.0 | 121.0 | 114.0 | 106.0 |
| | kW | 12.3 | 13.4 | 13.9 | 14.3 | 14.7 | 15.1 | 15.4 | 15.6 | 15.9 | 16.0 | 16.1 |
| | SDT | 93.2 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 35 | TC | 209.0 | 194.0 | 187.0 | 179.0 | 171.0 | 164.0 | 156.0 | 148.0 | 140.0 | 132.0 | 124.0 |
| | kW | 12.6 | 13.8 | 14.4 | 14.9 | 15.4 | 15.8 | 16.2 | 16.6 | 16.9 | 17.1 | 17.3 |
| | SDT | 93.9 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 40 | TC | 233.0 | 217.0 | 209.0 | 201.0 | 193.0 | 185.0 | 176.0 | 168.0 | 160.0 | 151.0 | 143.0 |
| | kW | 12.9 | 14.2 | 14.9 | 15.5 | 16.0 | 16.6 | 17.1 | 17.4 | 17.9 | 18.2 | 18.5 |
| | SDT | 94.7 | 105.0 | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| 45 | TC | 257.0 | 241.0 | 232.0 | 224.0 | 215.0 | 207.0 | 198.0 | 189.0 | 180.0 | 172.0 | 163.0 |
| | kW | 13.1 | 14.6 | 15.3 | 16.0 | 16.6 | 17.2 | 17.8 | 18.3 | 18.8 | 19.3 | 19.7 |
| | SDT | 95.8 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| 50 | TC | 284.0 | 266.0 | 257.0 | 248.0 | 239.0 | 230.0 | 221.0 | 211.0 | 202.0 | 193.0 | 184.0 |
| | kW | 13.3 | 15.0 | 15.8 | 16.5 | 17.2 | 17.9 | 18.6 | 19.1 | 19.7 | 20.3 | 20.7 |
| | SDT | 97.0 | 107.0 | 112.0 | 117.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 150.0 |

38AH054 CIRCUIT B

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 195.0 | 180.0 | 172.0 | 165.0 | 158.0 | 151.0 | 144.0 | 137.0 | 130.0 | 124.0 | 117.0* |
| | kW | 16.0 | 17.0 | 17.4 | 17.8 | 18.2 | 18.6 | 18.9 | 19.1 | 19.4 | 19.6 | 19.8* |
| | SDT | 96.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0* |
| 25 | TC | 221.0 | 204.0 | 196.0 | 188.0 | 180.0 | 172.0 | 164.0 | 157.0 | 149.0 | 142.0 | 135.0* |
| | kW | 16.7 | 17.8 | 18.3 | 18.8 | 19.3 | 19.7 | 20.1 | 20.4 | 20.8 | 21.1 | 21.3* |
| | SDT | 96.8 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0* |
| 30 | TC | 247.0 | 229.0 | 220.0 | 212.0 | 203.0 | 195.0 | 186.0 | 178.0 | 170.0 | 162.0 | 154.0* |
| | kW | 17.4 | 18.7 | 19.3 | 19.8 | 20.4 | 20.9 | 21.3 | 21.7 | 22.1 | 22.5 | 22.8* |
| | SDT | 98.1 | 108.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 146.0 | 151.0* |
| 35 | TC | 275.0 | 256.0 | 246.0 | 237.0 | 228.0 | 219.0 | 210.0 | 201.0 | 192.0 | 183.0 | 175.0* |
| | kW | 18.1 | 19.5 | 20.2 | 20.8 | 21.4 | 22.0 | 22.5 | 23.0 | 23.5 | 23.9 | 24.3* |
| | SDT | 99.7 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 142.0 | 147.0 | 152.0* |
| 40 | TC | 304.0 | 284.0 | 274.0 | 264.0 | 254.0 | 244.0 | 234.0 | 225.0 | 215.0 | 206.0 | 196.0* |
| | kW | 18.8 | 20.4 | 21.1 | 21.9 | 22.5 | 23.2 | 23.8 | 24.3 | 24.9 | 25.4 | 25.9* |
| | SDT | 102.0 | 111.0 | 115.0 | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 148.0 | 153.0* |
| 45 | TC | 335.0 | 313.0 | 303.0 | 292.0 | 281.0 | 271.0 | 260.0 | 250.0 | 240.0 | 229.0 | 219.0* |
| | kW | 19.5 | 21.3 | 22.1 | 22.9 | 23.6 | 24.4 | 25.1 | 25.7 | 26.3 | 26.9 | 27.4* |
| | SDT | 104.0 | 113.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 | 141.0 | 145.0 | 150.0 | 155.0* |
| 50 | TC | 368.0 | 344.0 | 333.0 | 321.0 | 310.0 | 299.0 | 287.0 | 276.0 | 265.0 | 254.0* | 244.0* |
| | kW | 20.3 | 22.2 | 23.1 | 23.9 | 24.8 | 25.6 | 26.3 | 27.0 | 27.7 | 28.4* | 29.0* |
| | SDT | 106.0 | 115.0 | 120.0 | 124.0 | 129.0 | 133.0 | 138.0 | 142.0 | 147.0 | 152.0* | 156.0* |

38AH064 CIRCUIT B

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 218.0 | 202.0 | 194.0 | 186.0 | 178.0 | 170.0 | 162.0 | 153.0 | 145.0 | 137.0 | 129.0 |
| | kW | 17.9 | 19.0 | 19.5 | 19.9 | 20.3 | 20.6 | 20.9 | 21.1 | 21.2 | 21.3 | 21.3 |
| | SDT | 93.2 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 25 | TC | 246.0 | 229.0 | 220.0 | 212.0 | 203.0 | 194.0 | 185.0 | 177.0 | 168.0 | 159.0 | 150.0 |
| | kW | 18.6 | 19.9 | 20.5 | 21.0 | 21.5 | 21.9 | 22.3 | 22.5 | 22.8 | 23.0 | 23.1 |
| | SDT | 93.7 | 104.0 | 109.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 30 | TC | 274.0 | 256.0 | 247.0 | 238.0 | 229.0 | 220.0 | 211.0 | 201.0 | 192.0 | 183.0 | 173.0 |
| | kW | 19.2 | 20.7 | 21.4 | 22.0 | 22.6 | 23.1 | 23.6 | 24.0 | 24.4 | 24.7 | 24.9 |
| | SDT | 94.5 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| 35 | TC | 304.0 | 286.0 | 276.0 | 266.0 | 257.0 | 247.0 | 237.0 | 227.0 | 217.0 | 208.0 | 198.0 |
| | kW | 19.8 | 21.5 | 22.3 | 23.0 | 23.7 | 24.3 | 24.9 | 25.4 | 25.9 | 26.3 | 26.6 |
| | SDT | 95.7 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| 40 | TC | 336.0 | 316.0 | 306.0 | 296.0 | 286.0 | 275.0 | 265.0 | 254.0 | 244.0 | 234.0 | 223.0* |
| | kW | 20.4 | 22.3 | 23.2 | 24.0 | 24.8 | 25.5 | 26.2 | 26.8 | 27.4 | 27.9 | 28.4* |
| | SDT | 97.1 | 107.0 | 112.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 | 150.0* |
| 45 | TC | 369.0 | 348.0 | 337.0 | 326.0 | 316.0 | 305.0 | 294.0 | 283.0 | 272.0 | 261.0 | 250.0* |
| | kW | 21.0 | 23.1 | 24.1 | 25.0 | 25.9 | 26.7 | 27.5 | 28.2 | 28.9 | 29.5 | 30.0* |
| | SDT | 98.9 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 146.0 | 151.0* |
| 50 | TC | 404.0 | 381.0 | 370.0 | 358.0 | 347.0 | 335.0 | 324.0 | 312.0 | 301.0 | 289.0 | 277.0* |
| | kW | 21.6 | 23.9 | 25.0 | 26.0 | 27.0 | 27.9 | 28.8 | 29.6 | 30.4 | 31.1 | 31.7* |
| | SDT | 101.0 | 110.0 | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 | 139.0 | 143.0 | 148.0 | 153.0* |

LEGEND

kW — Compressor Power
SDT — Saturated Discharge Temperature (leaving compressor) (F)
SST — Saturated Suction Temperature (entering condensing unit)
TC — Total Cooling Capacity, Gross (1000 Btuh)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz English (cont)

38AH074 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 221.0 | 205.0 | 197.0 | 189.0 | 181.0 | 173.0 | 165.0 | 157.0 | 149.0 | 140.0 | 132.0 |
| | kW | 17.8 | 18.9 | 19.4 | 19.9 | 20.3 | 20.6 | 20.9 | 21.0 | 21.2 | 21.3 | 21.3 |
| | SDT | 92.4 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 25 | TC | 249.0 | 232.0 | 224.0 | 215.0 | 206.0 | 198.0 | 189.0 | 180.0 | 172.0 | 163.0 | 154.0 |
| | kW | 18.4 | 19.7 | 20.3 | 20.9 | 21.4 | 21.8 | 22.2 | 22.5 | 22.8 | 23.0 | 23.1 |
| | SDT | 92.7 | 103.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 30 | TC | 277.0 | 260.0 | 251.0 | 242.0 | 233.0 | 224.0 | 215.0 | 206.0 | 196.0 | 187.0 | 178.0 |
| | kW | 19.0 | 20.5 | 21.2 | 21.9 | 22.5 | 23.0 | 23.5 | 23.9 | 24.3 | 24.6 | 24.8 |
| | SDT | 93.6 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 137.0 | 142.0 | 147.0 |
| 35 | TC | 307.0 | 288.0 | 279.0 | 270.0 | 261.0 | 251.0 | 242.0 | 232.0 | 222.0 | 212.0 | 203.0 |
| | kW | 19.7 | 21.3 | 22.1 | 22.8 | 23.5 | 24.2 | 24.7 | 25.3 | 25.8 | 26.2 | 26.5 |
| | SDT | 95.0 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 40 | TC | 338.0 | 318.0 | 309.0 | 299.0 | 289.0 | 279.0 | 269.0 | 259.0 | 249.0 | 239.0 | 228.0 |
| | kW | 20.3 | 22.2 | 23.0 | 23.8 | 24.6 | 25.3 | 26.0 | 26.6 | 27.2 | 27.7 | 28.2 |
| | SDT | 96.7 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 129.0 | 134.0 | 139.0 | 143.0 | 148.0 |
| 45 | TC | 370.0 | 350.0 | 340.0 | 329.0 | 319.0 | 308.0 | 298.0 | 287.0 | 277.0 | 266.0 | 255.0* |
| | kW | 20.9 | 23.0 | 23.9 | 24.8 | 25.7 | 26.5 | 27.3 | 28.0 | 28.7 | 29.3 | 29.9* |
| | SDT | 98.6 | 108.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 | 149.0* |
| 50 | TC | 405.0 | 383.0 | 372.0 | 361.0 | 350.0 | 339.0 | 328.0 | 316.0 | 305.0 | 294.0 | 282.0* |
| | kW | 21.5 | 23.7 | 24.8 | 25.8 | 26.8 | 27.7 | 28.6 | 29.4 | 30.2 | 30.9 | 31.5* |
| | SDT | 101.0 | 110.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 146.0 | 151.0* |

38AH084 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 286.0 | 267.0 | 258.0 | 249.0 | 240.0 | 231.0 | 222.0 | 214.0 | 205.0 | 197.0 | 188.0* |
| | kW | 25.5 | 26.8 | 27.4 | 27.9 | 28.4 | 28.9 | 29.3 | 29.7 | 30.0 | 30.4 | 30.6* |
| | SDT | 98.1 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 | 153.0* |
| 25 | TC | 321.0 | 301.0 | 291.0 | 281.0 | 271.0 | 261.0 | 252.0 | 242.0 | 233.0 | 223.0 | 214.0* |
| | kW | 26.6 | 28.1 | 28.8 | 29.5 | 30.1 | 30.6 | 31.2 | 31.6 | 32.1 | 32.5 | 32.8* |
| | SDT | 98.1 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 | 153.0* |
| 30 | TC | 360.0 | 337.0 | 326.0 | 315.0 | 305.0 | 294.0 | 283.0 | 273.0 | 262.0 | 252.0 | 242.0* |
| | kW | 27.6 | 29.4 | 30.2 | 31.0 | 31.7 | 32.4 | 33.0 | 33.5 | 34.1 | 34.6 | 35.0* |
| | SDT | 98.3 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 | 153.0* |
| 35 | TC | 400.0 | 376.0 | 364.0 | 352.0 | 341.0 | 329.0 | 317.0 | 306.0 | 294.0 | 283.0 | 272.0* |
| | kW | 28.6 | 30.6 | 31.6 | 32.5 | 33.3 | 34.1 | 34.8 | 35.5 | 36.1 | 36.7 | 37.3* |
| | SDT | 98.9 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 148.0 | 153.0* |
| 40 | TC | 443.0 | 417.0 | 404.0 | 392.0 | 379.0 | 366.0 | 354.0 | 341.0 | 329.0 | 316.0 | 304.0* |
| | kW | 29.6 | 31.9 | 32.9 | 33.9 | 34.9 | 35.8 | 36.6 | 37.4 | 38.2 | 38.9 | 39.5* |
| | SDT | 99.9 | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 | 154.0* |
| 45 | TC | 488.0 | 460.0 | 446.0 | 433.0 | 419.0 | 405.0 | 392.0 | 379.0 | 365.0 | 352.0 | 339.0* |
| | kW | 30.7 | 33.2 | 34.3 | 35.5 | 36.5 | 37.5 | 38.5 | 39.4 | 40.2 | 41.0 | 41.8* |
| | SDT | 101.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0 | 155.0* |
| 50 | TC | 534.0 | 505.0 | 490.0 | 475.0 | 461.0 | 446.0 | 432.0 | 418.0 | 403.0 | 389.0* | 375.0* |
| | kW | 31.8 | 34.5 | 35.8 | 37.0 | 38.2 | 39.3 | 40.4 | 41.3 | 42.3 | 43.2* | 44.1* |
| | SDT | 103.0 | 113.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0* | 155.0* |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (F)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Total Cooling Capacity, Gross (1000 Btuh)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz English (cont)

| 38AH074 CIRCUIT B | | | | | | | | | | | | |
|-------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 292.0 | 273.0 | 264.0 | 255.0 | 246.0 | 237.0 | 228.0 | 219.0 | 211.0 | 202.0 | 194.0 |
| | kW | 24.6 | 26.0 | 26.6 | 27.2 | 27.8 | 28.3 | 28.7 | 29.2 | 29.6 | 29.9 | 30.3 |
| | SDT | 91.7 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 142.0 | 147.0 |
| 25 | TC | 325.0 | 306.0 | 296.0 | 286.0 | 276.0 | 267.0 | 257.0 | 248.0 | 238.0 | 229.0 | 219.0 |
| | kW | 25.7 | 27.3 | 28.0 | 28.7 | 29.3 | 29.9 | 30.5 | 31.0 | 31.5 | 31.9 | 32.3 |
| | SDT | 92.7 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 30 | TC | 361.0 | 340.0 | 329.0 | 319.0 | 308.0 | 298.0 | 288.0 | 277.0 | 267.0 | 257.0 | 247.0 |
| | kW | 26.8 | 28.6 | 29.4 | 30.2 | 30.9 | 31.6 | 32.3 | 32.9 | 33.5 | 34.0 | 34.5 |
| | SDT | 94.2 | 104.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 35 | TC | 399.0 | 376.0 | 364.0 | 353.0 | 342.0 | 330.0 | 319.0 | 308.0 | 298.0 | 287.0 | 276.0 |
| | kW | 28.0 | 30.0 | 30.9 | 31.8 | 32.6 | 33.4 | 34.1 | 34.8 | 35.5 | 36.1 | 36.7 |
| | SDT | 96.0 | 105.0 | 110.0 | 115.0 | 119.0 | 124.0 | 129.0 | 134.0 | 138.0 | 143.0 | 148.0 |
| 40 | TC | 438.0 | 413.0 | 401.0 | 389.0 | 377.0 | 365.0 | 353.0 | 341.0 | 329.0 | 318.0 | 306.0 |
| | kW | 29.2 | 31.4 | 32.4 | 33.4 | 34.3 | 35.2 | 36.0 | 36.8 | 37.6 | 38.3 | 38.9 |
| | SDT | 97.9 | 107.0 | 112.0 | 117.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 | 149.0 |
| 45 | TC | 480.0 | 453.0 | 440.0 | 427.0 | 414.0 | 401.0 | 388.0 | 375.0 | 363.0 | 350.0 | 338.0* |
| | kW | 30.3 | 32.8 | 33.9 | 35.0 | 36.1 | 37.0 | 38.0 | 38.8 | 39.7 | 40.5 | 41.2* |
| | SDT | 100.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 132.0 | 137.0 | 142.0 | 146.0 | 151.0* |
| 50 | TC | 525.0 | 496.0 | 481.0 | 467.0 | 453.0 | 439.0 | 425.0 | 411.0 | 398.0 | 384.0 | 371.0* |
| | kW | 31.5 | 34.2 | 35.5 | 36.7 | 37.8 | 38.9 | 40.0 | 40.9 | 41.9 | 42.8 | 43.6* |
| | SDT | 102.0 | 111.0 | 116.0 | 121.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 148.0 | 153.0* |

| 38AH084 CIRCUIT B | | | | | | | | | | | | |
|-------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 288.0 | 269.0 | 260.0 | 251.0 | 242.0 | 233.0 | 224.0 | 215.0 | 207.0 | 198.0 | 190.0* |
| | kW | 25.2 | 26.5 | 27.1 | 27.7 | 28.2 | 28.7 | 29.1 | 29.5 | 29.9 | 30.2 | 30.5* |
| | SDT | 96.1 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0* |
| 25 | TC | 323.0 | 303.0 | 293.0 | 283.0 | 273.0 | 263.0 | 253.0 | 244.0 | 234.0 | 225.0 | 216.0* |
| | kW | 26.3 | 27.8 | 28.5 | 29.2 | 29.8 | 30.4 | 30.9 | 31.4 | 31.9 | 32.3 | 32.7* |
| | SDT | 96.2 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0* |
| 30 | TC | 361.0 | 339.0 | 328.0 | 317.0 | 306.0 | 296.0 | 285.0 | 275.0 | 264.0 | 254.0 | 244.0* |
| | kW | 27.3 | 29.1 | 29.9 | 30.7 | 31.4 | 32.1 | 32.7 | 33.3 | 33.9 | 34.4 | 34.9* |
| | SDT | 96.5 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0* |
| 35 | TC | 402.0 | 378.0 | 366.0 | 354.0 | 342.0 | 331.0 | 319.0 | 308.0 | 296.0 | 285.0 | 274.0* |
| | kW | 28.3 | 30.3 | 31.3 | 32.2 | 33.0 | 33.8 | 34.5 | 35.2 | 35.9 | 36.5 | 37.1* |
| | SDT | 97.3 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 146.0 | 151.0* |
| 40 | TC | 444.0 | 418.0 | 405.0 | 393.0 | 380.0 | 368.0 | 355.0 | 343.0 | 330.0 | 318.0 | 306.0* |
| | kW | 29.3 | 31.6 | 32.6 | 33.6 | 34.6 | 35.5 | 36.3 | 37.1 | 37.9 | 38.6 | 39.3* |
| | SDT | 98.5 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 | 152.0* |
| 45 | TC | 488.0 | 460.0 | 447.0 | 433.0 | 420.0 | 406.0 | 393.0 | 379.0 | 366.0 | 353.0 | 340.0* |
| | kW | 30.4 | 32.9 | 34.0 | 35.1 | 36.2 | 37.2 | 38.2 | 39.1 | 40.0 | 40.8 | 41.5* |
| | SDT | 100.0 | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 133.0 | 138.0 | 143.0 | 148.0 | 153.0* |
| 50 | TC | 533.0 | 504.0 | 490.0 | 475.0 | 461.0 | 446.0 | 432.0 | 418.0 | 404.0 | 390.0 | 375.0* |
| | kW | 31.5 | 34.2 | 35.5 | 36.7 | 37.9 | 39.0 | 40.1 | 41.1 | 42.1 | 43.0 | 43.8* |
| | SDT | 102.0 | 111.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 | 154.0* |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (F)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Total Cooling Capacity, Gross (1000 Btuh)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz English (cont)

38AH094 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 366.0 | 338.0 | 324.0 | 310.0 | 295.0 | 281.0 | 266.0 | 251.0 | 236.0 | 221.0 | 207.0 |
| | KW | 29.7 | 31.4 | 32.3 | 33.0 | 33.6 | 34.1 | 34.4 | 34.7 | 34.8 | 34.7 | 34.5 |
| | SDT | 93.9 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT | 91.7 | 102.0 | 107.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 25 | TC | 411.0 | 382.0 | 367.0 | 352.0 | 337.0 | 322.0 | 307.0 | 291.0 | 276.0 | 260.0 | 244.0 |
| | KW | 30.9 | 33.0 | 34.0 | 34.8 | 35.6 | 36.3 | 36.8 | 37.3 | 37.6 | 37.8 | 37.8 |
| | SDT | 95.0 | 105.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT | 92.1 | 102.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 30 | TC | 457.0 | 427.0 | 412.0 | 396.0 | 381.0 | 365.0 | 349.0 | 333.0 | 317.0 | 300.0 | 284.0 |
| | KW | 32.2 | 34.5 | 35.7 | 36.7 | 37.6 | 38.4 | 39.2 | 39.8 | 40.3 | 40.7 | 41.0 |
| | SDT | 96.7 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT | 93.0 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 35 | TC | 505.0 | 474.0 | 458.0 | 442.0 | 426.0 | 409.0 | 392.0 | 376.0 | 359.0 | 342.0 | 325.0 |
| | KW | 33.6 | 36.1 | 37.4 | 38.6 | 39.6 | 40.6 | 41.5 | 42.3 | 43.0 | 43.6 | 44.1 |
| | SDT | 98.7 | 108.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 | 150.0 |
| | SCT | 94.3 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| 40 | TC | 556.0 | 522.0 | 506.0 | 489.0 | 472.0 | 455.0 | 437.0 | 420.0 | 402.0 | 384.0 | 367.0 |
| | KW | 35.0 | 37.8 | 39.2 | 40.5 | 41.7 | 42.8 | 43.9 | 44.8 | 45.7 | 46.4 | 47.1 |
| | SDT | 101.0 | 110.0 | 115.0 | 119.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 146.0 | 151.0 |
| | SCT | 95.7 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| 45 | TC | 608.0 | 573.0 | 556.0 | 538.0 | 520.0 | 502.0 | 484.0 | 465.0 | 447.0 | 428.0 | 410.0 |
| | KW | 36.4 | 39.4 | 41.0 | 42.4 | 43.8 | 45.1 | 46.2 | 47.4 | 48.4 | 49.3 | 50.1 |
| | SDT | 104.0 | 112.0 | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 139.0 | 144.0 | 148.0 | 153.0 |
| | SCT | 97.4 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 146.0 | 151.0 |
| 50 | TC | 663.0 | 626.0 | 608.0 | 589.0 | 570.0 | 551.0 | 532.0 | 512.0 | 493.0 | 473.0 | 454.0 |
| | KW | 37.8 | 41.1 | 42.8 | 44.4 | 45.9 | 47.3 | 48.7 | 49.9 | 51.1 | 52.2 | 53.2 |
| | SDT | 106.0 | 115.0 | 119.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 146.0 | 150.0 | 155.0* |
| | SCT | 99.1 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 143.0 | 148.0 | 153.0 |

38AH104 CIRCUIT A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 349.0 | 321.0 | 308.0 | 294.0 | 280.0 | 267.0 | 253.0 | 240.0 | 226.0 | 213.0 | 200.0 |
| | KW | 27.0 | 28.8 | 29.6 | 30.4 | 31.0 | 31.6 | 32.1 | 32.5 | 32.8 | 32.9 | 33.0 |
| | SDT | 91.9 | 102.0 | 107.0 | 112.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| | SCT | 89.8 | 100.0 | 105.0 | 110.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| 25 | TC | 392.0 | 363.0 | 349.0 | 335.0 | 320.0 | 306.0 | 291.0 | 277.0 | 263.0 | 248.0 | 234.0 |
| | KW | 28.1 | 30.1 | 31.1 | 32.0 | 32.8 | 33.6 | 34.2 | 34.7 | 35.2 | 35.6 | 35.8 |
| | SDT | 93.0 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 141.0 | 146.0 |
| | SCT | 90.2 | 100.0 | 105.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| 30 | TC | 437.0 | 407.0 | 392.0 | 377.0 | 361.0 | 346.0 | 331.0 | 316.0 | 301.0 | 286.0 | 271.0 |
| | KW | 29.3 | 31.6 | 32.7 | 33.7 | 34.6 | 35.5 | 36.3 | 37.0 | 37.6 | 38.1 | 38.6 |
| | SDT | 94.7 | 104.0 | 109.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT | 91.2 | 101.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| 35 | TC | 484.0 | 452.0 | 436.0 | 420.0 | 404.0 | 388.0 | 372.0 | 356.0 | 340.0 | 324.0 | 308.0 |
| | KW | 30.6 | 33.0 | 34.3 | 35.4 | 36.4 | 37.4 | 38.4 | 39.2 | 40.0 | 40.7 | 41.3 |
| | SDT | 96.7 | 106.0 | 110.0 | 115.0 | 119.0 | 124.0 | 129.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT | 92.5 | 103.0 | 108.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 40 | TC | 534.0 | 500.0 | 483.0 | 466.0 | 449.0 | 432.0 | 415.0 | 398.0 | 381.0 | 364.0 | 348.0 |
| | KW | 38.1 | 34.5 | 35.9 | 37.1 | 38.3 | 39.4 | 40.5 | 41.5 | 42.4 | 43.2 | 44.0 |
| | SDT | 98.9 | 108.0 | 112.0 | 117.0 | 121.0 | 126.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 |
| | SCT | 94.0 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 45 | TC | 586.0 | 550.0 | 532.0 | 514.0 | 495.0 | 478.0 | 460.0 | 442.0 | 424.0 | 406.0 | 388.0 |
| | KW | 33.0 | 36.0 | 37.5 | 38.9 | 40.2 | 41.5 | 42.6 | 43.8 | 44.8 | 45.8 | 46.7 |
| | SDT | 101.0 | 110.0 | 115.0 | 119.0 | 124.0 | 128.0 | 132.0 | 137.0 | 141.0 | 146.0 | 150.0 |
| | SCT | 95.6 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 |
| 50 | TC | 640.0 | 602.0 | 583.0 | 564.0 | 544.0 | 525.0 | 506.0 | 487.0 | 468.0 | 449.0 | 431.0 |
| | KW | 34.3 | 37.5 | 39.2 | 40.7 | 42.1 | 43.5 | 44.8 | 46.1 | 47.3 | 48.4 | 49.4 |
| | SDT | 104.0 | 113.0 | 117.0 | 122.0 | 126.0 | 130.0 | 135.0 | 139.0 | 144.0 | 148.0 | 152.0 |
| | SCT | 97.3 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 141.0 | 146.0 | 151.0 |

LEGEND

- KW** — Compressor Power
- SCT** — Saturated Condensing Temperature (F)
- SDT** — Saturated Discharge Temperature (leaving compressor) (F)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Total Cooling Capacity, Gross (1000 Btuh)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz English (cont)

| 38AH094 CIRCUIT B | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|-------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SST (F) | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 291.0 | 273.0 | 264.0 | 254.0 | 245.0 | 236.0 | 228.0 | 219.0 | 210.0 | 202.0 | 193.0 |
| | KW | 24.6 | 26.0 | 26.7 | 27.2 | 27.8 | 28.3 | 28.8 | 29.2 | 29.6 | 30.0 | 30.3 |
| | SDT | 92.1 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT | 90.4 | 101.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 142.0 | 147.0 |
| 25 | TC | 327.0 | 307.0 | 296.0 | 286.0 | 277.0 | 267.0 | 257.0 | 247.0 | 238.0 | 228.0 | 219.0 |
| | KW | 25.6 | 27.2 | 28.0 | 28.7 | 29.3 | 29.9 | 30.5 | 31.0 | 31.5 | 32.0 | 32.4 |
| | SDT | 92.4 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT | 90.2 | 100.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| 30 | TC | 364.0 | 342.0 | 331.0 | 320.0 | 310.0 | 299.0 | 289.0 | 278.0 | 268.0 | 257.0 | 247.0 |
| | KW | 26.6 | 28.4 | 29.3 | 30.1 | 30.9 | 31.6 | 32.3 | 32.9 | 33.5 | 34.0 | 34.5 |
| | SDT | 93.3 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT | 90.5 | 101.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 |
| 35 | TC | 402.0 | 379.0 | 367.0 | 356.0 | 345.0 | 333.0 | 322.0 | 310.0 | 299.0 | 288.0 | 277.0 |
| | KW | 27.7 | 29.7 | 30.7 | 31.6 | 32.4 | 33.2 | 34.0 | 34.7 | 35.4 | 36.0 | 36.6 |
| | SDT | 94.7 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT | 91.2 | 101.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 40 | TC | 443.0 | 418.0 | 405.0 | 393.0 | 381.0 | 369.0 | 356.0 | 344.0 | 332.0 | 320.0 | 308.0 |
| | KW | 28.8 | 31.0 | 32.1 | 33.1 | 34.1 | 35.0 | 35.8 | 36.6 | 37.4 | 38.1 | 38.8 |
| | SDT | 96.5 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT | 92.3 | 102.0 | 108.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 45 | TC | 485.0 | 458.0 | 445.0 | 432.0 | 419.0 | 406.0 | 393.0 | 380.0 | 367.0 | 354.0 | 341.0 |
| | KW | 29.9 | 32.4 | 33.6 | 34.7 | 35.7 | 36.7 | 37.7 | 38.6 | 39.5 | 40.3 | 41.1 |
| | SDT | 98.6 | 108.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 | 150.0 |
| | SCT | 93.6 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 138.0 | 143.0 | 148.0 |
| 50 | TC | 530.0 | 501.0 | 487.0 | 473.0 | 459.0 | 445.0 | 431.0 | 417.0 | 403.0 | 389.0 | 375.0 |
| | KW | 31.1 | 33.7 | 35.0 | 36.3 | 37.4 | 38.5 | 39.6 | 40.6 | 41.6 | 42.5 | 43.4 |
| | SDT | 101.0 | 110.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 147.0 | 151.0 |
| | SCT | 95.1 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 149.0 |

| 38AH104 CIRCUIT B | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|-------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| SST (F) | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 398.0 | 368.0 | 353.0 | 339.0 | 324.0 | 310.0 | 296.0 | 283.0 | 269.0 | 256.0 | 243.0 |
| | KW | 31.4 | 33.4 | 34.3 | 35.2 | 36.0 | 36.7 | 37.4 | 38.0 | 38.5 | 39.0 | 39.4 |
| | SDT | 93.5 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 142.0 | 147.0 |
| | SCT | 90.9 | 101.0 | 106.0 | 111.0 | 116.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 25 | TC | 445.0 | 414.0 | 398.0 | 383.0 | 367.0 | 352.0 | 337.0 | 322.0 | 308.0 | 293.0 | 279.0 |
| | KW | 32.9 | 35.1 | 36.2 | 37.2 | 38.1 | 39.0 | 39.8 | 40.5 | 41.2 | 41.8 | 42.3 |
| | SDT | 95.1 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT | 91.7 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| 30 | TC | 495.0 | 462.0 | 445.0 | 428.0 | 412.0 | 396.0 | 380.0 | 364.0 | 348.0 | 333.0 | 317.0 |
| | KW | 34.5 | 36.9 | 38.1 | 39.2 | 40.3 | 41.3 | 42.2 | 43.0 | 43.8 | 44.6 | 45.2 |
| | SDT | 97.1 | 106.0 | 111.0 | 115.0 | 120.0 | 125.0 | 129.0 | 134.0 | 139.0 | 144.0 | 148.0 |
| | SCT | 92.9 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 35 | TC | 548.0 | 512.0 | 494.0 | 476.0 | 459.0 | 441.0 | 424.0 | 407.0 | 391.0 | 374.0 | 357.0 |
| | KW | 36.1 | 38.8 | 40.1 | 41.4 | 42.5 | 43.6 | 44.7 | 45.7 | 46.6 | 47.4 | 48.2 |
| | SDT | 99.4 | 108.0 | 113.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 140.0 | 145.0 | 150.0 |
| | SCT | 94.4 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 148.0 |
| 40 | TC | 603.0 | 565.0 | 546.0 | 527.0 | 508.0 | 489.0 | 471.0 | 453.0 | 435.0 | 417.0 | 399.0 |
| | KW | 37.7 | 40.7 | 42.2 | 43.6 | 44.9 | 46.1 | 47.3 | 48.4 | 49.4 | 50.4 | 51.3 |
| | SDT | 102.0 | 111.0 | 115.0 | 120.0 | 124.0 | 128.0 | 133.0 | 137.0 | 142.0 | 147.0 | 151.0 |
| | SCT | 96.0 | 106.0 | 111.0 | 116.0 | 121.0 | 126.0 | 131.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| 45 | TC | 661.0 | 620.0 | 600.0 | 580.0 | 559.0 | 539.0 | 520.0 | 500.0 | 481.0 | 462.0 | 443.0 |
| | KW | 39.4 | 42.7 | 44.3 | 45.8 | 47.2 | 48.6 | 49.9 | 51.1 | 52.3 | 53.4 | 54.5 |
| | SDT | 105.0 | 113.0 | 118.0 | 122.0 | 126.0 | 131.0 | 135.0 | 140.0 | 144.0 | 149.0 | 153.0 |
| | SCT | 97.8 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 132.0 | 137.0 | 142.0 | 147.0 | 151.0 |
| 50 | TC | 723.0 | 679.0 | 657.0 | 635.0 | 614.0 | 592.0 | 571.0 | 550.0 | 530.0 | 509.0 | 488.0 |
| | KW | 41.2 | 44.7 | 46.4 | 48.1 | 49.6 | 51.2 | 52.6 | 54.0 | 55.3 | 56.5 | 57.7 |
| | SDT | 108.0 | 116.0 | 120.0 | 125.0 | 129.0 | 133.0 | 138.0 | 142.0 | 146.0 | 151.0 | 155.0* |
| | SCT | 99.6 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 148.0 | 153.0 |

LEGEND

- KW** — Compressor Power
- SCT** — Saturated Condensing Temperature (F)
- SDT** — Saturated Discharge Temperature (leaving compressor) (F)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Total Cooling Capacity, Gross (1000 Btuh)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz English (cont)

38AH124 MODULE 124A OR 124B; 38AH134 MODULE 134A

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 417.0 | 386.0 | 370.0 | 355.0 | 339.0 | 324.0 | 309.0 | 294.0 | 279.0 | 264.0 | 249.0 |
| | KW | 33.6 | 35.7 | 36.7 | 37.6 | 38.4 | 39.0 | 39.6 | 40.1 | 40.5 | 40.8 | 41.0 |
| | SDT | 93.3 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT | 92.4 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 25 | TC | 470.0 | 436.0 | 420.0 | 403.0 | 386.0 | 370.0 | 354.0 | 337.0 | 321.0 | 305.0 | 289.0 |
| | KW | 34.9 | 37.3 | 38.5 | 39.6 | 40.5 | 41.4 | 42.2 | 42.8 | 43.4 | 43.9 | 44.3 |
| | SDT | 94.0 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT | 92.8 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 30 | TC | 525.0 | 490.0 | 472.0 | 454.0 | 436.0 | 419.0 | 401.0 | 384.0 | 366.0 | 349.0 | 331.0 |
| | KW | 36.2 | 39.0 | 40.3 | 41.6 | 42.7 | 43.7 | 44.7 | 45.5 | 46.3 | 47.0 | 47.5 |
| | SDT | 95.0 | 105.0 | 110.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| | SCT | 93.5 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| 35 | TC | 584.0 | 546.0 | 526.0 | 507.0 | 489.0 | 470.0 | 451.0 | 432.0 | 414.0 | 395.0 | 376.0 |
| | KW | 37.5 | 40.6 | 42.1 | 43.5 | 44.8 | 46.0 | 47.2 | 48.2 | 49.2 | 50.0 | 50.7 |
| | SDT | 96.4 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 144.0 | 149.0 |
| | SCT | 94.6 | 104.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 | 149.0 |
| 40 | TC | 645.0 | 604.0 | 584.0 | 563.0 | 543.0 | 523.0 | 503.0 | 483.0 | 463.0 | 444.0 | 424.0 |
| | KW | 38.8 | 42.2 | 43.9 | 45.5 | 47.0 | 48.4 | 49.7 | 50.8 | 52.0 | 53.0 | 54.0 |
| | SDT | 98.1 | 108.0 | 112.0 | 117.0 | 122.0 | 126.0 | 131.0 | 136.0 | 141.0 | 146.0 | 150.0 |
| | SCT | 95.9 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| 45 | TC | 709.0 | 666.0 | 644.0 | 622.0 | 601.0 | 579.0 | 558.0 | 537.0 | 516.0 | 494.0 | 473.0 |
| | KW | 40.0 | 43.9 | 45.8 | 47.5 | 49.1 | 50.7 | 52.2 | 53.5 | 54.9 | 56.1 | 57.2 |
| | SDT | 100.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 142.0 | 147.0 | 152.0 |
| | SCT | 97.5 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 | 141.0 | 146.0 | 151.0 |
| 50 | TC | 776.0 | 730.0 | 707.0 | 684.0 | 661.0 | 638.0 | 616.0 | 593.0 | 570.0 | 548.0 | 525.0 |
| | KW | 41.3 | 45.5 | 47.6 | 49.5 | 51.3 | 53.1 | 54.7 | 56.2 | 57.8 | 59.1 | 60.4 |
| | SDT | 102.0 | 112.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 | 149.0 | 153.0 |
| | SCT | 99.3 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 | 147.0 | 152.0 |

38AH134 MODULE 134B

| SST (F) | | Air Temperature Entering Condenser (F) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 70 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 |
| 20 | TC | 513.0 | 478.0 | 461.0 | 444.0 | 427.0 | 410.0 | 393.0 | 376.0 | 359.0 | 342.0 | 326.0 |
| | KW | 42.4 | 44.9 | 46.1 | 47.1 | 48.0 | 48.9 | 49.6 | 50.2 | 50.8 | 51.3 | 51.6 |
| | SDT | 92.0 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT | 87.6 | 97.7 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 |
| 25 | TC | 575.0 | 538.0 | 520.0 | 502.0 | 483.0 | 465.0 | 447.0 | 428.0 | 410.0 | 392.0 | 374.0 |
| | KW | 44.1 | 47.0 | 48.3 | 49.5 | 50.7 | 51.7 | 52.7 | 53.5 | 54.3 | 54.9 | 55.5 |
| | SDT | 92.7 | 102.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT | 88.6 | 98.5 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 128.0 | 133.0 | 138.0 | 143.0 |
| 30 | TC | 639.0 | 600.0 | 580.0 | 561.0 | 542.0 | 522.0 | 503.0 | 484.0 | 464.0 | 445.0 | 425.0 |
| | KW | 45.8 | 49.1 | 50.6 | 52.0 | 53.4 | 54.6 | 55.7 | 56.7 | 57.7 | 58.6 | 59.3 |
| | SDT | 93.8 | 103.0 | 108.0 | 113.0 | 118.0 | 123.0 | 127.0 | 132.0 | 137.0 | 142.0 | 147.0 |
| | SCT | 90.0 | 99.7 | 105.0 | 109.0 | 114.0 | 119.0 | 124.0 | 129.0 | 134.0 | 139.0 | 144.0 |
| 35 | TC | 706.0 | 665.0 | 644.0 | 623.0 | 603.0 | 582.0 | 562.0 | 541.0 | 520.0 | 500.0 | 479.0 |
| | KW | 47.6 | 51.3 | 53.0 | 54.6 | 56.1 | 57.5 | 58.8 | 60.0 | 61.2 | 62.2 | 63.2 |
| | SDT | 95.4 | 105.0 | 110.0 | 114.0 | 119.0 | 124.0 | 128.0 | 133.0 | 138.0 | 143.0 | 148.0 |
| | SCT | 91.5 | 101.0 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 |
| 40 | TC | 777.0 | 733.0 | 710.0 | 689.0 | 667.0 | 645.0 | 623.0 | 601.0 | 579.0 | 557.0 | 535.0 |
| | KW | 49.4 | 53.5 | 55.4 | 57.2 | 58.9 | 60.5 | 62.0 | 63.4 | 64.7 | 66.0 | 67.1 |
| | SDT | 97.2 | 107.0 | 111.0 | 116.0 | 121.0 | 125.0 | 130.0 | 135.0 | 139.0 | 144.0 | 149.0 |
| | SCT | 93.0 | 103.0 | 107.0 | 112.0 | 117.0 | 122.0 | 127.0 | 131.0 | 136.0 | 141.0 | 145.0 |
| 45 | TC | 852.0 | 804.0 | 781.0 | 757.0 | 734.0 | 710.0 | 687.0 | 663.0 | 640.0 | 617.0 | 593.0 |
| | KW | 51.2 | 55.7 | 57.8 | 59.8 | 61.7 | 63.5 | 65.2 | 66.8 | 68.3 | 69.7 | 71.1 |
| | SDT | 99.2 | 109.0 | 113.0 | 118.0 | 122.0 | 127.0 | 132.0 | 136.0 | 141.0 | 145.0 | 150.0 |
| | SCT | 94.6 | 104.0 | 109.0 | 114.0 | 119.0 | 123.0 | 128.0 | 133.0 | 137.0 | 142.0 | 147.0 |
| 50 | TC | 931.0 | 880.0 | 855.0 | 829.0 | 804.0 | 779.0 | 754.0 | 729.0 | 704.0 | 679.0 | 654.0 |
| | KW | 52.9 | 57.9 | 60.2 | 62.4 | 64.6 | 66.6 | 68.5 | 70.3 | 72.0 | 73.6 | 75.1 |
| | SDT | 101.0 | 111.0 | 115.0 | 120.0 | 124.0 | 129.0 | 134.0 | 138.0 | 143.0 | 147.0 | 152.0 |
| | SCT | 96.3 | 106.0 | 111.0 | 116.0 | 120.0 | 125.0 | 130.0 | 134.0 | 139.0 | 144.0 | 148.0 |

LEGEND

| | | |
|------------|---|--|
| KW | — | Compressor Power |
| SCT | — | Saturated Condensing Temperature (F) |
| SDT | — | Saturated Discharge Temperature (leaving compressor) (F) |
| SST | — | Saturated Suction Temperature (entering condensing unit) |
| TC | — | Total Cooling Capacity, Gross (1000 Btuh) |

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 15 F superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT RATINGS, 50 Hz SI

| 38AH044 | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| SST (C) | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 105.5 | 96.9 | 92.6 | 89.6 | 85.1 | 80.6 | 76.1 | 73.1 | 68.4 | 63.8 | 59.2 |
| | kW | 24.2 | 26.3 | 27.3 | 27.9 | 28.8 | 29.4 | 30.1 | 30.4 | 30.9 | 31.2 | 31.3 |
| | SDT | 33.3 | 39.2 | 42.1 | 44.0 | 46.9 | 49.9 | 52.8 | 54.8 | 57.7 | 60.7 | 63.6 |
| 0 | TC | 114.2 | 105.4 | 100.8 | 97.8 | 93.2 | 88.6 | 83.9 | 80.7 | 75.9 | 71.1 | 66.4 |
| | kW | 24.7 | 27.0 | 28.2 | 28.8 | 29.8 | 30.6 | 31.4 | 31.8 | 32.4 | 32.9 | 33.1 |
| | SDT | 33.7 | 39.5 | 42.4 | 44.3 | 47.2 | 50.2 | 53.0 | 55.0 | 57.9 | 60.9 | 63.7 |
| 2 | TC | 123.6 | 114.3 | 109.6 | 106.5 | 101.7 | 96.9 | 92.1 | 88.8 | 83.9 | 78.9 | 73.9 |
| | kW | 25.1 | 27.7 | 28.9 | 29.7 | 30.8 | 31.8 | 32.6 | 33.1 | 33.8 | 34.4 | 34.9 |
| | SDT | 34.2 | 39.9 | 42.8 | 44.8 | 47.7 | 50.5 | 53.4 | 55.3 | 58.3 | 61.1 | 64.0 |
| 4 | TC | 133.1 | 123.6 | 118.7 | 115.4 | 110.4 | 105.5 | 100.4 | 97.1 | 92.0 | 86.8 | 81.7 |
| | kW | 25.6 | 28.4 | 29.7 | 30.5 | 31.7 | 32.8 | 33.8 | 34.4 | 35.3 | 36.0 | 36.6 |
| | SDT | 34.7 | 40.5 | 43.3 | 45.2 | 48.1 | 51.0 | 53.8 | 55.7 | 58.6 | 61.5 | 64.4 |
| 6 | TC | 143.1 | 133.1 | 128.0 | 124.7 | 119.5 | 114.4 | 109.1 | 105.6 | 100.4 | 95.1 | 89.7 |
| | kW | 26.1 | 29.0 | 30.5 | 31.4 | 32.7 | 33.9 | 35.0 | 35.7 | 36.7 | 37.5 | 38.3 |
| | SDT | 35.3 | 41.0 | 43.9 | 45.7 | 48.6 | 51.4 | 54.3 | 56.2 | 59.0 | 61.9 | 64.8 |
| 8 | TC | 153.5 | 143.1 | 137.9 | 134.3 | 128.9 | 123.6 | 118.2 | 114.5 | 109.1 | 103.5 | 98.0* |
| | kW | 26.6 | 29.7 | 31.2 | 32.2 | 33.6 | 34.9 | 36.1 | 36.9 | 38.0 | 39.0 | 39.9* |
| | SDT | 35.9 | 41.6 | 44.5 | 46.4 | 49.2 | 52.0 | 54.8 | 56.7 | 59.6 | 62.4 | 65.3* |
| 10 | TC | 164.1 | 153.3 | 147.9 | 144.2 | 138.6 | 133.0 | 127.3 | 123.6 | 117.9 | 112.2 | 106.5* |
| | kW | 27.0 | 30.4 | 31.9 | 32.9 | 34.5 | 36.0 | 37.2 | 38.1 | 39.3 | 40.5 | 41.5* |
| | SDT | 36.6 | 42.3 | 45.1 | 47.0 | 49.8 | 52.6 | 55.4 | 57.3 | 60.1 | 62.9 | 65.8* |

| 38AH054 | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| SST (C) | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 123.0 | 113.2 | 108.1 | 104.9 | 100.0 | 95.1 | 90.2 | 87.0 | 82.2 | 77.4 | 72.6* |
| | kW | 29.5 | 32.0 | 33.0 | 33.7 | 34.6 | 35.5 | 36.2 | 36.7 | 37.3 | 37.6 | 38.0* |
| | SDT | 35.7 | 41.6 | 44.5 | 46.5 | 49.5 | 52.4 | 55.4 | 57.4 | 60.3 | 63.3 | 66.3* |
| 0 | TC | 133.3 | 123.0 | 117.8 | 114.3 | 109.1 | 104.0 | 98.9 | 95.6 | 90.4 | 85.4 | 80.4* |
| | kW | 30.2 | 32.9 | 34.2 | 34.9 | 36.0 | 37.0 | 37.8 | 38.3 | 39.1 | 39.6 | 40.1* |
| | SDT | 36.0 | 41.8 | 44.8 | 46.7 | 49.6 | 52.6 | 55.5 | 57.5 | 60.5 | 63.5 | 66.4* |
| 2 | TC | 144.2 | 133.4 | 128.0 | 124.4 | 119.0 | 113.6 | 108.3 | 104.8 | 99.4 | 94.1 | 88.8* |
| | kW | 30.9 | 33.8 | 35.1 | 36.0 | 37.2 | 38.3 | 39.3 | 39.9 | 40.7 | 41.5 | 42.2* |
| | SDT | 36.5 | 42.2 | 45.2 | 47.1 | 50.0 | 52.9 | 55.8 | 57.8 | 60.7 | 63.6 | 66.6* |
| 4 | TC | 155.4 | 144.2 | 138.5 | 134.7 | 129.1 | 123.5 | 117.9 | 114.1 | 108.5 | 103.0 | 97.4* |
| | kW | 31.6 | 34.7 | 36.2 | 37.1 | 38.5 | 39.6 | 40.8 | 41.5 | 42.4 | 43.4 | 44.1* |
| | SDT | 36.5 | 42.7 | 45.5 | 47.5 | 50.3 | 53.3 | 56.1 | 58.1 | 61.0 | 63.9 | 66.9* |
| 6 | TC | 167.0 | 155.3 | 149.4 | 145.5 | 139.6 | 133.8 | 127.9 | 124.0 | 118.1 | 112.3 | 106.5* |
| | kW | 32.5 | 35.7 | 37.2 | 38.3 | 39.7 | 41.0 | 42.3 | 43.0 | 44.2 | 45.1 | 46.1* |
| | SDT | 37.6 | 43.3 | 46.1 | 48.0 | 50.8 | 53.7 | 56.5 | 58.5 | 61.3 | 64.2 | 67.2* |
| 8 | TC | 178.9 | 166.8 | 160.7 | 156.6 | 150.5 | 144.4 | 138.3 | 134.2 | 128.2 | 122.0 | 116.0* |
| | kW | 33.2 | 36.6 | 38.3 | 39.4 | 41.0 | 42.4 | 43.7 | 44.6 | 45.9 | 47.0 | 48.0* |
| | SDT | 38.4 | 44.0 | 46.7 | 48.6 | 51.4 | 54.2 | 57.0 | 59.0 | 61.8 | 64.7 | 67.5* |
| 10 | TC | 191.2 | 179.0 | 172.2 | 168.0 | 161.6 | 155.2 | 148.8 | 144.6 | 138.3 | 132.0* | 125.5* |
| | kW | 33.9 | 37.6 | 39.3 | 40.5 | 42.2 | 43.7 | 45.2 | 46.1 | 47.5 | 48.8* | 50.0* |
| | SDT | 39.2 | 44.7 | 47.4 | 49.3 | 52.0 | 54.8 | 57.6 | 59.5 | 62.3 | 65.2* | 68.0* |

| 38AH064 | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| SST (C) | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 148.5 | 137.2 | 131.7 | 127.9 | 122.4 | 116.9 | 111.4 | 107.8 | 102.3 | 97.0 | 91.6 |
| | kW | 35.7 | 38.6 | 40.0 | 40.8 | 42.0 | 43.1 | 44.0 | 44.6 | 45.4 | 46.0 | 46.5 |
| | SDT | 34.7 | 40.5 | 43.5 | 45.5 | 48.3 | 51.3 | 54.2 | 56.2 | 59.2 | 62.1 | 65.1 |
| 0 | TC | 160.3 | 148.6 | 142.8 | 138.9 | 133.1 | 127.3 | 121.6 | 117.8 | 112.1 | 106.4 | 100.7 |
| | kW | 36.6 | 39.8 | 41.3 | 42.3 | 43.5 | 44.8 | 45.8 | 46.4 | 47.4 | 48.2 | 48.9 |
| | SDT | 35.1 | 40.9 | 43.8 | 45.7 | 48.6 | 51.6 | 54.5 | 56.4 | 59.3 | 62.3 | 65.2 |
| 2 | TC | 172.9 | 160.7 | 154.6 | 150.5 | 144.4 | 138.4 | 132.4 | 128.4 | 122.4 | 116.4 | 110.5 |
| | kW | 37.5 | 41.0 | 42.6 | 43.6 | 45.0 | 46.4 | 47.6 | 48.3 | 49.5 | 50.4 | 51.2 |
| | SDT | 35.7 | 41.5 | 44.3 | 46.3 | 49.1 | 52.0 | 54.9 | 56.9 | 59.8 | 62.7 | 65.6 |
| 4 | TC | 185.8 | 173.1 | 166.6 | 162.4 | 156.1 | 149.8 | 143.4 | 139.2 | 133.0 | 126.7 | 120.5 |
| | kW | 38.4 | 42.2 | 43.9 | 45.0 | 46.6 | 48.1 | 49.4 | 50.2 | 51.5 | 52.6 | 53.5 |
| | SDT | 36.4 | 42.1 | 44.9 | 46.8 | 49.7 | 52.6 | 55.4 | 57.3 | 60.2 | 63.1 | 66.0 |
| 6 | TC | 199.4 | 185.9 | 179.2 | 174.7 | 168.1 | 161.4 | 154.8 | 150.5 | 143.8 | 137.3 | 130.8* |
| | kW | 39.3 | 43.4 | 45.3 | 46.4 | 48.2 | 49.7 | 51.2 | 52.2 | 53.5 | 54.7 | 55.9* |
| | SDT | 37.2 | 42.8 | 45.6 | 47.5 | 50.3 | 53.2 | 56.0 | 57.9 | 60.7 | 63.6 | 66.4* |
| 8 | TC | 213.0 | 198.9 | 192.4 | 187.5 | 180.6 | 173.7 | 166.7 | 162.2 | 155.2 | 148.4 | 141.6* |
| | kW | 40.2 | 44.5 | 46.5 | 47.8 | 49.7 | 51.4 | 53.1 | 54.1 | 55.6 | 57.0 | 58.2* |
| | SDT | 38.0 | 43.6 | 46.4 | 48.2 | 51.1 | 53.9 | 56.7 | 58.5 | 61.4 | 64.2 | 67.0* |
| 10 | TC | 227.0 | 213.0 | 205.8 | 200.3 | 193.7 | 186.0 | 178.9 | 174.0 | 166.8 | 159.6 | 152.5* |
| | kW | 41.1 | 45.7 | 47.9 | 49.3 | 51.3 | 53.2 | 54.9 | 56.0 | 57.6 | 59.1 | 60.5* |
| | SDT | 38.9 | 44.4 | 47.2 | 49.1 | 51.8 | 54.6 | 57.4 | 59.3 | 62.0 | 64.8 | 67.6* |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Total Cooling Capacity, Gross (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT RATINGS, 50 Hz SI (cont)

38AH074

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 181.6 | 169.2 | 163.2 | 159.1 | 153.1 | 147.1 | 141.0 | 137.0 | 131.0 | 125.0 | 118.9 |
| | kW | 45.2 | 48.7 | 50.2 | 51.1 | 52.4 | 53.8 | 54.9 | 55.6 | 56.6 | 57.4 | 58.1 |
| | SDT | 34.1 | 39.8 | 42.8 | 44.7 | 47.6 | 50.5 | 53.5 | 55.4 | 58.4 | 61.3 | 64.3 |
| 0 | TC | 194.7 | 182.1 | 176.1 | 171.9 | 165.6 | 159.3 | 153.0 | 148.8 | 142.5 | 136.2 | 129.8 |
| | kW | 46.5 | 50.2 | 51.9 | 53.0 | 54.5 | 55.9 | 57.2 | 57.9 | 59.1 | 60.1 | 61.0 |
| | SDT | 34.6 | 40.3 | 43.2 | 45.0 | 47.9 | 50.8 | 53.7 | 55.6 | 58.5 | 61.4 | 64.4 |
| 2 | TC | 209.1 | 196.3 | 189.3 | 185.3 | 178.4 | 172.1 | 165.5 | 161.2 | 154.6 | 148.1 | 141.4 |
| | kW | 47.8 | 51.8 | 53.7 | 54.8 | 56.5 | 58.1 | 59.5 | 60.4 | 61.6 | 62.8 | 63.8 |
| | SDT | 35.3 | 41.0 | 43.8 | 45.7 | 48.5 | 51.3 | 54.1 | 56.1 | 58.9 | 61.8 | 64.7 |
| 4 | TC | 224.6 | 210.5 | 203.5 | 199.4 | 192.4 | 185.2 | 178.1 | 173.8 | 166.9 | 160.1 | 153.2 |
| | kW | 49.1 | 53.4 | 55.4 | 56.7 | 58.4 | 60.2 | 61.7 | 62.7 | 64.2 | 65.4 | 66.6 |
| | SDT | 36.0 | 41.6 | 44.4 | 46.3 | 49.1 | 51.9 | 54.7 | 56.6 | 59.4 | 62.2 | 65.1 |
| 6 | TC | 239.0 | 225.1 | 217.9 | 212.8 | 205.6 | 198.3 | 192.1 | 186.9 | 179.6 | 172.5 | 165.3 |
| | kW | 50.4 | 55.0 | 57.2 | 58.5 | 60.5 | 62.4 | 64.0 | 65.1 | 66.7 | 68.1 | 69.5 |
| | SDT | 36.8 | 42.4 | 45.2 | 47.0 | 49.8 | 52.6 | 55.4 | 57.3 | 60.0 | 62.8 | 65.6 |
| 8 | TC | 257.0 | 241.0 | 234.0 | 228.4 | 221.0 | 212.6 | 205.2 | 200.0 | 192.5 | 185.1 | 177.6* |
| | kW | 51.6 | 56.6 | 59.0 | 60.4 | 62.6 | 64.5 | 66.5 | 67.6 | 69.4 | 71.0 | 72.4* |
| | SDT | 37.6 | 43.2 | 45.9 | 47.8 | 50.6 | 53.3 | 56.1 | 57.9 | 60.7 | 63.5 | 66.2* |
| 10 | TC | 273.0 | 257.0 | 248.0 | 243.0 | 236.0 | 227.1 | 219.5 | 214.1 | 206.6 | 198.0 | 190.4* |
| | kW | 52.8 | 58.3 | 60.7 | 62.3 | 64.6 | 66.8 | 68.8 | 70.1 | 71.9 | 73.7 | 75.3* |
| | SDT | 38.5 | 44.0 | 46.8 | 48.6 | 51.4 | 54.1 | 56.9 | 58.7 | 61.5 | 64.2 | 66.9* |

38AH084

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 204.0 | 190.6 | 183.9 | 179.3 | 172.7 | 166.1 | 159.6 | 155.3 | 148.9 | 142.5 | 136.2* |
| | kW | 54.1 | 57.9 | 59.5 | 60.6 | 62.1 | 63.4 | 64.8 | 65.5 | 66.6 | 67.7 | 68.6* |
| | SDT | 36.2 | 42.2 | 45.2 | 47.2 | 50.2 | 53.1 | 56.2 | 58.2 | 61.2 | 64.2 | 67.2* |
| 0 | TC | 221.0 | 206.0 | 198.9 | 194.2 | 187.1 | 180.1 | 173.2 | 168.6 | 161.7 | 154.9 | 148.2* |
| | kW | 55.6 | 59.7 | 61.5 | 62.7 | 64.4 | 65.9 | 67.3 | 68.2 | 69.6 | 70.8 | 71.8* |
| | SDT | 36.3 | 42.3 | 45.3 | 47.3 | 50.3 | 53.2 | 56.2 | 58.2 | 61.2 | 64.2 | 67.2* |
| 2 | TC | 238.0 | 223.0 | 215.0 | 210.0 | 203.0 | 195.3 | 187.9 | 183.1 | 175.7 | 168.5 | 161.3* |
| | kW | 57.0 | 61.5 | 63.5 | 64.9 | 66.7 | 68.3 | 69.9 | 70.9 | 72.4 | 73.8 | 75.0* |
| | SDT | 36.7 | 42.6 | 45.5 | 47.5 | 50.4 | 53.4 | 56.4 | 58.4 | 61.4 | 64.3 | 67.3* |
| 4 | TC | 256.0 | 240.0 | 232.0 | 226.0 | 219.0 | 211.0 | 203.0 | 197.9 | 190.1 | 182.5 | 174.9* |
| | kW | 58.5 | 63.3 | 65.5 | 66.9 | 68.9 | 70.9 | 72.7 | 73.7 | 75.3 | 76.9 | 78.2* |
| | SDT | 37.1 | 42.9 | 45.8 | 47.8 | 50.7 | 53.6 | 56.6 | 58.6 | 61.5 | 63.5 | 67.4* |
| 6 | TC | 274.0 | 258.0 | 250.0 | 244.0 | 236.0 | 227.0 | 219.0 | 214.0 | 205.0 | 197.0 | 189.0* |
| | kW | 60.0 | 65.1 | 67.5 | 69.1 | 71.3 | 73.3 | 75.3 | 76.5 | 78.3 | 79.9 | 81.5* |
| | SDT | 37.7 | 43.4 | 46.3 | 48.2 | 51.1 | 54.1 | 57.0 | 58.9 | 61.9 | 64.8 | 67.7* |
| 8 | TC | 294.0 | 276.0 | 268.0 | 262.0 | 252.0 | 244.0 | 236.0 | 230.0 | 221.0 | 212.0 | 204.0* |
| | kW | 61.6 | 67.1 | 69.7 | 71.3 | 73.7 | 75.9 | 78.0 | 79.3 | 81.3 | 83.1 | 84.8* |
| | SDT | 38.4 | 44.1 | 46.9 | 48.8 | 51.7 | 54.5 | 57.4 | 59.4 | 62.3 | 65.2 | 68.1* |
| 10 | TC | 314.0 | 294.0 | 286.0 | 280.0 | 270.0 | 261.0 | 252.0 | 246.0 | 236.0 | 228.0 | 219.0* |
| | kW | 63.2 | 69.1 | 71.7 | 73.5 | 76.1 | 78.5 | 80.7 | 82.1 | 84.3 | 86.3 | 88.1* |
| | SDT | 39.2 | 44.8 | 47.6 | 49.5 | 52.3 | 55.2 | 58.0 | 59.9 | 62.7 | 65.6 | 68.5* |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Total Cooling Capacity, Gross (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT RATINGS, 50 Hz SI (cont)

| 38AH094 | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|--------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SST (C) | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 233.0 | 216.5 | 209.1 | 202.9 | 195.6 | 187.3 | 178.7 | 173.1 | 164.8 | 156.5 | 148.2 |
| | kW | 58.1 | 62.3 | 64.3 | 65.6 | 67.4 | 68.9 | 70.3 | 71.1 | 72.2 | 73.2 | 73.9 |
| | SDT(A) | 35.5 | 41.2 | 44.0 | 45.9 | 48.8 | 51.6 | 54.5 | 56.5 | 59.4 | 62.3 | 65.3 |
| | SDT(B) | 33.8 | 39.6 | 42.5 | 44.5 | 47.4 | 50.4 | 53.4 | 55.4 | 58.3 | 61.3 | 64.3 |
| | SCT(A) | 33.6 | 39.7 | 42.8 | 44.8 | 47.8 | 50.8 | 53.9 | 55.9 | 58.9 | 61.9 | 64.9 |
| | SCT(B) | 32.3 | 38.5 | 41.5 | 43.6 | 46.7 | 49.7 | 52.8 | 54.8 | 57.9 | 60.9 | 63.9 |
| 0 | TC | 251.0 | 234.0 | 226.0 | 220.2 | 211.7 | 203.3 | 194.8 | 188.5 | 180.0 | 171.4 | 162.7 |
| | kW | 59.7 | 64.3 | 66.6 | 67.9 | 69.9 | 71.7 | 73.3 | 74.2 | 75.6 | 76.7 | 77.7 |
| | SDT(A) | 36.2 | 41.8 | 44.5 | 46.4 | 49.2 | 52.0 | 54.9 | 56.8 | 59.6 | 62.5 | 65.4 |
| | SDT(B) | 34.2 | 39.9 | 42.8 | 44.8 | 47.7 | 50.6 | 53.5 | 55.5 | 58.4 | 61.4 | 64.4 |
| | SCT(A) | 34.0 | 40.1 | 43.1 | 45.1 | 48.1 | 51.1 | 54.1 | 56.0 | 59.0 | 62.0 | 64.9 |
| | SCT(B) | 32.4 | 38.6 | 41.7 | 43.7 | 46.8 | 49.8 | 52.8 | 54.8 | 57.9 | 60.9 | 63.9 |
| 2 | TC | 269.0 | 252.0 | 243.0 | 237.0 | 228.0 | 219.6 | 211.0 | 204.6 | 196.0 | 186.4 | 177.9 |
| | kW | 61.5 | 66.5 | 68.9 | 70.4 | 72.5 | 74.4 | 76.2 | 77.4 | 78.9 | 80.2 | 81.5 |
| | SDT(A) | 37.1 | 42.6 | 45.3 | 47.2 | 49.9 | 52.7 | 55.5 | 57.4 | 60.2 | 63.0 | 65.8 |
| | SDT(B) | 34.9 | 40.5 | 43.4 | 45.3 | 48.2 | 51.0 | 53.9 | 55.9 | 58.8 | 61.7 | 64.6 |
| | SCT(A) | 34.6 | 40.6 | 43.7 | 45.7 | 48.6 | 51.6 | 54.5 | 56.5 | 59.4 | 62.3 | 65.3 |
| | SCT(B) | 32.8 | 39.0 | 42.0 | 44.0 | 47.1 | 50.1 | 53.1 | 55.1 | 58.1 | 61.1 | 64.1 |
| 4 | TC | 289.0 | 270.0 | 261.0 | 255.0 | 246.0 | 237.0 | 227.0 | 221.7 | 211.9 | 202.2 | 193.4 |
| | kW | 63.3 | 68.6 | 71.3 | 72.9 | 75.2 | 77.2 | 79.3 | 80.5 | 82.3 | 83.8 | 85.2 |
| | SDT(A) | 38.0 | 43.5 | 46.2 | 48.0 | 50.7 | 53.4 | 56.2 | 58.0 | 60.8 | 63.5 | 66.3 |
| | SDT(B) | 35.6 | 41.2 | 44.0 | 45.9 | 48.7 | 51.5 | 54.4 | 56.3 | 59.2 | 62.1 | 65.0 |
| | SCT(A) | 35.2 | 41.2 | 44.3 | 46.3 | 49.2 | 52.1 | 55.0 | 57.0 | 59.9 | 62.7 | 65.6 |
| | SCT(B) | 33.3 | 39.4 | 42.4 | 44.4 | 47.4 | 50.4 | 53.4 | 55.4 | 58.4 | 61.3 | 64.3 |
| 6 | TC | 309.0 | 290.0 | 279.0 | 274.0 | 264.0 | 254.0 | 245.0 | 238.0 | 228.0 | 219.2 | 209.3 |
| | kW | 65.1 | 70.8 | 73.6 | 75.4 | 77.9 | 80.2 | 82.4 | 83.7 | 85.6 | 87.5 | 89.1 |
| | SDT(A) | 39.0 | 44.4 | 47.1 | 48.9 | 51.6 | 54.3 | 57.0 | 58.8 | 61.5 | 64.2 | 66.9 |
| | SDT(B) | 36.4 | 41.9 | 44.7 | 46.5 | 49.3 | 52.1 | 55.0 | 56.9 | 59.7 | 62.5 | 65.4 |
| | SCT(A) | 35.8 | 41.9 | 44.9 | 46.9 | 49.9 | 52.8 | 55.7 | 57.6 | 60.5 | 63.3 | 66.2 |
| | SCT(B) | 33.8 | 39.9 | 42.9 | 44.9 | 47.9 | 50.9 | 53.8 | 55.8 | 58.8 | 61.7 | 64.7 |
| 8 | TC | 329.0 | 309.0 | 299.0 | 292.0 | 282.0 | 273.0 | 263.0 | 256.0 | 246.0 | 235.0 | 225.0 |
| | kW | 66.9 | 73.0 | 76.0 | 77.9 | 80.6 | 83.1 | 85.5 | 87.0 | 89.1 | 91.0 | 92.9 |
| | SDT(A) | 40.1 | 45.4 | 48.0 | 49.8 | 52.5 | 55.2 | 57.9 | 59.6 | 62.3 | 65.0 | 67.7* |
| | SDT(B) | 37.3 | 42.7 | 45.5 | 47.3 | 50.1 | 52.9 | 55.7 | 57.5 | 60.3 | 63.1 | 66.0 |
| | SCT(A) | 36.5 | 42.6 | 45.6 | 47.6 | 50.6 | 53.5 | 56.4 | 58.3 | 61.1 | 64.0 | 66.8 |
| | SCT(B) | 34.3 | 40.4 | 43.5 | 45.5 | 48.4 | 51.4 | 54.4 | 56.3 | 59.3 | 62.2 | 65.1 |
| 10 | TC | 350.0 | 329.0 | 319.0 | 312.0 | 301.0 | 291.0 | 281.0 | 274.0 | 263.0 | 253.0 | 242.0 |
| | kW | 68.7 | 75.2 | 78.4 | 80.5 | 83.3 | 86.0 | 88.7 | 90.3 | 92.5 | 94.7 | 96.8 |
| | SDT(A) | 41.1 | 46.4 | 49.1 | 50.8 | 53.5 | 56.2 | 58.8 | 60.5 | 63.2 | 65.9 | 68.5* |
| | SDT(B) | 38.2 | 43.6 | 46.3 | 48.2 | 50.9 | 53.7 | 56.4 | 58.3 | 61.0 | 63.8 | 66.6 |
| | SCT(A) | 37.2 | 43.3 | 46.4 | 48.4 | 51.3 | 54.2 | 57.1 | 59.0 | 61.8 | 64.7 | 67.5* |
| | SCT(B) | 34.9 | 41.0 | 44.1 | 46.1 | 49.0 | 52.0 | 54.9 | 56.9 | 59.8 | 62.7 | 65.6 |

LEGEND

- kW** — Compressor Power
- SCT(A)** — Saturated Condensing Temperature (C) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SCT(B)** — Saturated Condensing Temperature (C) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SDT(A)** — Saturated Discharge Temperature (C) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SDT(B)** — Saturated Discharge Temperature (C) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SST** — Saturated Suction Temperature Entering Condensing Unit
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT RATINGS, 50 Hz SI (cont)

| 38AH104 | | SST (C) | Air Temperature Entering Condenser (C) | | | | | | | | | |
|---------|--------|------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 |
| -2 | TC | 265.0 | 245.0 | 235.0 | 229.0 | 219.0 | 209.3 | 199.6 | 192.4 | 183.1 | 173.6 | 164.2 |
| | kW | 62.8 | 67.7 | 70.1 | 71.6 | 73.6 | 75.5 | 77.2 | 78.3 | 79.7 | 81.0 | 82.1 |
| | SDT(A) | 34.4 | 40.0 | 42.8 | 44.7 | 47.5 | 50.4 | 53.3 | 55.2 | 58.1 | 61.1 | 64.0 |
| | SDT(B) | 35.7 | 41.2 | 43.9 | 45.8 | 48.6 | 51.4 | 54.3 | 56.2 | 59.1 | 61.9 | 64.9 |
| | SCT(A) | 32.6 | 38.6 | 41.7 | 43.7 | 46.7 | 49.7 | 52.7 | 54.6 | 57.7 | 60.7 | 63.7 |
| | SCT(B) | 33.5 | 39.5 | 42.6 | 44.5 | 47.5 | 50.5 | 53.5 | 55.5 | 58.5 | 61.4 | 64.4 |
| 0 | TC | 285.0 | 264.0 | 254.0 | 247.0 | 237.0 | 227.0 | 217.0 | 209.8 | 199.8 | 190.0 | 180.1 |
| | kW | 64.9 | 70.1 | 72.6 | 74.3 | 76.5 | 78.6 | 80.5 | 81.8 | 83.4 | 84.9 | 86.2 |
| | SDT(A) | 35.1 | 40.6 | 43.4 | 45.2 | 48.0 | 50.8 | 53.6 | 55.5 | 58.4 | 61.3 | 64.1 |
| | SDT(B) | 36.5 | 41.9 | 44.7 | 46.5 | 49.2 | 52.0 | 54.8 | 56.7 | 59.5 | 62.3 | 65.2 |
| | SCT(A) | 33.1 | 39.1 | 42.1 | 44.0 | 47.0 | 49.9 | 52.9 | 54.9 | 57.8 | 60.8 | 63.7 |
| | SCT(B) | 34.0 | 40.0 | 43.1 | 45.0 | 48.0 | 50.9 | 53.9 | 55.8 | 58.8 | 61.7 | 64.6 |
| 2 | TC | 307.0 | 285.0 | 273.0 | 267.0 | 256.0 | 246.0 | 235.0 | 228.0 | 217.0 | 207.3 | 197.2 |
| | kW | 66.9 | 72.6 | 75.3 | 77.0 | 79.5 | 81.7 | 84.0 | 85.3 | 87.1 | 88.8 | 90.4 |
| | SDT(A) | 36.0 | 41.4 | 44.1 | 46.0 | 48.7 | 51.5 | 54.3 | 56.1 | 58.9 | 61.7 | 64.6 |
| | SDT(B) | 37.5 | 42.9 | 45.5 | 47.3 | 50.0 | 52.8 | 55.5 | 57.4 | 60.1 | 62.9 | 65.7 |
| | SCT(A) | 33.6 | 39.6 | 42.6 | 44.6 | 47.5 | 50.4 | 53.3 | 55.3 | 58.2 | 61.1 | 64.0 |
| | SCT(B) | 34.7 | 40.7 | 43.7 | 45.7 | 48.6 | 51.5 | 54.4 | 56.4 | 59.3 | 62.2 | 65.1 |
| 4 | TC | 328.0 | 306.0 | 294.0 | 287.0 | 275.0 | 265.0 | 254.0 | 246.0 | 235.0 | 225.0 | 213.4 |
| | kW | 68.9 | 75.0 | 78.0 | 79.8 | 82.5 | 85.0 | 87.3 | 88.8 | 90.9 | 92.8 | 94.5 |
| | SDT(A) | 36.9 | 42.3 | 44.9 | 46.7 | 49.5 | 52.2 | 54.9 | 56.7 | 59.5 | 62.3 | 65.1 |
| | SDT(B) | 38.5 | 43.8 | 46.4 | 48.2 | 50.9 | 53.6 | 56.3 | 58.1 | 60.8 | 63.6 | 66.3 |
| | SCT(A) | 34.2 | 40.2 | 43.2 | 45.1 | 48.1 | 51.0 | 53.9 | 55.8 | 58.7 | 61.5 | 64.4 |
| | SCT(B) | 35.3 | 41.4 | 44.4 | 46.3 | 49.3 | 52.2 | 55.1 | 57.0 | 59.8 | 62.7 | 65.6 |
| 6 | TC | 351.0 | 328.0 | 316.0 | 308.0 | 296.0 | 285.0 | 273.0 | 265.0 | 254.0 | 242.0 | 231.0 |
| | kW | 71.0 | 77.5 | 80.7 | 82.7 | 85.6 | 88.3 | 90.8 | 92.4 | 94.7 | 96.8 | 98.8 |
| | SDT(A) | 37.9 | 43.2 | 45.8 | 47.6 | 50.3 | 53.0 | 55.7 | 57.5 | 60.2 | 63.0 | 65.7 |
| | SDT(B) | 39.6 | 44.8 | 47.4 | 49.2 | 51.8 | 54.5 | 57.2 | 59.0 | 61.7 | 64.4 | 67.1* |
| | SCT(A) | 34.8 | 40.8 | 43.8 | 45.8 | 48.7 | 51.6 | 54.5 | 56.4 | 59.2 | 62.1 | 64.9 |
| | SCT(B) | 36.0 | 42.1 | 45.1 | 47.1 | 50.0 | 52.9 | 55.7 | 57.7 | 60.5 | 63.4 | 66.2 |
| 8 | TC | 375.0 | 351.0 | 338.0 | 330.0 | 317.0 | 305.0 | 294.0 | 285.0 | 273.0 | 261.0 | 250.0 |
| | kW | 73.1 | 80.0 | 83.5 | 85.6 | 88.6 | 91.5 | 94.3 | 96.1 | 98.6 | 100.8 | 103.0 |
| | SDT(A) | 38.9 | 44.1 | 46.8 | 48.6 | 51.2 | 53.9 | 56.6 | 58.4 | 61.0 | 63.7 | 66.4 |
| | SDT(B) | 40.7 | 45.9 | 48.5 | 50.2 | 52.8 | 55.5 | 58.1 | 59.9 | 62.6 | 65.2 | 67.9* |
| | SCT(A) | 35.5 | 41.5 | 44.5 | 46.5 | 49.4 | 52.3 | 55.1 | 57.1 | 59.9 | 62.7 | 65.5 |
| | SCT(B) | 36.7 | 42.8 | 45.8 | 47.8 | 50.7 | 53.6 | 56.5 | 58.4 | 61.2 | 64.1 | 66.9 |
| 10 | TC | 400.0 | 374.0 | 361.0 | 353.0 | 340.0 | 327.0 | 313.0 | 305.0 | 292.0 | 281.0 | 268.0 |
| | kW | 75.4 | 82.6 | 86.3 | 88.5 | 91.7 | 94.9 | 97.8 | 99.7 | 102.4 | 105.0 | 107.4 |
| | SDT(A) | 39.9 | 45.2 | 47.8 | 49.5 | 52.2 | 54.8 | 57.4 | 59.2 | 61.9 | 64.5 | 67.2 |
| | SDT(B) | 41.9 | 47.0 | 49.5 | 51.3 | 53.9 | 56.5 | 59.1 | 60.8 | 63.5 | 66.1 | 68.7* |
| | SCT(A) | 36.2 | 42.2 | 45.2 | 47.2 | 50.1 | 53.0 | 55.8 | 57.8 | 60.6 | 63.4 | 66.2 |
| | SCT(B) | 37.5 | 43.6 | 46.6 | 48.6 | 51.5 | 54.4 | 57.3 | 59.2 | 62.0 | 64.8 | 67.6* |

LEGEND

- kW** — Compressor Power
- SCT(A)** — Saturated Condensing Temperature (C) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SCT(B)** — Saturated Condensing Temperature (C) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SDT(A)** — Saturated Discharge Temperature (C) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SDT(B)** — Saturated Discharge Temperature (C) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SST** — Saturated Suction Temperature Entering Condensing Unit
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT RATINGS, 50 Hz SI (cont)

| 38AH124 | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|---------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SST (C) | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 298.0 | 276.0 | 264.0 | 258.0 | 246.0 | 236.0 | 224.0 | 218.0 | 206.0 | 195.6 | 185.0 |
| | kW | 71.4 | 77.2 | 80.0 | 81.6 | 84.0 | 86.2 | 88.0 | 89.0 | 90.8 | 92.0 | 93.2 |
| | SDT(A) OR (B) | 34.7 | 40.5 | 43.4 | 45.4 | 48.3 | 51.3 | 54.2 | 56.2 | 59.1 | 62.1 | 65.1 |
| | SCT(A) OR (B) | 33.9 | 39.9 | 42.9 | 44.9 | 47.9 | 50.9 | 53.8 | 55.9 | 58.9 | 61.9 | 64.8 |
| 0 | TC | 322.0 | 298.0 | 286.0 | 280.0 | 268.0 | 256.0 | 244.0 | 238.0 | 226.0 | 214.0 | 204.0 |
| | kW | 73.4 | 79.6 | 82.6 | 84.4 | 87.2 | 89.4 | 91.6 | 92.8 | 94.8 | 96.4 | 97.8 |
| | SDT(A) OR (B) | 35.2 | 40.9 | 43.8 | 45.8 | 48.7 | 51.6 | 54.4 | 56.4 | 59.4 | 62.3 | 65.2 |
| | SCT(A) OR (B) | 34.3 | 40.2 | 43.2 | 45.2 | 48.1 | 51.1 | 54.0 | 56.0 | 59.0 | 62.0 | 65.0 |
| 2 | TC | 346.0 | 322.0 | 310.0 | 302.0 | 290.0 | 278.0 | 266.0 | 258.0 | 246.0 | 234.0 | 222.0 |
| | kW | 75.2 | 82.0 | 85.2 | 87.4 | 90.2 | 92.8 | 95.2 | 96.8 | 99.0 | 100.8 | 102.4 |
| | SDT(A) OR (B) | 35.8 | 41.5 | 44.4 | 46.3 | 49.2 | 52.0 | 54.9 | 56.8 | 59.7 | 62.7 | 65.6 |
| | SCT(A) OR (B) | 34.7 | 40.7 | 43.6 | 45.6 | 48.5 | 51.5 | 54.4 | 56.4 | 59.3 | 62.3 | 65.2 |
| 4 | TC | 372.0 | 348.0 | 334.0 | 326.0 | 314.0 | 300.0 | 288.0 | 280.0 | 268.0 | 254.0 | 242.0 |
| | kW | 77.0 | 84.2 | 88.0 | 90.2 | 93.2 | 96.2 | 99.0 | 100.6 | 103.0 | 105.2 | 107.2 |
| | SDT(A) OR (B) | 36.5 | 42.1 | 45.0 | 46.9 | 49.7 | 52.6 | 55.4 | 57.3 | 60.2 | 63.1 | 65.9 |
| | SCT(A) OR (B) | 35.3 | 41.2 | 44.1 | 46.1 | 49.0 | 51.9 | 54.8 | 56.8 | 59.7 | 62.6 | 65.5 |
| 6 | TC | 400.0 | 372.0 | 360.0 | 350.0 | 338.0 | 324.0 | 310.0 | 302.0 | 290.0 | 276.0 | 264.0 |
| | kW | 78.8 | 86.6 | 90.6 | 93.0 | 96.4 | 99.6 | 102.6 | 104.4 | 107.2 | 109.6 | 111.8 |
| | SDT(A) OR (B) | 37.2 | 42.9 | 45.7 | 47.6 | 50.4 | 53.2 | 56.0 | 57.9 | 60.7 | 63.6 | 66.4 |
| | SCT(A) OR (B) | 35.9 | 41.8 | 44.7 | 46.6 | 49.5 | 52.5 | 55.4 | 57.3 | 60.2 | 63.1 | 66.0 |
| 8 | TC | 428.0 | 400.0 | 386.0 | 376.0 | 362.0 | 348.0 | 334.0 | 326.0 | 312.0 | 298.0 | 284.0 |
| | kW | 80.6 | 89.2 | 93.2 | 95.8 | 99.6 | 103.0 | 106.2 | 108.2 | 111.2 | 114.0 | 116.4 |
| | SDT(A) OR (B) | 38.1 | 43.7 | 46.5 | 48.3 | 51.1 | 53.9 | 56.7 | 58.6 | 61.4 | 64.2 | 67.0 |
| | SCT(A) OR (B) | 36.6 | 42.4 | 45.3 | 47.3 | 50.2 | 53.1 | 55.9 | 57.9 | 60.7 | 63.6 | 66.5 |
| 10 | TC | 456.0 | 426.0 | 412.0 | 402.0 | 388.0 | 374.0 | 358.0 | 350.0 | 334.0 | 320.0 | 306.0 |
| | kW | 82.6 | 91.6 | 96.0 | 98.8 | 102.6 | 106.4 | 110.0 | 112.2 | 115.4 | 118.4 | 121.2 |
| | SDT(A) OR (B) | 39.0 | 44.5 | 47.3 | 49.1 | 51.9 | 54.7 | 57.4 | 59.3 | 62.1 | 64.8 | 67.6 |
| | SCT(A) OR (B) | 37.3 | 43.1 | 46.0 | 48.0 | 50.8 | 53.7 | 56.6 | 58.5 | 61.3 | 64.2 | 67.0 |

LEGEND

- kW** — Compressor Power
- SCT(A)** — Saturated Condensing Temperature (C) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SCT(B)** — Saturated Condensing Temperature (C) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SDT(A)** — Saturated Discharge Temperature (C) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SDT(B)** — Saturated Discharge Temperature (C) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SST** — Saturated Suction Temperature Entering Condensing Unit
- TC** — Gross Cooling Capacity (kW)

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT RATINGS, 50 Hz SI (cont)

38AH134

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|--------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 330.0 | 307.0 | 295.0 | 288.0 | 276.0 | 265.0 | 253.0 | 246.0 | 234.0 | 222.8 | 211.5 |
| | kW | 80.9 | 87.2 | 90.1 | 91.9 | 94.5 | 96.9 | 98.9 | 100.1 | 102.0 | 103.4 | 104.8 |
| | SDT(A) | 34.7 | 40.5 | 43.4 | 45.4 | 48.3 | 51.3 | 54.2 | 56.2 | 59.1 | 62.1 | 65.1 |
| | SDT(B) | 34.0 | 39.8 | 42.7 | 44.6 | 47.5 | 50.4 | 53.4 | 55.4 | 58.3 | 61.3 | 64.3 |
| | SCT(A) | 33.9 | 39.9 | 42.9 | 44.9 | 47.9 | 50.9 | 53.8 | 55.9 | 58.9 | 61.9 | 64.8 |
| | SCT(B) | 31.9 | 37.7 | 40.7 | 42.6 | 45.5 | 48.5 | 51.4 | 53.4 | 56.3 | 59.3 | 62.2 |
| 0 | TC | 356.0 | 331.0 | 319.0 | 312.0 | 300.0 | 287.0 | 275.0 | 268.0 | 256.0 | 243.0 | 232.0 |
| | kW | 83.2 | 90.0 | 93.1 | 95.1 | 98.0 | 100.5 | 102.9 | 104.3 | 106.5 | 108.3 | 109.9 |
| | SDT(A) | 35.2 | 40.9 | 43.8 | 45.8 | 48.7 | 51.6 | 54.4 | 56.4 | 59.4 | 62.3 | 65.2 |
| | SDT(B) | 34.5 | 40.2 | 43.1 | 45.0 | 47.8 | 50.7 | 53.6 | 55.5 | 58.4 | 61.4 | 64.3 |
| | SCT(A) | 34.3 | 40.2 | 43.2 | 45.2 | 48.1 | 51.1 | 54.0 | 56.0 | 59.0 | 62.0 | 65.0 |
| | SCT(B) | 32.4 | 38.2 | 41.2 | 43.1 | 46.0 | 48.9 | 51.7 | 53.6 | 56.5 | 59.4 | 62.4 |
| 2 | TC | 383.0 | 357.0 | 345.0 | 336.0 | 324.0 | 311.0 | 299.0 | 290.0 | 278.0 | 265.0 | 253.0 |
| | kW | 85.4 | 92.8 | 96.2 | 98.5 | 101.5 | 104.4 | 107.0 | 108.7 | 111.1 | 113.1 | 114.9 |
| | SDT(A) | 35.8 | 41.5 | 44.4 | 46.3 | 49.2 | 52.0 | 54.9 | 56.8 | 59.7 | 62.7 | 65.6 |
| | SDT(B) | 35.2 | 40.9 | 43.7 | 45.6 | 48.4 | 51.3 | 54.1 | 56.0 | 58.9 | 61.8 | 64.6 |
| | SCT(A) | 34.7 | 40.7 | 43.6 | 45.6 | 48.5 | 51.5 | 54.4 | 56.4 | 59.3 | 62.3 | 65.2 |
| | SCT(B) | 33.0 | 38.8 | 41.7 | 43.7 | 46.5 | 49.4 | 52.3 | 54.2 | 57.0 | 59.9 | 62.7 |
| 4 | TC | 410.0 | 385.0 | 371.0 | 362.0 | 349.0 | 335.0 | 323.0 | 314.0 | 301.0 | 287.0 | 274.0 |
| | kW | 87.5 | 95.5 | 99.4 | 101.7 | 105.1 | 108.2 | 111.2 | 113.0 | 115.6 | 118.0 | 120.1 |
| | SDT(A) | 36.5 | 42.1 | 45.0 | 46.9 | 49.7 | 52.6 | 55.4 | 57.3 | 60.2 | 63.1 | 65.9 |
| | SDT(B) | 36.0 | 41.6 | 44.4 | 46.3 | 49.1 | 51.9 | 54.7 | 56.5 | 59.3 | 62.2 | 65.0 |
| | SCT(A) | 35.3 | 41.2 | 44.1 | 46.1 | 49.0 | 51.9 | 54.8 | 56.8 | 59.7 | 62.6 | 65.5 |
| | SCT(B) | 33.6 | 39.5 | 42.3 | 44.3 | 47.1 | 50.0 | 52.8 | 54.7 | 57.5 | 60.3 | 63.1 |
| 6 | TC | 440.0 | 412.0 | 398.0 | 388.0 | 375.0 | 361.0 | 347.0 | 338.0 | 325.0 | 311.0 | 297.0 |
| | kW | 89.7 | 98.3 | 102.4 | 105.0 | 108.7 | 112.1 | 115.4 | 117.3 | 120.3 | 122.9 | 125.3 |
| | SDT(A) | 37.2 | 42.9 | 45.7 | 47.6 | 50.4 | 53.2 | 56.0 | 57.9 | 60.7 | 63.6 | 66.4 |
| | SDT(B) | 36.7 | 42.3 | 45.1 | 47.0 | 49.8 | 52.6 | 55.3 | 57.2 | 60.0 | 62.8 | 65.5 |
| | SCT(A) | 35.9 | 41.8 | 44.7 | 46.6 | 49.5 | 52.5 | 55.4 | 57.3 | 60.2 | 63.1 | 66.0 |
| | SCT(B) | 34.3 | 40.1 | 43.0 | 44.9 | 47.7 | 50.6 | 53.4 | 55.3 | 58.1 | 60.9 | 63.7 |
| 8 | TC | 470.0 | 441.0 | 426.0 | 416.0 | 402.0 | 387.0 | 373.0 | 364.0 | 349.0 | 335.0 | 320.0 |
| | kW | 91.8 | 101.2 | 105.5 | 108.3 | 112.3 | 116.0 | 119.5 | 121.7 | 124.9 | 127.9 | 130.6 |
| | SDT(A) | 38.1 | 43.7 | 46.5 | 48.3 | 51.1 | 53.9 | 56.7 | 58.6 | 61.4 | 64.2 | 67.0 |
| | SDT(B) | 37.6 | 43.1 | 45.9 | 47.8 | 50.5 | 53.3 | 56.1 | 57.9 | 60.7 | 63.4 | 66.2 |
| | SCT(A) | 36.6 | 42.4 | 45.3 | 47.3 | 50.2 | 53.1 | 55.9 | 57.9 | 60.7 | 63.6 | 66.5 |
| | SCT(B) | 34.9 | 40.7 | 43.6 | 45.5 | 48.4 | 51.2 | 54.0 | 55.9 | 58.7 | 61.5 | 64.2 |
| 10 | TC | 501.0 | 470.0 | 455.0 | 445.0 | 430.0 | 415.0 | 399.0 | 390.0 | 374.0 | 359.0 | 344.0 |
| | kW | 94.1 | 104.0 | 108.7 | 111.6 | 115.9 | 119.9 | 123.8 | 126.1 | 129.6 | 132.9 | 135.9 |
| | SDT(A) | 39.0 | 44.5 | 47.3 | 49.1 | 51.9 | 54.7 | 57.4 | 59.3 | 62.1 | 64.8 | 67.6* |
| | SDT(B) | 38.4 | 44.0 | 46.7 | 48.6 | 51.3 | 54.1 | 56.8 | 58.7 | 61.4 | 64.2 | 66.9 |
| | SCT(A) | 37.3 | 43.1 | 46.0 | 48.0 | 50.8 | 53.7 | 56.6 | 58.5 | 61.3 | 64.2 | 67.0 |
| | SCT(B) | 35.6 | 41.4 | 44.3 | 46.2 | 49.0 | 51.8 | 54.7 | 56.5 | 59.3 | 62.1 | 64.8 |

LEGEND

- kW** — Compressor Power
- SCT(A)** — Saturated Condensing Temperature (C) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SCT(B)** — Saturated Condensing Temperature (C) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SDT(A)** — Saturated Discharge Temperature (C) for Circuit A (38AH094,104), or Module 38AH124A or 134A
- SDT(B)** — Saturated Discharge Temperature (C) for Circuit B (38AH094,104), or Module 38AH124B or 134B
- SST** — Saturated Suction Temperature Entering Condensing Unit
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz SI

38AH044 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|------|------|------|------|------|------|------|------|------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 52.7 | 48.5 | 46.4 | 44.9 | 42.7 | 40.5 | 38.3 | 36.8 | 34.5 | 32.2 | 29.9 |
| | kW | 12.0 | 13.0 | 13.5 | 13.8 | 14.3 | 14.6 | 15.0 | 15.1 | 15.4 | 15.6 | 15.6 |
| | SDT | 32.8 | 38.5 | 41.3 | 43.2 | 46.1 | 49.0 | 51.9 | 53.8 | 56.7 | 59.7 | 62.6 |
| 0 | TC | 56.9 | 52.6 | 50.4 | 48.9 | 46.7 | 44.4 | 42.1 | 40.5 | 38.2 | 35.8 | 33.5 |
| | kW | 12.3 | 13.4 | 14.0 | 14.3 | 14.8 | 15.2 | 15.6 | 15.8 | 16.1 | 16.4 | 16.5 |
| | SDT | 33.4 | 39.0 | 41.8 | 43.7 | 46.5 | 49.4 | 52.2 | 54.2 | 57.0 | 59.9 | 62.7 |
| 2 | TC | 61.4 | 56.9 | 54.6 | 53.1 | 50.8 | 48.4 | 46.1 | 44.5 | 42.1 | 39.6 | 37.2 |
| | kW | 12.5 | 13.8 | 14.4 | 14.8 | 15.3 | 15.8 | 16.2 | 16.5 | 16.8 | 17.1 | 17.4 |
| | SDT | 34.0 | 39.6 | 42.4 | 44.3 | 47.1 | 49.9 | 52.7 | 54.6 | 57.5 | 60.3 | 63.1 |
| 4 | TC | 66.0 | 61.4 | 59.0 | 57.4 | 55.0 | 52.6 | 50.1 | 48.5 | 46.0 | 43.5 | 41.0 |
| | kW | 12.8 | 14.2 | 14.8 | 15.2 | 15.8 | 16.3 | 16.8 | 17.1 | 17.6 | 17.9 | 18.2 |
| | SDT | 34.7 | 40.3 | 43.0 | 44.9 | 47.7 | 50.5 | 53.3 | 55.1 | 57.9 | 60.8 | 63.6 |
| 6 | TC | 70.8 | 66.0 | 63.5 | 61.9 | 59.4 | 56.9 | 54.3 | 52.6 | 50.1 | 47.5 | 44.9 |
| | kW | 13.1 | 14.5 | 15.2 | 15.7 | 16.3 | 16.9 | 17.4 | 17.8 | 18.3 | 18.7 | 19.1 |
| | SDT | 35.5 | 41.0 | 43.8 | 45.6 | 48.4 | 51.1 | 53.9 | 55.8 | 58.5 | 61.3 | 64.1 |
| 8 | TC | 75.8 | 70.8 | 68.3 | 66.5 | 63.9 | 61.3 | 58.7 | 56.9 | 54.3 | 51.6 | 48.9* |
| | kW | 13.4 | 14.9 | 15.6 | 16.1 | 16.8 | 17.4 | 18.0 | 18.4 | 18.9 | 19.4 | 19.9* |
| | SDT | 36.3 | 41.8 | 44.5 | 46.4 | 49.1 | 51.8 | 54.6 | 56.4 | 59.2 | 61.9 | 64.7* |
| 10 | TC | 80.9 | 75.7 | 73.1 | 71.3 | 68.6 | 65.9 | 63.1 | 61.3 | 58.5 | 55.8 | 53.0* |
| | kW | 13.7 | 15.3 | 16.0 | 16.5 | 17.3 | 18.0 | 18.6 | 19.0 | 19.6 | 20.2 | 20.7* |
| | SDT | 37.1 | 42.6 | 45.3 | 47.1 | 49.9 | 52.6 | 55.3 | 57.1 | 59.9 | 62.6 | 65.3* |

38AH054 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|------|------|------|------|------|------|------|------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 53.0 | 48.7 | 46.4 | 44.9 | 42.7 | 40.4 | 38.1 | 36.5 | 34.2 | 31.9 | 29.5* |
| | kW | 12.4 | 13.5 | 13.9 | 14.2 | 14.6 | 15.0 | 15.2 | 15.4 | 15.6 | 15.6 | 15.6* |
| | SDT | 35.0 | 41.0 | 44.0 | 46.0 | 49.0 | 52.0 | 55.0 | 57.0 | 60.0 | 63.0 | 66.0* |
| 0 | TC | 57.6 | 53.1 | 50.8 | 49.2 | 46.8 | 44.5 | 42.1 | 40.5 | 38.0 | 35.6 | 33.2* |
| | kW | 12.6 | 13.8 | 14.4 | 14.7 | 15.2 | 15.6 | 15.9 | 16.1 | 16.4 | 16.5 | 16.6* |
| | SDT | 35.1 | 41.0 | 44.1 | 46.0 | 49.0 | 52.0 | 55.0 | 57.0 | 60.0 | 63.0 | 66.0* |
| 2 | TC | 62.5 | 57.8 | 55.4 | 53.8 | 51.4 | 48.9 | 46.4 | 44.8 | 42.2 | 39.7 | 37.2* |
| | kW | 12.8 | 14.1 | 14.7 | 15.1 | 15.6 | 16.1 | 16.5 | 16.8 | 17.1 | 17.4 | 17.6* |
| | SDT | 35.3 | 41.2 | 44.2 | 46.1 | 49.1 | 52.1 | 55.1 | 57.1 | 60.0 | 63.0 | 66.0* |
| 4 | TC | 67.5 | 62.7 | 60.2 | 58.5 | 56.0 | 53.5 | 50.9 | 49.1 | 46.5 | 43.9 | 41.2* |
| | kW | 13.0 | 14.4 | 15.1 | 15.5 | 16.1 | 16.6 | 17.1 | 17.4 | 17.8 | 18.2 | 18.4* |
| | SDT | 35.6 | 41.4 | 44.3 | 46.3 | 49.2 | 52.2 | 55.1 | 57.1 | 60.1 | 63.1 | 66.1* |
| 6 | TC | 72.6 | 67.7 | 65.1 | 63.4 | 60.8 | 58.2 | 55.5 | 53.7 | 51.0 | 48.3 | 45.5* |
| | kW | 13.3 | 14.7 | 15.4 | 15.9 | 16.5 | 17.1 | 17.7 | 18.0 | 18.5 | 18.9 | 19.3* |
| | SDT | 36.0 | 41.8 | 44.7 | 46.6 | 49.5 | 52.4 | 55.3 | 57.3 | 60.2 | 63.2 | 66.2* |
| 8 | TC | 77.9 | 72.8 | 70.2 | 68.4 | 65.7 | 63.0 | 60.3 | 58.4 | 55.7 | 52.8 | 50.0* |
| | kW | 13.5 | 15.0 | 15.8 | 16.3 | 17.0 | 17.6 | 18.2 | 18.6 | 19.2 | 19.7 | 20.1* |
| | SDT | 36.6 | 42.3 | 45.1 | 47.0 | 49.9 | 52.7 | 55.6 | 57.6 | 60.5 | 63.4 | 66.3* |
| 10 | TC | 83.2 | 78.0 | 75.3 | 73.5 | 70.8 | 68.0 | 65.1 | 63.2 | 60.4 | 57.5* | 54.5* |
| | kW | 13.7 | 15.3 | 16.1 | 16.6 | 17.4 | 18.1 | 18.8 | 19.2 | 19.8 | 20.4* | 20.9* |
| | SDT | 37.3 | 42.8 | 45.6 | 47.5 | 50.3 | 53.2 | 56.0 | 57.9 | 60.8 | 63.7* | 66.5* |

38AH064 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|------|------|------|------|------|------|------|------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 70.7 | 65.0 | 62.3 | 60.4 | 57.7 | 55.1 | 52.5 | 50.8 | 48.2 | 45.8 | 43.3 |
| | kW | 16.7 | 18.1 | 18.8 | 19.2 | 19.8 | 20.3 | 20.8 | 21.1 | 21.5 | 21.9 | 22.2 |
| | SDT | 34.9 | 40.7 | 43.6 | 45.5 | 48.4 | 51.4 | 54.3 | 56.3 | 59.2 | 62.2 | 65.1 |
| 0 | TC | 76.4 | 70.5 | 67.5 | 65.7 | 62.8 | 60.0 | 57.3 | 55.5 | 52.8 | 50.1 | 47.5 |
| | kW | 17.2 | 18.7 | 19.4 | 19.9 | 20.5 | 21.1 | 21.6 | 21.9 | 22.4 | 22.9 | 23.3 |
| | SDT | 35.4 | 41.1 | 44.0 | 45.9 | 48.8 | 51.7 | 54.6 | 56.5 | 59.4 | 62.5 | 65.3 |
| 2 | TC | 82.5 | 76.3 | 73.2 | 71.2 | 68.2 | 65.3 | 62.4 | 60.5 | 57.6 | 54.8 | 52.1 |
| | kW | 17.7 | 19.3 | 20.1 | 20.5 | 21.2 | 21.9 | 22.5 | 22.8 | 23.4 | 23.9 | 24.3 |
| | SDT | 36.1 | 41.7 | 44.6 | 46.5 | 49.3 | 52.2 | 55.1 | 57.0 | 59.9 | 62.8 | 65.7 |
| 4 | TC | 88.8 | 82.3 | 79.0 | 76.9 | 73.8 | 70.7 | 67.6 | 65.6 | 62.6 | 59.6 | 56.7 |
| | kW | 18.1 | 19.9 | 20.7 | 21.2 | 22.0 | 22.7 | 23.3 | 23.7 | 24.4 | 24.9 | 25.4 |
| | SDT | 36.8 | 42.4 | 45.2 | 47.1 | 49.9 | 52.8 | 55.6 | 57.5 | 60.3 | 63.2 | 66.1 |
| 6 | TC | 95.4 | 88.5 | 85.1 | 82.8 | 79.5 | 76.2 | 73.0 | 70.9 | 67.7 | 64.6 | 61.5* |
| | kW | 18.6 | 20.5 | 21.4 | 21.9 | 22.8 | 23.5 | 24.2 | 24.7 | 25.3 | 25.9 | 26.5* |
| | SDT | 37.7 | 43.2 | 46.0 | 47.8 | 50.6 | 53.4 | 56.2 | 58.1 | 60.9 | 63.8 | 66.6* |
| 8 | TC | 102.0 | 94.9 | 91.4 | 89.0 | 85.5 | 82.1 | 78.7 | 76.5 | 73.1 | 69.8 | 66.6* |
| | kW | 19.1 | 21.1 | 22.0 | 22.6 | 23.5 | 24.3 | 25.1 | 25.6 | 26.3 | 27.0 | 27.6* |
| | SDT | 38.6 | 44.1 | 46.8 | 48.6 | 51.4 | 54.2 | 57.0 | 58.8 | 61.6 | 64.4 | 67.2* |
| 10 | TC | 109.0 | 102.0 | 97.8 | 95.3 | 91.7 | 88.0 | 84.5 | 82.1 | 78.6 | 75.1 | 71.7* |
| | kW | 19.6 | 21.7 | 22.7 | 23.4 | 24.3 | 25.2 | 26.0 | 26.5 | 27.3 | 28.0 | 28.7* |
| | SDT | 39.5 | 44.9 | 47.7 | 49.5 | 52.2 | 55.0 | 57.7 | 59.6 | 62.3 | 65.1 | 67.9* |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz SI (cont)

38AH044 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|------|------|------|------|------|------|------|------|------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 52.8 | 48.4 | 46.2 | 44.7 | 42.4 | 40.1 | 37.8 | 36.3 | 33.9 | 31.6 | 29.3 |
| | kW | 12.2 | 13.3 | 13.8 | 14.1 | 14.5 | 14.8 | 15.1 | 15.3 | 15.5 | 15.6 | 15.7 |
| | SDT | 33.8 | 39.8 | 42.8 | 44.8 | 47.7 | 50.7 | 53.7 | 55.7 | 58.7 | 61.6 | 64.6 |
| 0 | TC | 57.3 | 52.8 | 50.4 | 48.9 | 46.5 | 44.2 | 41.8 | 40.2 | 37.7 | 35.3 | 32.9 |
| | kW | 12.4 | 13.6 | 14.2 | 14.5 | 15.0 | 15.4 | 15.8 | 16.0 | 16.3 | 16.5 | 16.6 |
| | SDT | 34.0 | 40.0 | 42.9 | 44.9 | 47.9 | 50.9 | 53.8 | 55.8 | 58.8 | 61.8 | 64.7 |
| 2 | TC | 62.2 | 57.4 | 55.0 | 53.4 | 50.9 | 48.5 | 46.0 | 44.3 | 41.8 | 39.3 | 36.7 |
| | kW | 12.6 | 13.9 | 14.5 | 14.9 | 15.5 | 16.0 | 16.4 | 16.6 | 17.0 | 17.3 | 17.5 |
| | SDT | 34.3 | 40.2 | 43.2 | 45.2 | 48.2 | 51.1 | 54.0 | 56.0 | 59.0 | 61.9 | 64.9 |
| 4 | TC | 67.1 | 62.2 | 59.7 | 58.0 | 55.4 | 52.9 | 50.3 | 48.6 | 46.0 | 43.3 | 40.7 |
| | kW | 12.8 | 14.2 | 14.9 | 15.3 | 15.9 | 16.5 | 17.0 | 17.3 | 17.7 | 18.1 | 18.4 |
| | SDT | 34.7 | 40.6 | 43.5 | 45.5 | 48.4 | 51.4 | 54.3 | 56.3 | 59.2 | 62.2 | 65.1 |
| 6 | TC | 72.3 | 67.1 | 64.5 | 62.8 | 60.1 | 57.5 | 54.8 | 53.0 | 50.3 | 47.6 | 44.8 |
| | kW | 13.0 | 14.5 | 15.3 | 15.7 | 16.4 | 17.0 | 17.6 | 17.9 | 18.4 | 18.8 | 19.2 |
| | SDT | 35.1 | 41.0 | 43.9 | 45.8 | 48.8 | 51.7 | 54.6 | 56.6 | 59.5 | 62.5 | 65.4 |
| 8 | TC | 77.7 | 72.3 | 69.6 | 67.8 | 65.0 | 62.3 | 59.5 | 57.6 | 54.8 | 51.9 | 49.1* |
| | kW | 13.2 | 14.8 | 15.6 | 16.1 | 16.8 | 17.5 | 18.1 | 18.5 | 19.1 | 19.6 | 20.0* |
| | SDT | 35.5 | 41.4 | 44.4 | 46.3 | 49.2 | 52.1 | 55.0 | 57.0 | 59.9 | 62.8 | 65.8* |
| 10 | TC | 83.2 | 77.6 | 74.8 | 72.9 | 70.0 | 67.1 | 64.2 | 62.3 | 59.4 | 56.4 | 53.5* |
| | kW | 13.3 | 15.1 | 15.9 | 16.4 | 17.2 | 18.0 | 18.6 | 19.1 | 19.7 | 20.3 | 20.8* |
| | SDT | 36.0 | 41.9 | 44.8 | 46.8 | 49.7 | 52.6 | 55.5 | 57.4 | 60.3 | 63.2 | 66.1* |

38AH054 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|------|------|------|------|------|------|------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 70.0 | 64.5 | 61.7 | 60.0 | 57.3 | 54.7 | 52.1 | 50.5 | 48.0 | 45.5 | 43.1* |
| | kW | 17.1 | 18.5 | 19.1 | 19.5 | 20.0 | 20.5 | 21.0 | 21.3 | 21.7 | 22.0 | 22.4* |
| | SDT | 36.4 | 42.1 | 45.0 | 47.0 | 49.9 | 52.8 | 55.7 | 57.7 | 60.6 | 63.6 | 66.5* |
| 0 | TC | 75.7 | 69.9 | 67.0 | 65.1 | 62.3 | 59.5 | 56.8 | 55.1 | 52.4 | 49.8 | 47.2* |
| | kW | 17.6 | 19.1 | 19.8 | 20.2 | 20.8 | 21.4 | 21.9 | 22.2 | 22.7 | 23.1 | 23.5* |
| | SDT | 36.9 | 42.6 | 45.5 | 47.4 | 50.2 | 53.1 | 56.0 | 58.0 | 60.9 | 63.9 | 66.8* |
| 2 | TC | 81.7 | 75.6 | 72.6 | 70.6 | 67.6 | 64.7 | 61.9 | 60.0 | 57.2 | 54.4 | 51.6* |
| | kW | 18.1 | 19.7 | 20.4 | 20.9 | 21.6 | 22.2 | 22.8 | 23.1 | 23.6 | 24.1 | 24.6* |
| | SDT | 37.6 | 43.2 | 46.1 | 48.0 | 50.8 | 53.7 | 56.5 | 58.5 | 61.3 | 64.2 | 67.2* |
| 4 | TC | 87.9 | 81.5 | 78.3 | 76.2 | 73.1 | 70.0 | 67.0 | 65.0 | 62.0 | 59.1 | 56.2 |
| | kW | 18.6 | 20.3 | 21.1 | 21.6 | 22.4 | 23.0 | 23.7 | 24.1 | 24.6 | 25.2 | 25.7* |
| | SDT | 38.4 | 43.9 | 46.7 | 48.6 | 51.4 | 54.3 | 57.1 | 59.0 | 61.8 | 64.7 | 67.6* |
| 6 | TC | 94.4 | 87.6 | 84.3 | 82.1 | 78.8 | 75.6 | 72.4 | 70.3 | 67.1 | 64.0 | 61.0* |
| | kW | 19.2 | 21.0 | 21.8 | 22.4 | 23.2 | 23.9 | 24.6 | 25.0 | 25.7 | 26.2 | 26.8* |
| | SDT | 39.2 | 44.7 | 47.5 | 49.3 | 52.1 | 54.9 | 57.7 | 59.6 | 62.4 | 65.2 | 68.1 |
| 8 | TC | 101.0 | 94.0 | 90.5 | 88.2 | 84.8 | 81.4 | 78.0 | 75.8 | 72.5 | 69.2 | 66.0* |
| | kW | 19.7 | 21.6 | 22.5 | 23.1 | 24.0 | 24.8 | 25.5 | 26.0 | 26.7 | 27.3 | 27.9* |
| | SDT | 40.2 | 45.6 | 48.3 | 50.1 | 52.9 | 55.7 | 58.4 | 60.3 | 63.1 | 65.9 | 68.7* |
| 10 | TC | 108.0 | 101.0 | 96.9 | 94.5 | 90.8 | 87.2 | 83.7 | 81.4 | 77.9 | 74.5* | 71.0* |
| | kW | 20.2 | 22.3 | 23.2 | 23.9 | 24.8 | 25.6 | 26.4 | 26.9 | 27.7 | 28.4* | 29.1* |
| | SDT | 41.1 | 46.5 | 49.2 | 51.0 | 53.7 | 56.4 | 59.2 | 61.0 | 63.8 | 66.6* | 69.4* |

38AH064 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|------|------|------|------|------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 77.8 | 72.2 | 69.4 | 67.5 | 64.7 | 61.8 | 58.9 | 57.0 | 54.1 | 51.2 | 48.3 |
| | kW | 19.0 | 20.5 | 21.2 | 21.6 | 22.2 | 22.8 | 23.2 | 23.5 | 23.9 | 24.1 | 24.3 |
| | SDT | 34.5 | 40.3 | 43.3 | 45.3 | 48.2 | 51.2 | 54.1 | 56.1 | 59.1 | 62.0 | 65.0 |
| 0 | TC | 83.9 | 78.1 | 75.2 | 73.2 | 70.3 | 67.3 | 64.3 | 62.3 | 59.3 | 56.3 | 53.2 |
| | kW | 19.4 | 21.1 | 21.9 | 22.4 | 23.0 | 23.7 | 24.2 | 24.5 | 25.0 | 25.3 | 25.6 |
| | SDT | 34.8 | 40.7 | 43.6 | 45.5 | 48.4 | 51.4 | 54.3 | 56.3 | 59.2 | 62.2 | 65.1 |
| 2 | TC | 90.4 | 84.4 | 81.4 | 79.3 | 76.2 | 73.1 | 70.0 | 67.9 | 64.8 | 61.6 | 58.4 |
| | kW | 19.8 | 21.7 | 22.5 | 23.1 | 23.8 | 24.5 | 25.1 | 25.5 | 26.1 | 26.5 | 26.9 |
| | SDT | 35.3 | 41.2 | 44.0 | 46.0 | 48.9 | 51.8 | 54.7 | 56.7 | 59.6 | 62.5 | 65.4 |
| 4 | TC | 97.0 | 90.8 | 87.6 | 85.5 | 82.3 | 79.1 | 75.8 | 73.6 | 70.4 | 67.1 | 63.8 |
| | kW | 20.3 | 22.3 | 23.2 | 23.8 | 24.6 | 25.4 | 26.1 | 26.5 | 27.1 | 27.7 | 28.1 |
| | SDT | 35.9 | 41.7 | 44.6 | 46.5 | 49.4 | 52.3 | 55.2 | 57.1 | 60.0 | 62.9 | 65.8 |
| 6 | TC | 104.0 | 97.4 | 94.1 | 91.9 | 88.6 | 85.2 | 81.8 | 79.6 | 76.1 | 72.7 | 69.3* |
| | kW | 20.7 | 22.9 | 23.9 | 24.5 | 25.4 | 26.2 | 27.0 | 27.5 | 28.2 | 28.8 | 29.4* |
| | SDT | 36.6 | 42.4 | 45.2 | 47.1 | 50.0 | 52.9 | 55.7 | 57.6 | 60.4 | 63.3 | 66.2* |
| 8 | TC | 111.0 | 104.0 | 101.0 | 98.5 | 95.1 | 91.6 | 88.0 | 85.7 | 82.1 | 78.6 | 75.0* |
| | kW | 21.1 | 23.4 | 24.5 | 25.2 | 26.2 | 27.1 | 28.0 | 28.5 | 29.3 | 30.0 | 30.6* |
| | SDT | 37.4 | 43.1 | 45.9 | 47.8 | 50.7 | 53.5 | 56.3 | 58.2 | 61.1 | 63.9 | 66.7* |
| 10 | TC | 118.0 | 111.0 | 108.0 | 105.0 | 102.0 | 98.0 | 94.4 | 91.9 | 88.2 | 84.5 | 80.8* |
| | kW | 21.5 | 24.0 | 25.2 | 25.9 | 27.0 | 28.0 | 28.9 | 29.5 | 30.3 | 31.1 | 31.8* |
| | SDT | 38.2 | 43.9 | 46.7 | 48.6 | 51.4 | 54.2 | 57.0 | 58.9 | 61.7 | 64.5 | 67.3* |

LEGEND

- kW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz SI (cont)

38AH074 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|------|------|------|------|------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 78.6 | 73.2 | 70.5 | 68.6 | 65.8 | 63.0 | 60.1 | 58.2 | 55.3 | 52.4 | 49.5 |
| | kW | 18.8 | 20.4 | 21.1 | 21.5 | 22.1 | 22.7 | 23.1 | 23.4 | 23.8 | 24.1 | 24.3 |
| | SDT | 33.9 | 39.7 | 42.7 | 44.6 | 47.6 | 50.5 | 53.5 | 55.5 | 58.5 | 61.4 | 64.4 |
| 0 | TC | 84.7 | 79.1 | 76.3 | 74.4 | 71.5 | 68.6 | 65.6 | 63.6 | 60.6 | 57.6 | 54.5 |
| | kW | 19.3 | 20.9 | 21.7 | 22.2 | 22.9 | 23.5 | 24.1 | 24.4 | 24.9 | 25.3 | 25.6 |
| | SDT | 34.4 | 40.1 | 43.0 | 44.8 | 47.7 | 50.7 | 53.6 | 55.5 | 58.5 | 61.4 | 64.4 |
| 2 | TC | 91.1 | 85.3 | 82.3 | 80.3 | 77.4 | 74.3 | 71.3 | 69.3 | 66.2 | 63.1 | 59.9 |
| | kW | 19.7 | 21.5 | 22.4 | 22.9 | 23.7 | 24.4 | 25.0 | 25.4 | 25.9 | 26.4 | 26.8 |
| | SDT | 35.0 | 40.7 | 43.5 | 45.4 | 48.2 | 51.1 | 53.9 | 55.9 | 58.7 | 61.6 | 64.6 |
| 4 | TC | 97.6 | 91.5 | 88.5 | 86.4 | 83.4 | 80.2 | 77.1 | 75.0 | 71.8 | 68.6 | 65.4 |
| | kW | 20.2 | 22.1 | 23.0 | 23.6 | 24.4 | 25.2 | 25.9 | 26.3 | 27.0 | 27.5 | 28.0 |
| | SDT | 35.7 | 41.3 | 44.1 | 46.0 | 48.8 | 51.6 | 54.4 | 56.3 | 59.1 | 61.9 | 64.8 |
| 6 | TC | 104.0 | 98.1 | 94.9 | 92.8 | 89.6 | 86.3 | 83.1 | 80.9 | 77.6 | 74.3 | 70.9 |
| | kW | 20.6 | 22.7 | 23.7 | 24.3 | 25.2 | 26.1 | 26.8 | 27.3 | 28.0 | 28.6 | 29.2 |
| | SDT | 36.4 | 42.0 | 44.8 | 46.6 | 49.4 | 52.2 | 55.0 | 56.9 | 59.6 | 62.4 | 65.3 |
| 8 | TC | 112.0 | 105.0 | 102.0 | 99.4 | 96.0 | 92.6 | 89.2 | 87.0 | 83.5 | 80.1 | 76.6* |
| | kW | 21.0 | 23.3 | 24.4 | 25.0 | 26.0 | 26.9 | 27.8 | 28.3 | 29.1 | 29.8 | 30.4* |
| | SDT | 37.2 | 42.7 | 45.5 | 47.4 | 50.2 | 52.9 | 55.7 | 57.5 | 60.3 | 63.0 | 65.8* |
| 10 | TC | 119.0 | 112.0 | 108.0 | 106.0 | 103.0 | 99.1 | 95.5 | 93.1 | 89.6 | 86.0 | 82.4* |
| | kW | 21.4 | 23.9 | 25.0 | 25.7 | 26.8 | 27.8 | 28.7 | 29.3 | 30.1 | 30.9 | 31.6* |
| | SDT | 38.0 | 43.5 | 46.3 | 48.1 | 50.9 | 53.6 | 56.4 | 58.2 | 61.0 | 63.7 | 66.4* |

38AH084 CIRCUIT A

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 102.0 | 95.0 | 91.7 | 89.4 | 86.1 | 82.8 | 79.5 | 77.4 | 74.2 | 71.0 | 67.8* |
| | kW | 27.2 | 29.1 | 29.9 | 30.4 | 31.2 | 31.8 | 32.5 | 32.9 | 33.4 | 33.9 | 34.4* |
| | SDT | 36.7 | 42.7 | 45.7 | 47.7 | 50.7 | 53.6 | 56.7 | 58.7 | 61.7 | 64.7 | 67.7* |
| 0 | TC | 110.0 | 103.0 | 99.2 | 96.8 | 93.3 | 89.8 | 86.3 | 84.0 | 80.6 | 77.2 | 73.8* |
| | kW | 28.0 | 30.0 | 30.9 | 31.5 | 32.3 | 33.1 | 33.8 | 34.2 | 34.9 | 35.5 | 36.0* |
| | SDT | 36.8 | 42.8 | 45.8 | 47.8 | 50.8 | 53.7 | 56.7 | 58.7 | 61.7 | 64.7 | 67.7* |
| 2 | TC | 119.0 | 111.0 | 107.0 | 105.0 | 101.0 | 97.4 | 93.7 | 91.3 | 87.6 | 84.0 | 80.4* |
| | kW | 28.7 | 30.9 | 31.9 | 32.6 | 33.5 | 34.3 | 35.1 | 35.6 | 36.3 | 37.0 | 37.6* |
| | SDT | 37.1 | 43.0 | 46.0 | 48.0 | 50.9 | 53.9 | 56.9 | 58.9 | 61.9 | 64.8 | 67.8* |
| 4 | TC | 128.0 | 120.0 | 116.0 | 113.0 | 109.0 | 105.0 | 101.0 | 98.7 | 94.8 | 91.0 | 87.2* |
| | kW | 29.4 | 31.8 | 32.9 | 33.6 | 34.6 | 35.6 | 36.5 | 37.0 | 37.8 | 38.6 | 39.2* |
| | SDT | 37.5 | 43.3 | 46.2 | 48.2 | 51.2 | 54.1 | 57.1 | 59.1 | 62.0 | 65.0 | 67.9* |
| 6 | TC | 137.0 | 129.0 | 125.0 | 122.0 | 118.0 | 113.0 | 109.0 | 107.0 | 102.0 | 98.3 | 94.3* |
| | kW | 30.2 | 32.7 | 33.9 | 34.7 | 35.8 | 36.8 | 37.8 | 38.4 | 39.3 | 40.1 | 40.9* |
| | SDT | 38.0 | 43.8 | 46.7 | 48.6 | 51.5 | 54.5 | 57.4 | 59.4 | 62.3 | 65.2 | 68.2* |
| 8 | TC | 147.0 | 138.0 | 134.0 | 131.0 | 126.0 | 122.0 | 118.0 | 115.0 | 110.0 | 106.0 | 102.0* |
| | kW | 31.0 | 33.7 | 35.0 | 35.8 | 37.0 | 38.1 | 39.1 | 39.8 | 40.8 | 41.7 | 42.5* |
| | SDT | 38.7 | 44.4 | 47.3 | 49.2 | 52.0 | 54.9 | 57.8 | 59.8 | 62.7 | 65.6 | 68.5* |
| 10 | TC | 157.0 | 147.0 | 143.0 | 140.0 | 135.0 | 130.0 | 126.0 | 123.0 | 118.0 | 114.0* | 109.0* |
| | kW | 31.8 | 34.7 | 36.0 | 36.9 | 38.2 | 39.4 | 40.5 | 41.2 | 42.3 | 43.3* | 44.2* |
| | SDT | 39.5 | 45.1 | 47.9 | 49.8 | 52.6 | 55.5 | 58.3 | 60.3 | 63.1 | 66.0* | 68.9* |

LEGEND

- kW — Compressor Power
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz SI (cont)

38AH074 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 103.0 | 96.0 | 92.7 | 90.5 | 87.3 | 84.1 | 80.9 | 78.8 | 75.7 | 72.6 | 69.4 |
| | KW | 26.4 | 28.3 | 29.1 | 29.6 | 30.4 | 31.1 | 31.8 | 32.2 | 32.8 | 33.3 | 33.8 |
| | SDT | 34.2 | 39.9 | 42.8 | 44.7 | 47.6 | 50.5 | 53.4 | 55.3 | 58.2 | 61.2 | 64.1 |
| 0 | TC | 110.0 | 103.0 | 99.8 | 97.5 | 94.1 | 90.7 | 87.4 | 85.2 | 81.9 | 78.6 | 75.3 |
| | KW | 27.2 | 29.3 | 30.2 | 30.8 | 31.6 | 32.4 | 33.1 | 33.5 | 34.2 | 34.8 | 35.4 |
| | SDT | 34.8 | 40.5 | 43.3 | 45.2 | 48.0 | 50.9 | 53.7 | 55.7 | 58.5 | 61.4 | 64.3 |
| 2 | TC | 118.0 | 111.0 | 107.0 | 105.0 | 101.0 | 97.8 | 94.2 | 91.9 | 88.4 | 85.0 | 81.5 |
| | KW | 28.1 | 30.3 | 31.3 | 31.9 | 32.8 | 33.7 | 34.5 | 35.0 | 35.7 | 36.4 | 37.0 |
| | SDT | 35.6 | 41.2 | 44.0 | 45.9 | 48.7 | 51.5 | 54.3 | 56.2 | 59.1 | 61.9 | 64.8 |
| 4 | TC | 127.0 | 119.0 | 115.0 | 113.0 | 109.0 | 105.0 | 101.0 | 98.8 | 95.1 | 91.5 | 87.8 |
| | KW | 28.9 | 31.3 | 32.4 | 33.1 | 34.0 | 35.0 | 35.8 | 36.4 | 37.2 | 37.9 | 38.6 |
| | SDT | 36.3 | 41.9 | 44.7 | 46.6 | 49.4 | 52.2 | 55.0 | 56.9 | 59.7 | 62.5 | 65.3 |
| 6 | TC | 135.0 | 127.0 | 123.0 | 120.0 | 116.0 | 112.0 | 109.0 | 106.0 | 102.0 | 98.2 | 94.4 |
| | KW | 29.8 | 32.3 | 33.5 | 34.2 | 35.3 | 36.3 | 37.2 | 37.8 | 38.7 | 39.5 | 40.3 |
| | SDT | 37.1 | 42.7 | 45.5 | 47.4 | 50.2 | 52.9 | 55.7 | 57.6 | 60.4 | 63.1 | 65.9 |
| 8 | TC | 145.0 | 136.0 | 132.0 | 129.0 | 125.0 | 120.0 | 116.0 | 113.0 | 109.0 | 105.0 | 101.0* |
| | KW | 30.6 | 33.3 | 34.6 | 35.4 | 36.6 | 37.6 | 38.7 | 39.3 | 40.3 | 41.2 | 42.0* |
| | SDT | 38.0 | 43.6 | 46.3 | 48.2 | 51.0 | 53.7 | 56.5 | 58.3 | 61.1 | 63.9 | 66.6* |
| 10 | TC | 154.0 | 145.0 | 140.0 | 137.0 | 133.0 | 128.0 | 124.0 | 121.0 | 117.0 | 112.0 | 108.0* |
| | KW | 31.4 | 34.4 | 35.7 | 36.6 | 37.8 | 39.0 | 40.1 | 40.8 | 41.8 | 42.8 | 43.7* |
| | SDT | 38.9 | 44.4 | 47.2 | 49.0 | 51.8 | 54.5 | 57.3 | 59.1 | 61.9 | 64.6 | 67.4* |

38AH084 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 102.0 | 95.6 | 92.2 | 89.9 | 86.6 | 83.3 | 80.1 | 77.9 | 74.7 | 71.5 | 68.4* |
| | KW | 26.9 | 28.8 | 29.6 | 30.2 | 30.9 | 31.6 | 32.3 | 32.6 | 33.2 | 33.8 | 34.2* |
| | SDT | 35.7 | 41.6 | 44.6 | 46.6 | 49.6 | 52.6 | 55.6 | 57.6 | 60.6 | 63.6 | 66.6* |
| 0 | TC | 111.0 | 103.0 | 99.7 | 97.4 | 93.8 | 90.3 | 86.9 | 84.6 | 81.1 | 77.7 | 74.4* |
| | KW | 27.6 | 29.7 | 30.6 | 31.2 | 32.1 | 32.8 | 33.5 | 34.0 | 34.7 | 35.3 | 35.8* |
| | SDT | 35.8 | 41.8 | 44.7 | 46.7 | 49.7 | 52.7 | 55.6 | 57.6 | 60.6 | 63.6 | 66.6* |
| 2 | TC | 119.0 | 112.0 | 108.0 | 105.0 | 102.0 | 97.9 | 94.2 | 91.8 | 88.1 | 84.5 | 80.8* |
| | KW | 28.3 | 30.6 | 31.6 | 32.3 | 33.2 | 34.0 | 34.8 | 35.3 | 36.1 | 36.8 | 37.4* |
| | SDT | 36.2 | 42.1 | 45.0 | 47.0 | 49.9 | 52.9 | 55.8 | 57.8 | 60.8 | 63.7 | 66.7* |
| 4 | TC | 128.0 | 120.0 | 116.0 | 113.0 | 110.0 | 106.0 | 102.0 | 99.2 | 95.3 | 91.5 | 87.7* |
| | KW | 29.1 | 31.5 | 32.6 | 33.3 | 34.3 | 35.3 | 36.2 | 36.7 | 37.5 | 38.3 | 39.0* |
| | SDT | 36.7 | 42.5 | 45.4 | 47.3 | 50.2 | 53.1 | 56.1 | 58.1 | 61.0 | 63.9 | 66.9* |
| 6 | TC | 137.0 | 129.0 | 125.0 | 122.0 | 118.0 | 114.0 | 110.0 | 107.0 | 103.0 | 98.7 | 94.7* |
| | KW | 29.8 | 32.4 | 33.6 | 34.4 | 35.5 | 36.5 | 37.5 | 38.1 | 39.0 | 39.8 | 40.6* |
| | SDT | 37.3 | 43.0 | 45.9 | 47.8 | 50.7 | 53.6 | 56.5 | 58.4 | 61.4 | 64.3 | 67.2* |
| 8 | TC | 147.0 | 138.0 | 134.0 | 131.0 | 126.0 | 122.0 | 118.0 | 115.0 | 111.0 | 106.0 | 102.0* |
| | KW | 30.6 | 33.4 | 34.7 | 35.5 | 36.7 | 37.8 | 38.9 | 39.5 | 40.5 | 41.4 | 42.3* |
| | SDT | 38.1 | 43.7 | 46.5 | 48.4 | 51.3 | 54.1 | 57.0 | 58.9 | 61.8 | 64.7 | 67.6* |
| 10 | TC | 157.0 | 147.0 | 143.0 | 140.0 | 135.0 | 131.0 | 126.0 | 123.0 | 118.0 | 114.0 | 110.0* |
| | KW | 31.4 | 34.4 | 35.7 | 36.6 | 37.9 | 39.1 | 40.2 | 40.9 | 42.0 | 43.0 | 43.9* |
| | SDT | 38.9 | 44.5 | 47.3 | 49.1 | 51.9 | 54.8 | 57.6 | 59.5 | 62.3 | 65.2 | 68.1* |

LEGEND

- KW** — Compressor Power
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz SI (cont)

| 38AH094 CIRCUIT A | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|-------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SST (C) | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 130.0 | 120.0 | 116.0 | 112.0 | 108.0 | 103.0 | 97.6 | 94.2 | 89.1 | 84.0 | 78.8 |
| | KW | 31.8 | 34.2 | 35.3 | 36.0 | 37.0 | 37.8 | 38.5 | 38.9 | 39.4 | 39.8 | 40.0 |
| | SDT | 35.5 | 41.2 | 44.0 | 45.9 | 48.8 | 51.6 | 54.5 | 56.5 | 59.4 | 62.3 | 65.3 |
| | SCT | 33.6 | 39.7 | 42.8 | 44.8 | 47.8 | 50.8 | 53.9 | 55.9 | 58.9 | 61.9 | 64.9 |
| 0 | TC | 140.0 | 130.0 | 125.0 | 122.0 | 117.0 | 112.0 | 107.0 | 103.0 | 97.9 | 92.6 | 87.3 |
| | KW | 32.7 | 35.3 | 36.6 | 37.3 | 38.4 | 39.4 | 40.2 | 40.7 | 41.4 | 41.9 | 42.3 |
| | SDT | 36.2 | 41.8 | 44.5 | 46.4 | 49.2 | 52.0 | 54.9 | 56.8 | 59.6 | 62.5 | 65.4 |
| | SCT | 34.0 | 40.1 | 43.1 | 45.1 | 48.1 | 51.1 | 54.1 | 56.0 | 59.0 | 62.0 | 64.9 |
| 2 | TC | 150.0 | 140.0 | 135.0 | 131.0 | 126.0 | 121.0 | 116.0 | 112.0 | 107.0 | 101.0 | 96.0 |
| | KW | 33.7 | 36.5 | 37.9 | 38.7 | 39.9 | 40.9 | 41.9 | 42.5 | 43.3 | 43.9 | 44.5 |
| | SDT | 37.1 | 42.6 | 45.3 | 47.2 | 49.9 | 52.7 | 55.5 | 57.4 | 60.2 | 63.0 | 65.8 |
| | SCT | 34.6 | 40.6 | 43.7 | 45.7 | 48.6 | 51.6 | 54.5 | 56.5 | 59.4 | 62.3 | 65.3 |
| 4 | TC | 161.0 | 150.0 | 145.0 | 141.0 | 136.0 | 131.0 | 125.0 | 122.0 | 116.0 | 110.0 | 105.0 |
| | KW | 34.7 | 37.7 | 39.2 | 40.1 | 41.4 | 42.5 | 43.6 | 44.3 | 45.2 | 46.0 | 46.7 |
| | SDT | 38.0 | 43.5 | 46.2 | 48.0 | 50.7 | 53.4 | 56.2 | 58.0 | 60.8 | 63.5 | 66.3 |
| | SCT | 35.2 | 41.2 | 44.3 | 46.3 | 49.2 | 52.1 | 55.0 | 57.0 | 59.9 | 62.7 | 65.6 |
| 6 | TC | 172.0 | 161.0 | 155.0 | 152.0 | 146.0 | 140.0 | 135.0 | 131.0 | 125.0 | 120.0 | 114.0 |
| | KW | 35.7 | 38.9 | 40.5 | 41.5 | 42.9 | 44.2 | 45.4 | 46.1 | 47.1 | 48.1 | 48.9 |
| | SDT | 39.0 | 44.4 | 47.1 | 48.9 | 51.6 | 54.3 | 57.0 | 58.8 | 61.5 | 64.2 | 66.9 |
| | SCT | 35.8 | 41.9 | 44.9 | 46.9 | 49.9 | 52.8 | 55.7 | 57.6 | 60.5 | 63.3 | 66.2 |
| 8 | TC | 183.0 | 172.0 | 166.0 | 162.0 | 156.0 | 151.0 | 145.0 | 141.0 | 135.0 | 129.0 | 123.0 |
| | KW | 36.7 | 40.1 | 41.8 | 42.9 | 44.4 | 45.8 | 47.1 | 47.9 | 49.1 | 50.1 | 51.1 |
| | SDT | 40.1 | 45.4 | 48.0 | 49.8 | 52.5 | 55.2 | 57.9 | 59.6 | 62.3 | 65.0 | 67.7 |
| | SCT | 36.5 | 42.6 | 45.6 | 47.6 | 50.6 | 53.5 | 56.4 | 58.3 | 61.1 | 64.0 | 66.8 |
| 10 | TC | 195.0 | 183.0 | 177.0 | 173.0 | 167.0 | 161.0 | 155.0 | 151.0 | 145.0 | 139.0 | 132.0 |
| | KW | 37.7 | 41.3 | 43.1 | 44.3 | 45.9 | 47.4 | 48.9 | 49.8 | 51.0 | 52.2 | 53.3 |
| | SDT | 41.1 | 46.4 | 49.1 | 50.8 | 53.5 | 56.2 | 58.8 | 60.5 | 63.2 | 65.9 | 68.5* |
| | SCT | 37.2 | 43.3 | 46.4 | 48.4 | 51.3 | 54.2 | 57.1 | 59.0 | 61.8 | 64.7 | 67.5 |

| 38AH104 CIRCUIT A | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|-------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SST (C) | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 124.0 | 115.0 | 110.0 | 107.0 | 102.0 | 97.3 | 92.6 | 89.4 | 84.7 | 80.0 | 75.3 |
| | KW | 28.9 | 31.2 | 32.4 | 33.1 | 34.0 | 34.9 | 35.7 | 36.2 | 36.8 | 37.3 | 37.7 |
| | SDT | 34.4 | 40.0 | 42.8 | 44.7 | 47.5 | 50.4 | 53.3 | 55.2 | 58.1 | 61.1 | 64.0 |
| | SCT | 32.6 | 38.6 | 41.7 | 43.7 | 46.7 | 49.7 | 52.7 | 54.6 | 57.7 | 60.7 | 63.7 |
| 0 | TC | 134.0 | 124.0 | 119.0 | 116.0 | 111.0 | 106.0 | 101.0 | 97.8 | 92.8 | 88.0 | 83.1 |
| | KW | 29.8 | 32.3 | 33.5 | 34.3 | 35.3 | 36.3 | 37.2 | 37.8 | 38.5 | 39.2 | 39.7 |
| | SDT | 35.1 | 40.6 | 43.4 | 45.2 | 48.0 | 50.8 | 53.6 | 55.5 | 58.4 | 61.3 | 64.1 |
| | SCT | 33.1 | 39.1 | 42.1 | 44.0 | 47.0 | 49.9 | 52.9 | 54.9 | 57.8 | 60.8 | 63.7 |
| 2 | TC | 144.0 | 134.0 | 128.0 | 125.0 | 120.0 | 115.0 | 110.0 | 106.0 | 101.0 | 96.3 | 91.2 |
| | KW | 30.7 | 33.4 | 34.7 | 35.5 | 36.7 | 37.7 | 38.8 | 39.4 | 40.2 | 41.0 | 41.7 |
| | SDT | 36.0 | 41.4 | 44.1 | 46.0 | 48.7 | 51.5 | 54.3 | 56.1 | 58.9 | 61.7 | 64.6 |
| | SCT | 33.6 | 39.6 | 42.6 | 44.6 | 47.5 | 50.4 | 53.3 | 55.3 | 58.2 | 61.1 | 64.0 |
| 4 | TC | 154.0 | 144.0 | 138.0 | 135.0 | 129.0 | 124.0 | 119.0 | 115.0 | 110.0 | 105.0 | 99.4 |
| | KW | 31.5 | 34.4 | 35.9 | 36.7 | 38.0 | 39.2 | 40.3 | 41.0 | 42.0 | 42.8 | 43.6 |
| | SDT | 36.9 | 42.3 | 44.9 | 46.7 | 49.5 | 52.2 | 54.9 | 56.7 | 59.5 | 62.3 | 65.1 |
| | SCT | 34.2 | 40.2 | 43.2 | 45.1 | 48.1 | 51.0 | 53.9 | 55.8 | 58.7 | 61.5 | 64.4 |
| 6 | TC | 165.0 | 154.0 | 148.0 | 145.0 | 139.0 | 134.0 | 128.0 | 124.0 | 119.0 | 113.0 | 108.0 |
| | KW | 32.4 | 35.5 | 37.1 | 38.0 | 39.4 | 40.7 | 41.9 | 42.6 | 43.7 | 44.7 | 45.6 |
| | SDT | 37.9 | 43.2 | 45.8 | 47.6 | 50.3 | 53.0 | 55.7 | 57.5 | 60.2 | 63.0 | 65.7 |
| | SCT | 34.8 | 40.8 | 43.8 | 45.8 | 48.7 | 51.6 | 54.5 | 56.4 | 59.2 | 62.1 | 64.9 |
| 8 | TC | 176.0 | 165.0 | 159.0 | 155.0 | 149.0 | 143.0 | 138.0 | 134.0 | 128.0 | 122.0 | 117.0 |
| | KW | 33.3 | 36.6 | 38.3 | 39.3 | 40.7 | 42.1 | 43.4 | 44.3 | 45.5 | 46.5 | 47.5 |
| | SDT | 38.9 | 44.1 | 46.8 | 48.6 | 51.2 | 53.9 | 56.6 | 58.4 | 61.0 | 63.7 | 66.4 |
| | SCT | 35.5 | 41.5 | 44.5 | 46.5 | 49.4 | 52.3 | 55.1 | 57.1 | 59.9 | 62.7 | 65.5 |
| 10 | TC | 188.0 | 176.0 | 170.0 | 166.0 | 160.0 | 154.0 | 147.0 | 143.0 | 137.0 | 132.0 | 126.0 |
| | KW | 34.3 | 37.7 | 39.5 | 40.6 | 42.1 | 43.6 | 45.0 | 45.9 | 47.2 | 48.4 | 49.5 |
| | SDT | 39.9 | 45.2 | 47.8 | 49.5 | 52.2 | 54.8 | 57.4 | 59.2 | 61.9 | 64.5 | 67.2 |
| | SCT | 36.2 | 42.2 | 45.2 | 47.2 | 50.1 | 53.0 | 55.8 | 57.8 | 60.6 | 63.4 | 66.2 |

LEGEND

- KW** — Compressor Power
- SCT** — Saturated Condensing Temperature (C)
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz SI (cont)

38AH094 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 103.0 | 96.5 | 93.1 | 90.9 | 87.6 | 84.3 | 81.1 | 78.9 | 75.7 | 72.5 | 69.4 |
| | kW | 26.3 | 28.1 | 29.0 | 29.6 | 30.4 | 31.1 | 31.8 | 32.2 | 32.8 | 33.4 | 33.9 |
| | SDT | 33.8 | 39.6 | 42.5 | 44.5 | 47.4 | 50.4 | 53.4 | 55.4 | 58.3 | 61.3 | 64.3 |
| | SCT | 32.3 | 38.5 | 41.5 | 43.6 | 46.7 | 49.7 | 52.8 | 54.8 | 57.9 | 60.9 | 63.9 |
| 0 | TC | 111.0 | 104.0 | 101.0 | 98.2 | 94.7 | 91.3 | 87.8 | 85.5 | 82.1 | 78.8 | 75.4 |
| | kW | 27.0 | 29.0 | 30.0 | 30.6 | 31.5 | 32.3 | 33.1 | 33.5 | 34.2 | 34.8 | 35.4 |
| | SDT | 34.2 | 39.9 | 42.8 | 44.8 | 47.7 | 50.6 | 53.5 | 55.5 | 58.4 | 61.4 | 64.4 |
| | SCT | 32.4 | 38.6 | 41.7 | 43.7 | 46.8 | 49.8 | 52.8 | 54.8 | 57.9 | 60.9 | 63.9 |
| 2 | TC | 119.0 | 112.0 | 108.0 | 106.0 | 102.0 | 98.6 | 95.0 | 92.6 | 89.0 | 85.4 | 81.9 |
| | kW | 27.8 | 30.0 | 31.0 | 31.7 | 32.6 | 33.5 | 34.3 | 34.9 | 35.6 | 36.3 | 37.0 |
| | SDT | 34.9 | 40.5 | 43.4 | 45.3 | 48.2 | 51.0 | 53.9 | 55.9 | 58.8 | 61.7 | 64.6 |
| | SCT | 32.8 | 39.0 | 42.0 | 44.0 | 47.1 | 50.1 | 53.1 | 55.1 | 58.1 | 61.1 | 64.1 |
| 4 | TC | 128.0 | 120.0 | 116.0 | 114.0 | 110.0 | 106.0 | 102.0 | 99.7 | 95.9 | 92.2 | 88.4 |
| | kW | 28.6 | 30.9 | 32.1 | 32.8 | 33.8 | 34.7 | 35.7 | 36.2 | 37.1 | 37.8 | 38.5 |
| | SDT | 35.6 | 41.2 | 44.0 | 45.9 | 48.7 | 51.5 | 54.4 | 56.3 | 59.2 | 62.1 | 65.0 |
| | SCT | 33.3 | 39.4 | 42.4 | 44.4 | 47.4 | 50.4 | 53.4 | 55.4 | 58.4 | 61.3 | 64.3 |
| 6 | TC | 137.0 | 129.0 | 124.0 | 122.0 | 118.0 | 114.0 | 110.0 | 107.0 | 103.0 | 99.2 | 95.3 |
| | kW | 29.4 | 31.9 | 33.1 | 33.9 | 35.0 | 36.0 | 37.0 | 37.6 | 38.5 | 39.4 | 40.2 |
| | SDT | 36.4 | 41.9 | 44.7 | 46.5 | 49.3 | 52.1 | 55.0 | 56.9 | 59.7 | 62.5 | 65.4 |
| | SCT | 33.8 | 39.9 | 42.9 | 44.9 | 47.9 | 50.9 | 53.8 | 55.8 | 58.8 | 61.7 | 64.7 |
| 8 | TC | 146.0 | 137.0 | 133.0 | 130.0 | 126.0 | 122.0 | 118.0 | 115.0 | 111.0 | 106.0 | 102.0 |
| | kW | 30.2 | 32.9 | 34.2 | 35.0 | 36.2 | 37.3 | 38.4 | 39.1 | 40.0 | 40.9 | 41.8 |
| | SDT | 37.3 | 42.7 | 45.5 | 47.3 | 50.1 | 52.9 | 55.7 | 57.5 | 60.3 | 63.1 | 66.0 |
| | SCT | 34.3 | 40.4 | 43.5 | 45.5 | 48.4 | 51.4 | 54.4 | 56.3 | 59.3 | 62.2 | 65.1 |
| 10 | TC | 155.0 | 146.0 | 142.0 | 139.0 | 134.0 | 130.0 | 126.0 | 123.0 | 118.0 | 114.0 | 110.0 |
| | kW | 31.0 | 33.9 | 35.3 | 36.2 | 37.4 | 38.6 | 39.8 | 40.5 | 41.5 | 42.5 | 43.5 |
| | SDT | 38.2 | 43.6 | 46.3 | 48.2 | 50.9 | 53.7 | 56.4 | 58.3 | 61.0 | 63.8 | 66.6 |
| | SCT | 34.9 | 41.0 | 44.1 | 46.1 | 49.0 | 52.0 | 54.9 | 56.9 | 59.8 | 62.7 | 65.6 |

38AH104 CIRCUIT B

| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
|---------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 141.0 | 130.0 | 125.0 | 122.0 | 117.0 | 112.0 | 107.0 | 103.0 | 98.4 | 93.6 | 88.9 |
| | kW | 33.9 | 36.5 | 37.7 | 38.5 | 39.6 | 40.6 | 41.5 | 42.1 | 42.9 | 43.7 | 44.4 |
| | SDT | 35.7 | 41.2 | 43.9 | 45.8 | 48.6 | 51.4 | 54.3 | 56.2 | 59.1 | 61.9 | 64.9 |
| | SCT | 33.5 | 39.5 | 42.6 | 44.5 | 47.5 | 50.5 | 53.5 | 55.5 | 58.5 | 61.4 | 64.4 |
| 0 | TC | 151.0 | 140.0 | 135.0 | 131.0 | 126.0 | 121.0 | 116.0 | 112.0 | 107.0 | 102.0 | 97.0 |
| | kW | 35.1 | 37.8 | 39.1 | 40.0 | 41.2 | 42.3 | 43.3 | 44.0 | 44.9 | 45.7 | 46.5 |
| | SDT | 36.5 | 41.9 | 44.7 | 46.5 | 49.2 | 52.0 | 54.8 | 56.7 | 59.5 | 62.3 | 65.2 |
| | SCT | 34.0 | 40.0 | 43.1 | 45.0 | 48.0 | 50.9 | 53.9 | 55.8 | 58.8 | 61.7 | 64.6 |
| 2 | TC | 163.0 | 151.0 | 145.0 | 142.0 | 136.0 | 131.0 | 125.0 | 122.0 | 116.0 | 111.0 | 106.0 |
| | kW | 36.2 | 39.2 | 40.6 | 41.5 | 42.8 | 44.0 | 45.2 | 45.9 | 46.9 | 47.8 | 48.7 |
| | SDT | 37.5 | 42.9 | 45.5 | 47.3 | 50.0 | 52.8 | 55.5 | 57.4 | 60.1 | 62.9 | 65.7 |
| | SCT | 34.7 | 40.7 | 43.7 | 45.7 | 48.6 | 51.5 | 54.4 | 56.4 | 59.3 | 62.2 | 65.1 |
| 4 | TC | 174.0 | 162.0 | 156.0 | 152.0 | 146.0 | 141.0 | 135.0 | 131.0 | 125.0 | 120.0 | 114.0 |
| | kW | 37.4 | 40.6 | 42.1 | 43.1 | 44.5 | 45.8 | 47.0 | 47.8 | 48.9 | 50.0 | 50.9 |
| | SDT | 38.5 | 43.8 | 46.4 | 48.2 | 50.9 | 53.6 | 56.3 | 58.1 | 60.8 | 63.6 | 66.3 |
| | SCT | 35.3 | 41.4 | 44.4 | 46.3 | 49.3 | 52.2 | 55.1 | 57.0 | 59.8 | 62.7 | 65.6 |
| 6 | TC | 186.0 | 174.0 | 168.0 | 163.0 | 157.0 | 151.0 | 145.0 | 141.0 | 135.0 | 129.0 | 123.0 |
| | kW | 38.6 | 42.0 | 43.6 | 44.7 | 46.2 | 47.6 | 48.9 | 49.8 | 51.0 | 52.1 | 53.2 |
| | SDT | 39.6 | 44.8 | 47.4 | 49.2 | 51.8 | 54.5 | 57.2 | 59.0 | 61.7 | 64.4 | 67.1 |
| | SCT | 36.0 | 42.1 | 45.1 | 47.1 | 50.0 | 52.9 | 55.7 | 57.7 | 60.5 | 63.4 | 66.2 |
| 8 | TC | 199.0 | 186.0 | 179.0 | 175.0 | 168.0 | 162.0 | 156.0 | 151.0 | 145.0 | 139.0 | 133.0 |
| | kW | 39.8 | 43.4 | 45.2 | 46.3 | 47.9 | 49.4 | 50.9 | 51.8 | 53.1 | 54.3 | 55.5 |
| | SDT | 40.7 | 45.9 | 48.5 | 50.2 | 52.8 | 55.5 | 58.1 | 59.9 | 62.6 | 65.2 | 67.9 |
| | SCT | 36.7 | 42.8 | 45.8 | 47.8 | 50.7 | 53.6 | 56.5 | 58.4 | 61.2 | 64.1 | 66.9 |
| 10 | TC | 212.0 | 198.0 | 191.0 | 187.0 | 180.0 | 173.0 | 166.0 | 162.0 | 155.0 | 149.0 | 142.0 |
| | kW | 41.1 | 44.9 | 46.8 | 47.9 | 49.6 | 51.3 | 52.8 | 53.8 | 55.2 | 56.6 | 57.9 |
| | SDT | 41.9 | 47.0 | 49.5 | 51.3 | 53.9 | 56.5 | 59.1 | 60.8 | 63.5 | 66.1 | 68.7* |
| | SCT | 37.5 | 43.6 | 46.6 | 48.6 | 51.5 | 54.4 | 57.3 | 59.2 | 62.0 | 64.8 | 67.6 |

LEGEND

- kW — Compressor Power
- SCT — Saturated Condensing Temperature (C)
- SDT — Saturated Discharge Temperature (leaving compressor) (C)
- SST — Saturated Suction Temperature (entering condensing unit)
- TC — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Performance data (cont)



CONDENSING UNIT CIRCUIT AND MODULE RATINGS, 50 Hz SI (cont)

| 38AH124 MODULE 124A OR 124B; 38AH134 MODULE 134A | | | | | | | | | | | | |
|--|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 149.0 | 138.0 | 132.0 | 129.0 | 123.0 | 118.0 | 112.0 | 109.0 | 103.0 | 97.8 | 92.5 |
| | KW | 35.7 | 38.6 | 40.0 | 40.8 | 42.0 | 43.1 | 44.0 | 44.5 | 45.4 | 46.0 | 46.6 |
| | SDT | 34.7 | 40.5 | 43.4 | 45.4 | 48.3 | 51.3 | 54.2 | 56.2 | 59.1 | 62.1 | 65.1 |
| | SCT | 33.9 | 39.9 | 42.9 | 44.9 | 47.9 | 50.9 | 53.8 | 55.9 | 58.9 | 61.9 | 64.8 |
| 0 | TC | 161.0 | 149.0 | 143.0 | 140.0 | 134.0 | 128.0 | 122.0 | 119.0 | 113.0 | 107.0 | 102.0 |
| | KW | 36.7 | 39.8 | 41.3 | 42.2 | 43.6 | 44.7 | 45.8 | 46.4 | 47.4 | 48.2 | 48.9 |
| | SDT | 35.2 | 40.9 | 43.8 | 45.8 | 48.7 | 51.6 | 54.4 | 56.4 | 59.4 | 62.3 | 65.2 |
| | SCT | 34.3 | 40.2 | 43.2 | 45.2 | 48.1 | 51.1 | 54.0 | 56.0 | 59.0 | 62.0 | 65.0 |
| 2 | TC | 173.0 | 161.0 | 155.0 | 151.0 | 145.0 | 139.0 | 133.0 | 129.0 | 123.0 | 117.0 | 111.0 |
| | KW | 37.6 | 41.0 | 42.6 | 43.7 | 45.1 | 46.4 | 47.6 | 48.4 | 49.5 | 50.4 | 51.2 |
| | SDT | 35.8 | 41.5 | 44.4 | 46.3 | 49.2 | 52.0 | 54.9 | 56.8 | 59.7 | 62.7 | 65.6 |
| | SCT | 34.7 | 40.7 | 43.6 | 45.6 | 48.5 | 51.5 | 54.4 | 56.4 | 59.3 | 62.3 | 65.2 |
| 4 | TC | 186.0 | 174.0 | 167.0 | 163.0 | 157.0 | 150.0 | 144.0 | 140.0 | 134.0 | 127.0 | 121.0 |
| | KW | 38.5 | 42.1 | 44.0 | 45.1 | 46.6 | 48.1 | 49.5 | 50.3 | 51.5 | 52.6 | 53.5 |
| | SDT | 36.5 | 42.1 | 45.0 | 46.9 | 49.7 | 52.6 | 55.4 | 57.3 | 60.2 | 63.1 | 65.9 |
| | SCT | 35.3 | 41.2 | 44.1 | 46.1 | 49.0 | 51.9 | 54.8 | 56.8 | 59.7 | 62.6 | 65.5 |
| 6 | TC | 200.0 | 186.0 | 180.0 | 175.0 | 169.0 | 162.0 | 155.0 | 151.0 | 145.0 | 138.0 | 132.0 |
| | KW | 39.4 | 43.3 | 45.3 | 46.5 | 48.2 | 49.8 | 51.3 | 52.2 | 53.6 | 54.8 | 55.9 |
| | SDT | 37.2 | 42.9 | 45.7 | 47.6 | 50.4 | 53.2 | 56.0 | 57.9 | 60.7 | 63.6 | 66.4 |
| | SCT | 35.9 | 41.8 | 44.7 | 46.6 | 49.5 | 52.5 | 55.4 | 57.3 | 60.2 | 63.1 | 66.0 |
| 8 | TC | 214.0 | 200.0 | 193.0 | 188.0 | 181.0 | 174.0 | 167.0 | 163.0 | 156.0 | 149.0 | 142.0 |
| | KW | 40.3 | 44.6 | 46.6 | 47.9 | 49.8 | 51.5 | 53.1 | 54.1 | 55.6 | 57.0 | 58.2 |
| | SDT | 38.1 | 43.7 | 46.5 | 48.3 | 51.1 | 53.9 | 56.7 | 58.6 | 61.4 | 64.2 | 67.0 |
| | SCT | 36.6 | 42.4 | 45.3 | 47.3 | 50.2 | 53.1 | 55.9 | 57.9 | 60.7 | 63.6 | 66.5 |
| 10 | TC | 228.0 | 213.0 | 206.0 | 201.0 | 194.0 | 187.0 | 179.0 | 175.0 | 167.0 | 160.0 | 153.0 |
| | KW | 41.3 | 45.8 | 48.0 | 49.4 | 51.3 | 53.2 | 55.0 | 56.1 | 57.7 | 59.2 | 60.6 |
| | SDT | 39.0 | 44.5 | 47.3 | 49.1 | 51.9 | 54.7 | 57.4 | 59.3 | 62.1 | 64.8 | 67.6* |
| | SCT | 37.3 | 43.1 | 46.0 | 48.0 | 50.8 | 53.7 | 56.6 | 58.5 | 61.3 | 64.2 | 67.0 |

| 38AH134 MODULE 134B | | | | | | | | | | | | |
|---------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SST (C) | | Air Temperature Entering Condenser (C) | | | | | | | | | | |
| | | 21 | 27 | 30 | 32 | 35 | 38 | 41 | 43 | 46 | 49 | 52 |
| -2 | TC | 181.0 | 169.0 | 163.0 | 159.0 | 153.0 | 147.0 | 141.0 | 137.0 | 131.0 | 125.0 | 119.0 |
| | KW | 45.2 | 48.6 | 50.1 | 51.1 | 52.5 | 53.8 | 54.9 | 55.6 | 56.6 | 57.4 | 58.2 |
| | SDT | 34.0 | 39.8 | 42.7 | 44.6 | 47.5 | 50.4 | 53.4 | 55.4 | 58.3 | 61.3 | 64.3 |
| | SCT | 31.9 | 37.7 | 40.7 | 42.6 | 45.5 | 48.5 | 51.4 | 53.4 | 56.3 | 59.3 | 62.2 |
| 0 | TC | 195.0 | 182.0 | 176.0 | 172.0 | 166.0 | 159.0 | 153.0 | 149.0 | 143.0 | 136.0 | 130.0 |
| | KW | 46.5 | 50.2 | 51.8 | 52.9 | 54.4 | 55.8 | 57.1 | 57.9 | 59.1 | 60.1 | 61.0 |
| | SDT | 34.5 | 40.2 | 43.1 | 45.0 | 47.8 | 50.7 | 53.6 | 55.5 | 58.4 | 61.4 | 64.3 |
| | SCT | 32.4 | 38.2 | 41.2 | 43.1 | 46.0 | 48.9 | 51.7 | 53.6 | 56.5 | 59.4 | 62.4 |
| 2 | TC | 210.0 | 196.0 | 190.0 | 185.0 | 179.0 | 172.0 | 166.0 | 161.0 | 155.0 | 148.0 | 142.0 |
| | KW | 47.8 | 51.8 | 53.6 | 54.8 | 56.4 | 58.0 | 59.4 | 60.3 | 61.6 | 62.7 | 63.7 |
| | SDT | 35.2 | 40.9 | 43.7 | 45.6 | 48.4 | 51.3 | 54.1 | 56.0 | 58.9 | 61.8 | 64.6 |
| | SCT | 33.0 | 38.8 | 41.7 | 43.7 | 46.5 | 49.4 | 52.3 | 54.2 | 57.0 | 59.9 | 62.7 |
| 4 | TC | 224.0 | 211.0 | 204.0 | 199.0 | 192.0 | 185.0 | 179.0 | 174.0 | 167.0 | 160.0 | 153.0 |
| | KW | 49.0 | 53.4 | 55.4 | 56.6 | 58.5 | 60.1 | 61.7 | 62.7 | 64.1 | 65.4 | 66.6 |
| | SDT | 36.0 | 41.6 | 44.4 | 46.3 | 49.1 | 51.9 | 54.7 | 56.5 | 59.3 | 62.2 | 65.0 |
| | SCT | 33.6 | 39.5 | 42.3 | 44.3 | 47.1 | 50.0 | 52.8 | 54.7 | 57.5 | 60.3 | 63.1 |
| 6 | TC | 240.0 | 226.0 | 218.0 | 213.0 | 206.0 | 199.0 | 192.0 | 187.0 | 180.0 | 173.0 | 165.0 |
| | KW | 50.3 | 55.0 | 57.1 | 58.5 | 60.5 | 62.3 | 64.1 | 65.1 | 66.7 | 68.1 | 69.4 |
| | SDT | 36.7 | 42.3 | 45.1 | 47.0 | 49.8 | 52.6 | 55.3 | 57.2 | 60.0 | 62.8 | 65.5 |
| | SCT | 34.3 | 40.1 | 43.0 | 44.9 | 47.7 | 50.6 | 53.4 | 55.3 | 58.1 | 60.9 | 63.7 |
| 8 | TC | 256.0 | 241.0 | 233.0 | 228.0 | 221.0 | 213.0 | 206.0 | 201.0 | 193.0 | 186.0 | 178.0 |
| | KW | 51.5 | 56.6 | 58.9 | 60.4 | 62.5 | 64.5 | 66.4 | 67.6 | 69.3 | 70.9 | 72.4 |
| | SDT | 37.6 | 43.1 | 45.9 | 47.8 | 50.5 | 53.3 | 56.1 | 57.9 | 60.7 | 63.4 | 66.2 |
| | SCT | 34.9 | 40.7 | 43.6 | 45.5 | 48.4 | 51.2 | 54.0 | 55.9 | 58.7 | 61.5 | 64.2 |
| 10 | TC | 273.0 | 257.0 | 249.0 | 244.0 | 236.0 | 228.0 | 220.0 | 215.0 | 207.0 | 199.0 | 191.0 |
| | KW | 52.8 | 58.2 | 60.7 | 62.2 | 64.6 | 66.7 | 68.8 | 70.0 | 71.9 | 73.7 | 75.3 |
| | SDT | 38.4 | 44.0 | 46.7 | 48.6 | 51.3 | 54.1 | 56.8 | 58.7 | 61.4 | 64.2 | 66.9 |
| | SCT | 35.6 | 41.4 | 44.3 | 46.2 | 49.0 | 51.8 | 54.7 | 56.5 | 59.3 | 62.1 | 64.8 |

LEGEND

- KW** — Compressor Power
- SCT** — Saturated Condensing Temperature (C)
- SDT** — Saturated Discharge Temperature (leaving compressor) (C)
- SST** — Saturated Suction Temperature (entering condensing unit)
- TC** — Gross Cooling Capacity (kW)

*May require replacement of the high-pressure cutout switches with switches of a higher setting.

NOTES:

1. Ratings are based on 8.3 C superheat and use of R-22 refrigerant.
2. Ratings include suction line losses due to an accumulator.

Electrical data



38AH044-084 DUAL-CIRCUIT CONDENSING UNITS, 60 Hz

| UNIT 38AH | VOLTAGE DESIGNATION | COMPRESSOR MODEL (A/B) | NAMEPLATE V-Ph-Hz | SUPPLY VOLTAGE* | | POWER SUPPLY | | | COMPRESSOR† | | | |
|-----------|---------------------|------------------------|-------------------|-----------------|-----|--------------|------|-------|-------------|-----|-------|-----|
| | | | | Min | Max | MCA | MOCP | ICF | A | | B | |
| | | | | | | | | | RLA | LRA | RLA | LRA |
| 044 | 500 | 06E-250/250 | 208/230-3-60 | 187 | 254 | 177.0 | 225 | 434.7 | 67.9 | 345 | 67.9 | 345 |
| | 600 | | 460-3-60 | 414 | 508 | 90.1 | 110 | 218.6 | 34.6 | 173 | 34.6 | 173 |
| | 100 | | 575-3-60 | 518 | 632 | 78.4 | 100 | 162.4 | 28.8 | 120 | 28.8 | 120 |
| | 200 | | 380-3-60 | 342 | 418 | 93.5 | 125 | 241.2 | 34.6 | 191 | 34.6 | 191 |
| 054 | 500 | 06E-250/265 | 208/230-3-60 | 187 | 254 | 204.3 | 250 | 535.7 | 67.9 | 345 | 89.7 | 446 |
| | 600 | | 460-3-60 | 414 | 508 | 101.3 | 125 | 268.6 | 34.5 | 173 | 43.6 | 223 |
| | 100 | | 575-3-60 | 518 | 632 | 88.0 | 110 | 206.4 | 28.8 | 120 | 36.5 | 164 |
| | 200 | | 380-3-60 | 342 | 418 | 107.1 | 150 | 297.2 | 34.6 | 191 | 45.5 | 247 |
| 064 | 500 | 06E-265/275 | 208/230-3-60 | 187 | 254 | 246.4 | 350 | 617.5 | 89.7 | 446 | 106.4 | 506 |
| | 600 | | 460-3-60 | 414 | 508 | 114.3 | 150 | 307.6 | 43.6 | 223 | 46.8 | 253 |
| | 100 | | 575-3-60 | 518 | 632 | 100.6 | 125 | 226.1 | 36.5 | 164 | 40.4 | 176 |
| | 200 | | 380-3-60 | 342 | 418 | 126.9 | 175 | 341.1 | 45.5 | 247 | 52.6 | 280 |
| 074 | 500 | 06E-275/299 | 208/230-3-60 | 187 | 254 | 327.2 | 450 | 829.0 | 106.4 | 506 | 147.4 | 690 |
| | 600 | | 460-3-60 | 414 | 508 | 147.4 | 200 | 408.2 | 46.8 | 253 | 65.4 | 345 |
| | 100 | | 575-3-60 | 518 | 632 | 132.2 | 175 | 336.8 | 40.4 | 176 | 57.1 | 276 |
| | 200 | | 380-3-60 | 342 | 418 | 174.5 | 250 | 458.0 | 52.6 | 280 | 78.8 | 382 |
| 084 | 500 | 06E-299/299 | 208/230-3-60 | 187 | 254 | 368.2 | 500 | 870.0 | 147.4 | 690 | 147.4 | 690 |
| | 600 | | 460-3-60 | 414 | 508 | 166.0 | 225 | 426.8 | 65.4 | 345 | 65.4 | 345 |
| | 100 | | 575-3-60 | 518 | 632 | 148.9 | 200 | 353.5 | 57.1 | 276 | 57.1 | 276 |
| | 200 | | 380-3-60 | 342 | 418 | 200.7 | 250 | 484.2 | 78.8 | 382 | 78.8 | 382 |

38AH094,104 DUAL-CIRCUIT CONDENSING UNITS, 60 Hz

| UNIT 38AH | VOLTAGE DESIGNATION | COMPRESSOR A1/A2/B1/B2 MODEL NO. | NAMEPLATE V-Ph-Hz | SUPPLY VOLTAGE* | | POWER SUPPLY | | | COMPRESSOR† | | | | | | | |
|-----------|---------------------|----------------------------------|-------------------|-----------------|-----|--------------|------|-------|-------------|-----|------|-----|-------|-----|------|-----|
| | | | | Min | Max | MCA | MOCP | ICF | A1 | | A2 | | B1 | | B2 | |
| | | | | | | | | | RLA | LRA | RLA | LRA | RLA | LRA | RLA | LRA |
| 094 | 500 | 06E-275/250/299/- | 208/230-3-60 | 187 | 254 | 396.0 | 500 | 754.2 | 106.4 | 506 | 67.9 | 345 | 147.4 | 690 | — | — |
| | 600 | | 460-3-60 | 414 | 508 | 182.0 | 225 | 369.4 | 46.8 | 253 | 34.6 | 173 | 65.4 | 345 | — | — |
| | 100 | | 575-3-60 | 518 | 632 | 160.9 | 200 | 282.3 | 40.4 | 176 | 28.8 | 120 | 57.1 | 276 | — | — |
| | 200 | | 380-3-60 | 342 | 418 | 209.1 | 250 | 416.8 | 52.6 | 280 | 34.6 | 191 | 78.8 | 382 | — | — |
| 104 | 500 | 06E-265/250/265/265 | 208/230-3-60 | 187 | 254 | 396.8 | 450 | 725.9 | 89.7 | 446 | 67.9 | 345 | 89.7 | 446 | 89.7 | 446 |
| | 600 | | 460-3-60 | 414 | 508 | 195.1 | 225 | 361.2 | 43.6 | 223 | 34.6 | 173 | 43.6 | 223 | 43.6 | 223 |
| | 100 | | 575-3-60 | 518 | 632 | 168.0 | 200 | 286.2 | 36.5 | 164 | 28.8 | 120 | 36.5 | 164 | 36.5 | 164 |
| | 200 | | 380-3-60 | 342 | 418 | 205.9 | 250 | 396.0 | 45.5 | 247 | 34.6 | 191 | 45.5 | 247 | 45.5 | 247 |

38AH124,134 DUAL-CIRCUIT CONDENSING UNITS, 60 Hz

| UNIT 38AH MODULE | VOLTAGE DESIGNATION | COMPRESSOR A1/A2 MODEL NO. | NAMEPLATE V-Ph-Hz | SUPPLY VOLTAGE* | | POWER SUPPLY** | | | COMPRESSOR† | | | |
|----------------------|---------------------|----------------------------|-------------------|-----------------|-----|----------------|------|-------|-------------|-----|-------|-----|
| | | | | Min | Max | MCA | MOCP | ICF | A1 | | A2 | |
| | | | | | | | | | RLA | LRA | RLA | LRA |
| 124A 124B 134A | 500 | 06E-275/265 | 208/230-3-60 | 187 | 254 | 246.9 | 350 | 573.8 | 106.4 | 506 | 89.7 | 446 |
| | 600 | | 460-3-60 | 414 | 508 | 114.3 | 150 | 280.8 | 46.8 | 253 | 43.6 | 223 |
| | 100 | | 575-3-60 | 518 | 632 | 100.6 | 125 | 218.0 | 40.4 | 176 | 36.5 | 164 |
| | 200 | | 380-3-60 | 342 | 418 | 126.9 | 175 | 315.2 | 52.6 | 280 | 45.5 | 247 |
| 134B | 500 | 06E-299/275 | 208/230-3-60 | 187 | 254 | 327.2 | 450 | 685.6 | 147.4 | 690 | 106.4 | 506 |
| | 600 | | 460-3-60 | 414 | 508 | 147.4 | 200 | 334.8 | 65.4 | 345 | 46.8 | 253 |
| | 100 | | 575-3-60 | 518 | 632 | 132.2 | 175 | 253.5 | 57.1 | 276 | 40.4 | 176 |
| | 200 | | 380-3-60 | 342 | 418 | 174.5 | 250 | 382.2 | 78.8 | 382 | 52.6 | 280 |

See Legend on page 69.

Electrical data (cont)



38AH044-084 OPTIONAL SINGLE-CIRCUIT CONDENSING UNITS, 60 Hz

| UNIT 38AH | VOLTAGE DESIGNATION | COMPRESSOR MODEL (A1/A2) | NAMEPLATE V-Ph-Hz | SUPPLY VOLTAGE* | | POWER SUPPLY | | | COMPRESSOR† | | | |
|--------------|------------------------|--------------------------------|----------------------|--------------------|-----|--------------|------|-------|-------------|-----|-------|-----|
| | | | | Min | Max | MCA | MOCP | ICF | A1 | | A2 | |
| | | | | | | | | | RLA | LRA | RLA | LRA |
| 044 | 500 | 06E-250/250 | 208/230-3-60 | 187 | 254 | 177.0 | 225 | 434.7 | 67.9 | 345 | 67.9 | 345 |
| | 600 | | 460-3-60 | 414 | 508 | 90.1 | 110 | 218.6 | 34.6 | 173 | 34.6 | 173 |
| | 100 | | 575-3-60 | 518 | 632 | 78.4 | 100 | 162.4 | 28.8 | 120 | 28.8 | 120 |
| | 200 | | 380-3-60 | 342 | 418 | 93.5 | 125 | 241.2 | 34.6 | 191 | 34.6 | 191 |
| 054 | 500 | 06E-265/250 | 208/230-3-60 | 187 | 254 | 204.3 | 250 | 456.5 | 89.7 | 446 | 67.9 | 345 |
| | 600 | | 460-3-60 | 414 | 508 | 101.3 | 125 | 227.6 | 43.6 | 223 | 34.6 | 173 |
| | 100 | | 575-3-60 | 518 | 632 | 88.0 | 110 | 170.1 | 36.5 | 164 | 28.8 | 120 |
| | 200 | | 380-3-60 | 342 | 418 | 107.1 | 150 | 252.1 | 45.5 | 247 | 34.6 | 191 |
| 064 | 500 | 06E-275/265 | 208/230-3-60 | 187 | 254 | 246.4 | 350 | 573.8 | 106.4 | 506 | 89.7 | 446 |
| | 600 | | 460-3-60 | 414 | 508 | 114.3 | 150 | 280.8 | 46.8 | 253 | 43.6 | 223 |
| | 100 | | 575-3-60 | 518 | 632 | 100.6 | 125 | 218.0 | 40.4 | 176 | 36.5 | 164 |
| | 200 | | 380-3-60 | 342 | 418 | 126.9 | 175 | 315.2 | 52.6 | 280 | 45.5 | 247 |
| 074 | 500 | 06E-299/275 | 208/230-3-60 | 187 | 254 | 327.2 | 450 | 685.6 | 147.4 | 690 | 106.4 | 506 |
| | 600 | | 460-3-60 | 414 | 508 | 147.4 | 200 | 334.8 | 65.4 | 345 | 46.8 | 253 |
| | 100 | | 575-3-60 | 518 | 632 | 132.2 | 175 | 253.5 | 57.1 | 276 | 40.4 | 176 |
| | 200 | | 380-3-60 | 342 | 418 | 174.5 | 250 | 382.2 | 78.8 | 382 | 52.6 | 280 |
| 084 | 500 | 06E-299/299 | 208/230-3-60 | 187 | 254 | 368.2 | 500 | 870.0 | 147.4 | 690 | 147.4 | 690 |
| | 600 | | 460-3-60 | 414 | 508 | 166.0 | 225 | 426.8 | 65.4 | 345 | 65.4 | 345 |
| | 100 | | 575-3-60 | 518 | 632 | 148.9 | 200 | 353.5 | 57.1 | 276 | 57.1 | 276 |
| | 200 | | 380-3-60 | 342 | 418 | 200.7 | 250 | 484.2 | 78.8 | 382 | 78.8 | 382 |

FANS

| UNIT 38AH | CONDENSER FAN MOTORS | | | | |
|--------------------------------|----------------------|-----|----|-------------|---------------------|
| | Nameplate V-Ph-Hz | Qty | Hp | Total kW | (No.) FLA Each |
| 044 | 208/230-3-60 | 4 | 1 | 6.2 | (1,2) 5.5 (3,4) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3,4) 3.3 |
| | 575-3-60 | | | | (1-4) 3.4 |
| | 380-3-60 | | | | (1-4) 3.9 |
| 054 | 208/230-3-60 | 4 | 1 | 6.2 | (1,2) 5.5 (3,4) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3,4) 3.3 |
| | 575-3-60 | | | | (1-4) 3.4 |
| | 380-3-60 | | | | (1-4) 3.9 |
| 064 | 208/230-3-60 | 4 | 1 | 6.2 | (1,2) 5.5 (3,4) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3,4) 3.3 |
| | 575-3-60 | | | | (1-4) 3.4 |
| | 380-3-60 | | | | (1-4) 3.9 |
| 074 | 208/230-3-60 | 6 | 1 | 9.3 | (1,2) 5.5 (3-6) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3-6) 3.3 |
| | 575-3-60 | | | | (1-6) 3.4 |
| | 380-3-60 | | | | (1-6) 3.9 |
| 084 | 208/230-3-60 | 6 | 1 | 9.3 | (1,2) 5.5 (3-6) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3-6) 3.3 |
| | 575-3-60 | | | | (1-6) 3.4 |
| | 380-3-60 | | | | (1-6) 3.9 |
| 094 | 208/230-3-60 | 6 | 1 | 9.4 | (1,2) 5.5 (3-6) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3-6) 3.3 |
| | 575-3-60 | | | | (1-6) 3.4 |
| | 380-3-60 | | | | (1-6) 3.9 |
| 104 | 208/230-3-60 | 6 | 1 | 9.5 | (1,2) 5.5 (3-6) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3-6) 3.3 |
| | 575-3-60 | | | | (1-6) 3.4 |
| | 380-3-60 | | | | (1-6) 3.9 |
| Modules 124A, 124B, 134A | 208/230-3-60 | 4 | 1 | 6.4 | (1,2) 5.5 (3,4) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3,4) 3.3 |
| | 575-3-60 | | | | (1-4) 3.4 |
| | 380-3-60 | | | | (1-4) 3.9 |
| Module 134B | 208/230-3-60 | 6 | 1 | 9.2 | (1,2) 5.5 (3-6) 6.6 |
| | 460-3-60 | | | | (1,2) 2.8 (3-6) 3.3 |
| | 575-3-60 | | | | (1-6) 3.4 |
| | 380-3-60 | | | | (1-6) 3.9 |

CONTROL CIRCUIT

| 38AH 044-134 | UNIT POWER | CONTROL POWER | | AMPS | |
|-----------------|--------------|---------------|-----|------|-----|
| | V-Ph-Hz | V-Ph-Hz | Min | | Max |
| -500 | 208/230-3-60 | 115-1-60 | 103 | 127 | 4.1 |
| -600 | 460-3-60 | 115-1-60 | 103 | 127 | 4.1 |
| -100 | 575-3-60 | 115-1-60 | 103 | 127 | 4.1 |
| -200 | 380-3-60 | 230-1-60 | 207 | 253 | 2.0 |

See Legend on page 69.



**LEGEND and NOTES
(for pages 67 and 68)**

LEGEND

- AWG** — American Wire Gage
- FLA** — Full Load Amps
- ICF** — Maximum Instantaneous Current Flow During Starting.
(The point in the starting sequence where the sum of the LRA for the starting compressors, plus the total RLA for all running compressors plus the FLA for all running fan motors is maximum.)
- IFC** — Indoor-Fan Contactor
- kcmil** — Thousand Circular Mills
- LLS** — Liquid Line Solenoid
- LRA** — Locked Rotor Amps
- MCA** — Minimum Circuit Amps (used for sizing; complies with National Electrical Code [NEC] section 430-24.)
- MOCP** — Maximum Overcurrent Protection (used for sizing disconnect; complies with NEC Article 440-22.)
- RLA** — Rated Load Amps
- UL** — Underwriters' Laboratories

*Units are suitable for use on electrical systems where voltage supplied to unit terminals is within listed minimum to maximum limits.

†All compressors are across-the-line start only.

**38AH124 and 134 units require a separate power supply for each unit module.

NOTES:

1. Maximum allowable phase imbalance:
Voltage — 2%
Amps — 10%
2. Maximum incoming wire size for terminal block is 500 kcmil.
3. Wiring for field power supply must be rated 75 C minimum. Use copper, copper-clad aluminum, or aluminum conductors. Maximum incoming wire size for each terminal block is 500 kcmil.
4. Terminal blocks TB3 and TB4 are for external field control connections. Control connections are to be class 1 wiring.

5. Field-supplied components (IFC, LLS-A, and LLS-B) must have a maximum sealed coil rating of 30 va each (0.25 amp at 120 vac and 0.13 amp at 230 vac). Thermostats must have a minimum pilot duty rating as follows:

| 38AH | VA (Each Stage) | AMPS | VAC |
|---------|--------------------|--------------|------------|
| 044-084 | 300 | 2.5 | 120 |
| | | 1.3 | 240 |
| 094 | 275 | 2.29 1.15 | 120 240 |
| 104 | 325 | 2.70 1.35 | 120 240 |
| 124 | 300 | 2.50 | 120 |
| 134 | 300 | 2.50 | 120 |

6. Units have the following va of power available for field-installed accessories:

38AH044-084 — 175 va

38AH094 — 140 va

38AH104 — 130 va

38AH124,134 — 175 va each module

7. To minimize voltage drop, the following wire sizes are recommended:

| LENGTH (ft) | INSULATED WIRE — AWG (35 C Minimum) |
|--------------|--|
| Up to 50 | No. 18 |
| 50-75 | No. 16 |
| More Than 75 | No. 14 |

8. The 575-v base units are UL, Canada approved.
9. The 208/230-v and 460-v base units are UL and UL, Canada approved.
10. Unit 38AH124 consists of Modules 124A and 124B. Unit 38AH134 consists of Modules 134A and 134B. Each module has a control box.
11. All fans are protected by a single circuit breaker.



Electrical data (cont)



38AH044-084, 50 Hz

| UNIT 38AH | VOLTAGE DESIGNATION | COMPRESSOR MODEL (A/B DUAL-CIRCUIT) (A1/A2 SINGLE-CIRCUIT) | NAMEPLATE VOLTS-PH-Hz | SUPPLY VOLTAGE* | | POWER SUPPLY | | | COMPRESSOR† | | | |
|--------------|------------------------|---|--------------------------|--------------------|-----|--------------|------|-------|-------------|-----|------|-----|
| | | | | Min | Max | MCA | MOCP | ICF | A | | B | |
| | | | | | | | | | RLA | LRA | RLA | LRA |
| 044 | 800 (PW) | 06E-250/250 | 230-3-50 | 198 | 254 | 179.0 | 225 | 296.7 | 67.9 | 207 | 67.9 | 207 |
| | 900 | | 380/415-3-50 | 348 | 440 | 90.7 | 100 | 219.6 | 34.6 | 173 | 34.6 | 173 |
| | 300 (PW) | | 346-3-50 | 325 | 367 | 92.6 | 125 | 165.9 | 33.3 | 115 | 33.3 | 115 |
| 054 | 900 | 06E-250/265 | 380/415-3-50 | 342 | 440 | 101.9 | 125 | 269.6 | 34.6 | 173 | 43.6 | 223 |
| | 300 (PW) | | 346-3-50 | 325 | 367 | 107.0 | 150 | 198.9 | 33.3 | 115 | 44.9 | 148 |
| 064 | 900 | 06E-265/275 | 380/415-3-50 | 342 | 440 | 114.9 | 150 | 335.6 | 43.6 | 223 | 46.8 | 280 |
| | 300 (PW) | | 346-3-50 | 325 | 367 | 129.8 | 175 | 230.5 | 44.9 | 148 | 53.8 | 168 |
| 074 | 900 | 06E-275/299 | 380/415-3-50 | 342 | 440 | 148.2 | 200 | 403.8 | 46.8 | 280 | 65.4 | 345 |
| | 300 (PW) | | 346-3-50 | 325 | 367 | 170.8 | 250 | 300.4 | 53.8 | 168 | 79.5 | 229 |
| 084 | 900 | 06E-299/299 | 380/415-3-50 | 342 | 440 | 166.8 | 225 | 428.4 | 65.4 | 345 | 65.4 | 345 |
| | 300 (PW) | | 346-3-50 | 325 | 367 | 205.3 | 250 | 334.9 | 79.5 | 229 | 79.5 | 229 |

38AH094 and 104, 50 Hz

| UNIT 38AH | VOLTAGE DESIGNATION | COMPRESSOR A1/A2/B1/B2 MODEL NO. | NAMEPLATE VOLTS-PH-Hz | SUPPLY VOLTAGE* | | POWER SUPPLY | | | COMPRESSOR† | | | | | | | |
|--------------|------------------------|--|--------------------------|--------------------|-----|--------------|------|-----|-------------|-----|------|-----|------|-----|------|-----|
| | | | | Min | Max | MCA | MOCP | ICF | A1 | | A2 | | B1 | | B2 | |
| | | | | | | | | | RLA | LRA | RLA | LRA | RLA | LRA | RLA | LRA |
| 094 | 300 (PW) | 06E-275/250/ 299/— | 346-3-50 | 325 | 380 | 212.9 | 250 | 343 | 53.8 | 168 | 33.3 | 115 | 79.5 | 229 | — | — |
| | 900 | | 380/415-3-50 | 342 | 440 | 182.8 | 225 | 444 | 46.8 | 280 | 34.6 | 173 | 65.4 | 345 | — | — |
| 104 | 300 (PW) | 06E-265/250/ 265/265 | 346-3-50 | 325 | 380 | 205.6 | 250 | 298 | 44.9 | 148 | 33.3 | 229 | 44.9 | 148 | 49.9 | 148 |
| | 900 | | 380/415-3-50 | 342 | 440 | 195.9 | 225 | 363 | 43.6 | 223 | 34.6 | 173 | 43.6 | 223 | 43.6 | 223 |

38AH124 and 134, 50 Hz

| UNIT 38AH MODULE | VOLTAGE DESIGNATION | COMPRESSOR A1/A2 MODEL NO. | NAMEPLATE VOLTS-PH-Hz | SUPPLY VOLTAGE* | | POWER SUPPLY** | | | COMPRESSOR† | | | |
|------------------------|------------------------|----------------------------------|--------------------------|--------------------|-----|----------------|------|-----|-------------|-----|------|-----|
| | | | | Min | Max | MCA | MOCP | ICF | A1 | | A2 | |
| | | | | | | | | | RLA | LRA | RLA | LRA |
| 124A 124B 134A | 300 (PW) | 06E-275/265 | 346-3-50 | 325 | 367 | 129.8 | 175 | 231 | 53.8 | 168 | 44.9 | 148 |
| | 900 | | 380/415-3-50 | 342 | 440 | 114.9 | 150 | 336 | 46.8 | 280 | 43.6 | 223 |
| 134B | 300 (PW) | 06E-299/275 | 346-3-50 | 325 | 367 | 170.8 | 250 | 300 | 79.5 | 229 | 53.8 | 168 |
| | 900 | | 380/415-3-50 | 342 | 440 | 148.2 | 200 | 404 | 65.4 | 345 | 46.8 | 280 |

See Legend and Notes on page 71.



FANS

| UNIT/MODULE 38AH | CONDENSER FAN MOTORS | | | | |
|-------------------------------|--------------------------|-----|----|-------------|----------------------------------|
| | Nameplate Volts-Ph-Hz | Qty | Hp | Total kW | (No.) FLA Each |
| 044 | 230-3-50 | 4 | 1 | 6.2 | (1,2) 6.3 (3,4) 6.8 |
| | 380/415-3-50 | | | | (1,2) 3.0 (3,4) 3.4 |
| | 346-3-50 | | | | (1-4) 4.4 |
| 054 | 380/415-3-50 | 4 | 1 | 6.2 | (1,2) 3.0 (3,4) 3.4 |
| | 346-3-50 | | | | (1-4) 4.4 |
| 064 | 380/415-3-50 | 4 | 1 | 6.2 | (1,2) 3.0 (3,4) 3.4 |
| | 346-3-50 | | | | (1-4) 4.4 |
| 074 | 380/415-3-50 | 6 | 1 | 9.3 | (1,2) 3.0 (3-6) 3.4 |
| | 346-3-50 | | | | (1-6) 4.4 |
| 084 | 380/415-3-50 | 6 | 1 | 9.3 | (1,2) 3.0 (3-6) 3.4 |
| | 346-3-50 | | | | (1-6) 4.4 |
| 094 | 380/415-3-50 | 6 | 1 | 9.4 | (1,2) 3.0 (3-6) 3.4 |
| | 346-3-50 | | | | (1-6) 4.4 |
| 104 | 380/415-3-50 | 6 | 1 | 9.5 | (1,2) 3.0 (3-6) 3.4 |
| | 346-3-50 | | | | (1-6) 4.4 |
| 124A 124B 134A | 380/415-3-50 | 4 | 1 | 6.4 | (1,2) 3.0 (3,4) 3.4 |
| | 346-3-50 | | | | (1-4) 4.4 |
| | | | | | |
| 134B | 380/415-3-50 | 6 | 1 | 9.2 | (1,2) 3.0 (3,4) 3.4 (1-6) 4.4 |

CONTROL CIRCUIT

| 38AH 044-134 | UNIT POWER | CONTROL POWER | | AMPS | |
|-----------------|--------------|---------------|-----|------|-----|
| | V-Ph-Hz | V-Ph-Hz | Min | | Max |
| -800 | 230-3-50 | 230-1-50 | 207 | 253 | 2.0 |
| -300 | 346-3-50 | 200-1-50 | 180 | 220 | 2.4 |
| -900 | 380/415-3-50 | 230-1-50 | 207 | 253 | 2.0 |

LEGEND and NOTES (for pages 70 and 71)

- AWG** — American Wire Gage
FLA — Full Load Amps
ICF — Maximum Instantaneous Current Flow During Starting. (The point in the starting sequence where the sum of the LRA for the starting compressors, plus the total FLA for all running compressors plus the FLA for all running fan motors is maximum.)
IFC — Indoor-Fan Contactor
kcmil — Thousand Circular Mils
LLS — Liquid Line Solenoid
LRA — Locked Rotor Amps
MCA — Minimum Circuit Amps (used for sizing; complies with National Electrical Code [NEC] section 430-24, U.S.A.)
MOCP — Maximum Overcurrent Protection (used for sizing disconnect; complies with NEC Article 440-22, U.S.A.)
PW — Part Wind
RLA — Rated Load Amps

*Units are suitable for use on electrical systems where voltage supplied to unit terminals is within listed minimum to maximum limits.

†Compressors are across-the-line start unless voltage designation shows (PW).

**38AH124 and 134 units require a separate power supply for each unit module.

NOTES:

- Maximum allowable phase imbalance:
Voltage — 2%
Amps — 10%
- Maximum incoming wire size for terminal block is 500 kcmil.
- Wiring for field power supply must be rated 75 C minimum. Use copper, copper-clad aluminum, or aluminum conductors. Maximum incoming wire size for each terminal block is 500 kcmil.
- Terminal blocks TB3 and TB4 are for external field control connections. Control connections are to be class 1 wiring.

- Field-supplied components (IFC, LLS-A, and LLS-B) must have a maximum sealed coil rating of 30 va each or less (0.13 amp at 230 vac). Thermostats must have a minimum pilot duty rating as follows:

| 38AH | VA (Each Stage) | AMPS | CONTROL CIRCUIT VOLTAGE |
|----------------|--------------------|------|-------------------------------|
| 044-084 | 300 | 1.30 | 240 |
| 094 | 275 | 1.15 | |
| 104 | 325 | 1.35 | |
| 124 | 300 | 1.30 | |
| 134 | 300 | 1.30 | |

- Units have the following va of power available for field-installed accessories:
38AH044-084 — 175 va
38AH094 — 140 va
38AH104 — 130 va
38AH124,134 — 175 va each module
- To minimize voltage drop, the following wire sizes are recommended:

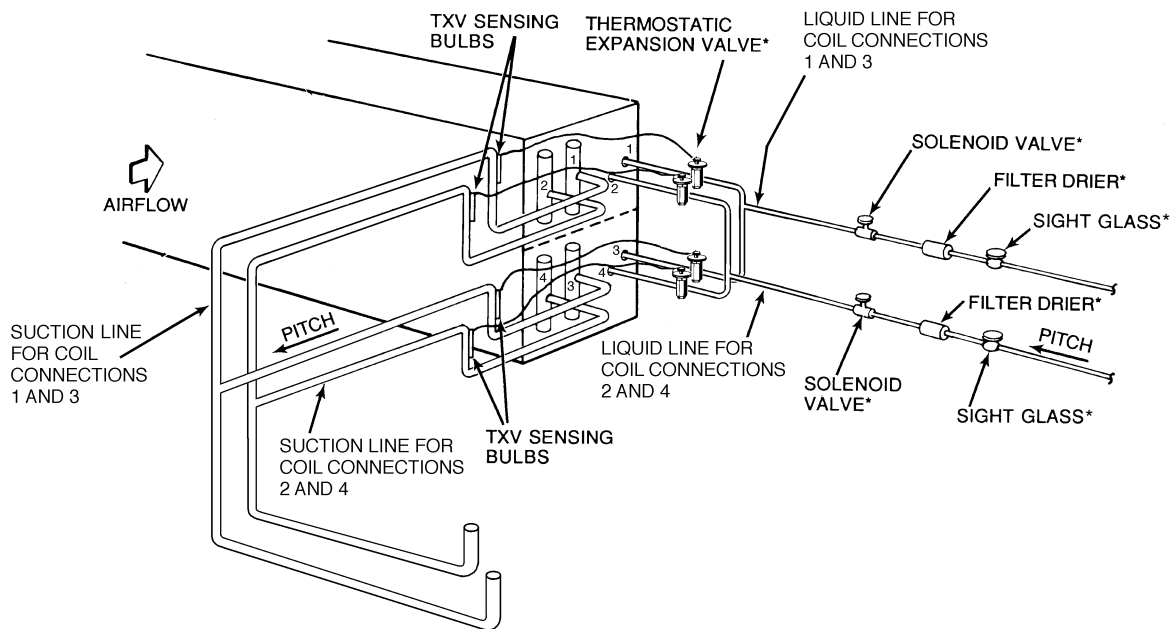
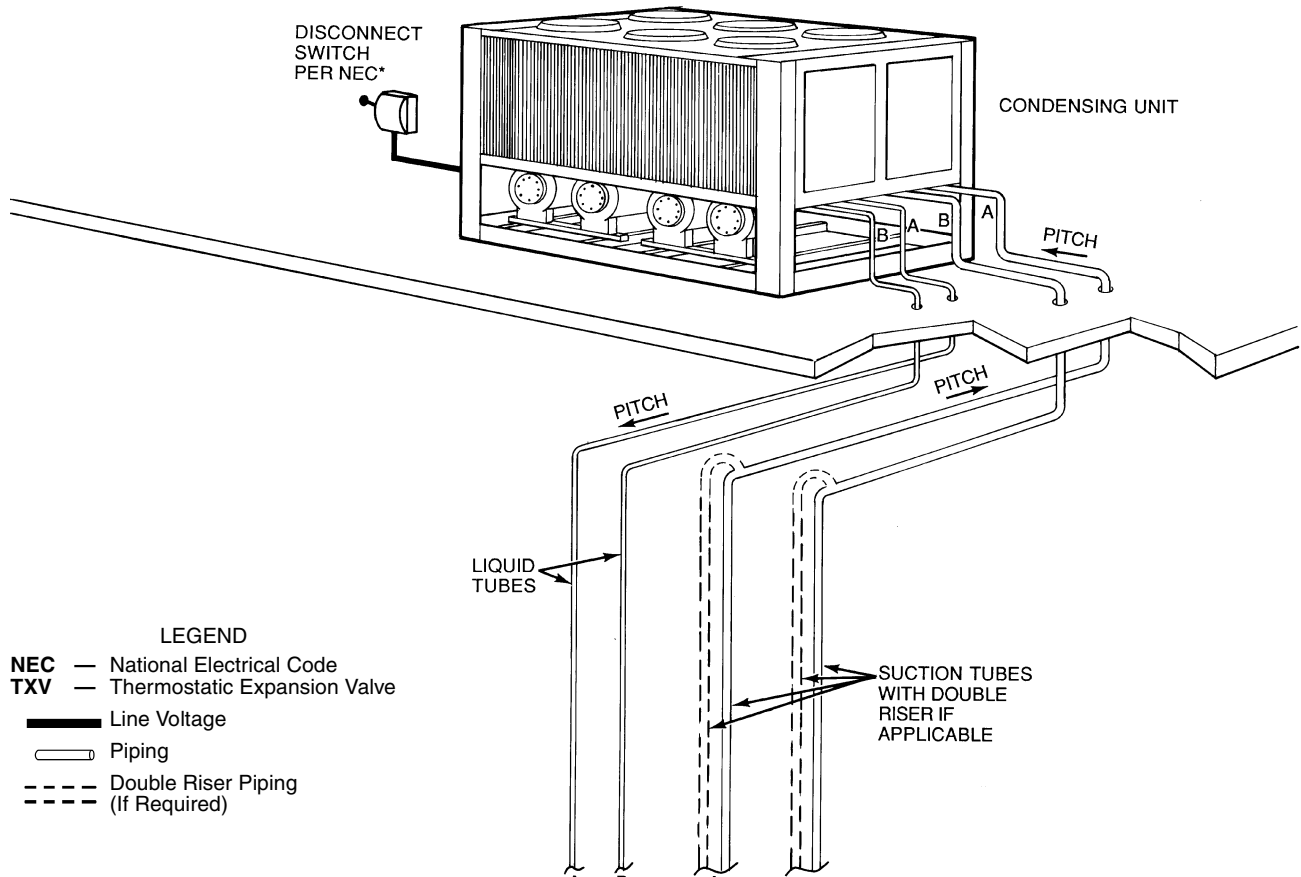
| LENGTH (Ft) | INSULATED WIRE — AWG (35 C Minimum) |
|---------------------|--|
| Up to 50 | No. 18 |
| 50-75 | No. 16 |
| More Than 75 | No. 14 |

- Unit 38AH124 consists of Modules 124A and 124B. Unit 38AH134 consists of Modules 134A and 134B. Each module has a control box.
- All fans are protected by a single circuit breaker.

Typical piping and wiring 38AH044-134



ROOFTOP INSTALLATION — UNIT 38AH104 WITH SINGLE AIR HANDLER SHOWN

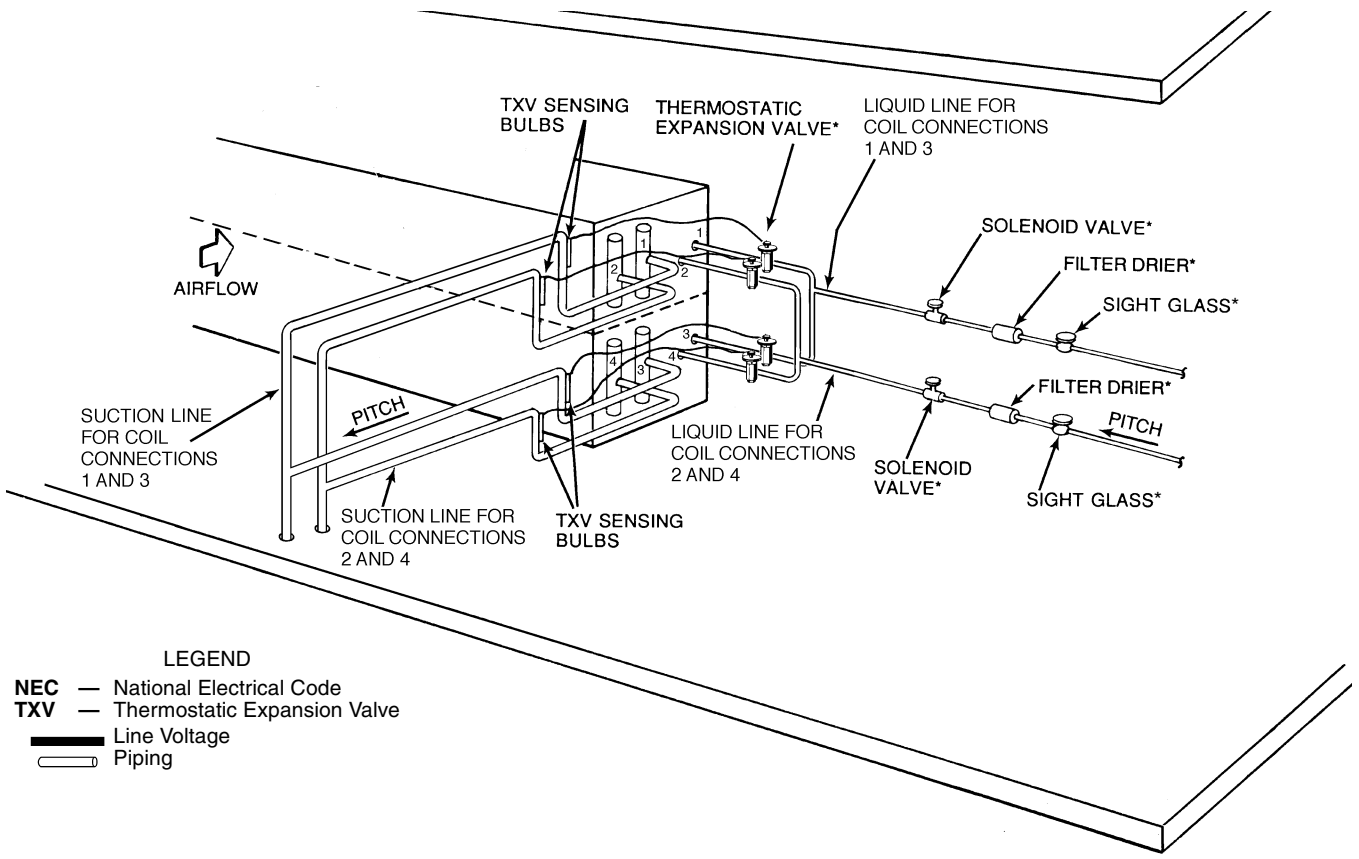


*Field supplied, see Refrigerant Specialties table on page 74 for recommended component part numbers.

NOTES:

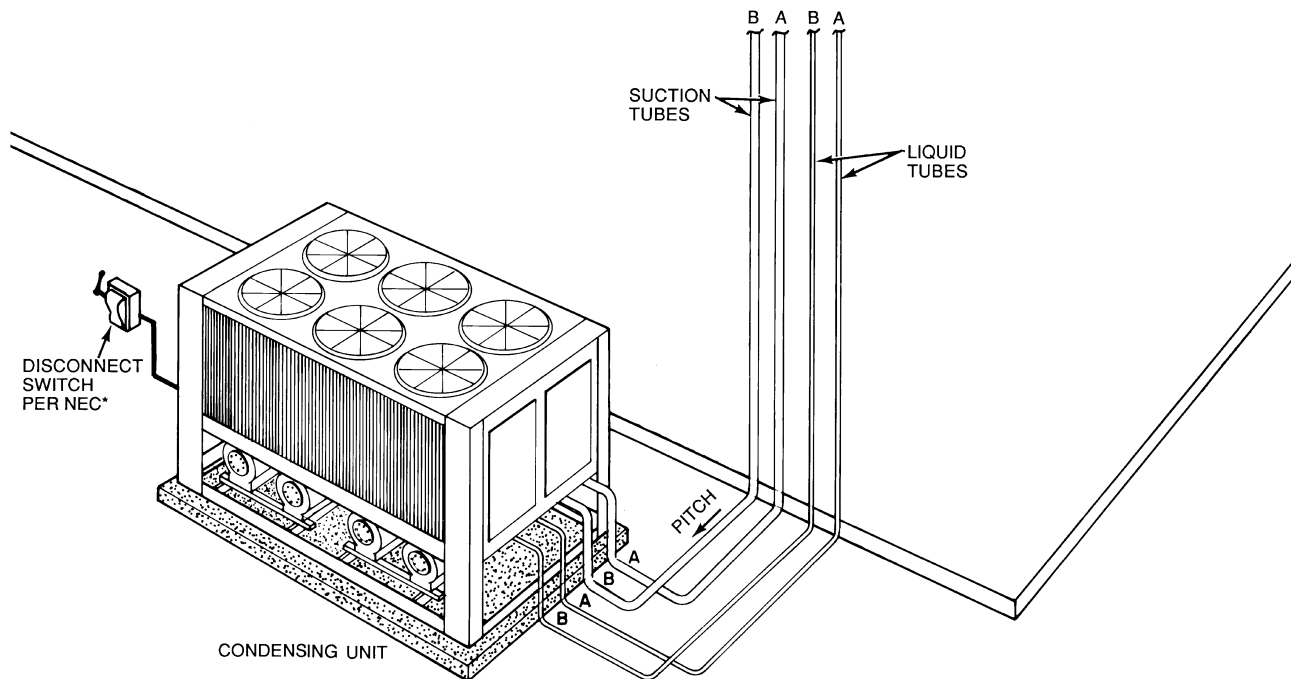
1. All piping must follow standard refrigerant piping techniques. Refer to Carrier System Design Manual for details.
2. All wiring must comply with the applicable local and national codes.
3. Wiring and piping shown are general points-of-connection guides only and are not intended for, or to include all details for, a specific installation. Row-split connection shown.
4. Liquid line solenoid valve (solenoid drop control) is required to minimize refrigerant migration to the compressor.

GROUND-LEVEL INSTALLATION — UNIT 38AH104 WITH SINGLE AIR HANDLER SHOWN



LEGEND

- NEC** — National Electrical Code
- TXV** — Thermostatic Expansion Valve
- Line Voltage
- Piping



*Field supplied, see Refrigerant Specialties table on page 74 for recommended component part numbers.

NOTES:

1. All piping must follow standard refrigerant piping techniques. Refer to Carrier System Design Manual for details.
2. All wiring must comply with the applicable local and national codes.
3. Wiring and piping shown are general points-of-connection guides only and are not intended for, or to include all details for, a specific installation. Row-split connection shown.
4. Liquid line solenoid valve (solenoid drop control) is required to minimize refrigerant migration to the compressor.

Typical piping and wiring 38AH044-134 (cont)



REFRIGERANT SPECIALTIES PART NUMBERS

| UNIT | LIQUID LINE SIZE* | LIQUID LINE SOLENOID VALVE (LLS) | LLS COIL 50 Hz UNITS | LLS COIL 60 Hz UNITS | SIGHT GLASS | FILTER DRIER |
|------------------|-------------------|----------------------------------|----------------------|----------------------|-----------------|-------------------|
| 38AH044 | 5/8" | 240RA9T5M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT5 Qty 2 | P502-8757S† Qty 2 |
| | 7/8" | 240RA9T7M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT7 Qty 2 | P502-8757S Qty 2 |
| 38AH054 | 5/8" | 240RA9T7M† Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT5 Qty 2 | C-967† Qty 2 |
| | 7/8" | 240RA9T7M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT7 Qty 2 | C-967 Qty 2 |
| 38AH064 | 7/8" | 240RA9T7M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT7 Qty 2 | C-969† Qty 2 |
| | 1 1/8" | 240RA9T9M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT9 Qty 2 | C-969 Qty 2 |
| 38AH074-084 | 7/8" | 240RA16T9M† Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT7 Qty 2 | C-1449† Qty 2 |
| | 1 1/8" | 240RA16T9M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT9 Qty 2 | C-1449 Qty 2 |
| | 1 3/8" | 240RA16T11M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT9† Qty 2 | C-1441 Qty 2 |
| 38AH094-104 | 7/8" | 240RA16T9M† Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT7 Qty 2 | C-1441† Qty 2 |
| | 1 1/8" | 240RA16T9M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT9 Qty 2 | C-1441† Qty 2 |
| | 1 3/8" | 240RA16T11M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT9† Qty 2 | C-1441 Qty 2 |
| 38AH124 | 7/8" | 240RA9T7M Qty 4 | AMG/208-240V Qty 4 | AMG/120V Qty 4 | AMI-1TT7 Qty 2 | C-1921† Qty 2 |
| | 1 1/8" | 240RA9T9M Qty 4 | AMG/208-240V Qty 4 | AMG/120V Qty 4 | AMI-1TT9 Qty 2 | C-1921† Qty 2 |
| 38AH134 Module A | 7/8" | 240RA9T7M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT7 Qty 1 | C-1921† Qty 1 |
| | 1 1/8" | 240RA9T9M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT9 Qty 1 | C-1921† Qty 1 |
| 38AH134 Module B | 7/8" | 240RA16T9M† Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT7 Qty 1 | C-1921† Qty 1 |
| | 1 1/8" | 240RA16T9M Qty 2 | AMG/208-240V Qty 2 | AMG/120V Qty 2 | AMI-1TT9 Qty 1 | C-1921† Qty 1 |

LEGEND

LLS — Liquid Line Solenoid

*Choose liquid line size using the tables on pages 82-87 before choosing refrigerant specialty parts.

†Bushings required.

NOTE: 38AH044-084 Single Circuit units, refrigerant specialties are installed in the branch sections of the liquid line at the indoor unit.

Controls



38AH044-084

Sequence of operation

Circuits A1 and B1 are controlled by independent circuitry, making it possible to maintain partial cooling capability even if one compressor is inoperable.

NOTE: Single-circuit units do not have independent control circuitry.

On a call for cooling, the first-stage cooling thermostat TC1 closes, energizing the first stage of the condenser fans and timer motor TM-A (TM for single-circuit units). After 12 seconds, the timer energizes lead compressor contactor C-A1 and the lead compressor starts. (Circuit A compressor is the lead on dual-circuit units, and compressor A1 is the lead on single-circuit units.) At the same time, solenoid drop relay SDR2 energizes and closes its contacts, which energizes and opens liquid line solenoid valve LLS-A (LLS-A1 for single-circuit units). Circuit A (compressor A1 for single-circuit units) is now operational.

A set of bypass contacts in timer TM-A allows the circuit A compressor (compressor A1 for single-circuit units) 40 seconds to build sufficient oil pressure. If the oil pressure is insufficient after 40 seconds, circuit A (compressor A1 for single-circuit units) shuts down and must be reset manually.

A second set of bypass contacts in timer TM-A (TM for single-circuit units) allows the refrigerant circuit 2¹/₂ minutes to build sufficient low-side pressure. This time delay is a start-up feature for low ambient conditions; no accessory is required. If refrigerant circuit pressure is insufficient to close the low-pressure switch after 2¹/₂ minutes, the circuit A compressor (compressor A1 for single-circuit units) shuts down for 5 minutes and then automatically attempts to restart. No manual reset is required.

For dual-circuit units — If circuit A is insufficient for the cooling requirements, second-stage thermostat TC2 closes to bring circuit B on line. Circuit B follows the same sequence of operation as circuit A, except a relay delays circuit B compressor start-up for 40 seconds after a call for cooling. Because circuit A has a 12-second delay after TC1 closes, and circuit B has a 40-second delay after TC2 closes, the two compressors cannot start at the same time.

For optional single-circuit units — If compressor A1 is insufficient for the cooling requirements, second-stage thermostat TC2 closes, which opens liquid line solenoid valve LLS-A2. Compressor A2 starts only after the D-D2 contacts in timer TM close (approximately 2¹/₂ minutes after compressor A1 is energized) and the suction pressure is sufficient to close capacity control pressure switches CCPS1 and CCPS2.

NOTE: Liquid line solenoid valves must be field-supplied and installed at the evaporator for both dual-circuit and optional single-circuit units.

Indoor-fan operation — When the fan switch on the thermostat is set for automatic operation (AUTO), the field-supplied indoor-fan contactor (IFC) is cycled with the lead compressor. If the fan switch is set at the continuous position (CONT), the IFC is energized as long as the unit power is on.

Controls (cont)



38AH094-134

Sequence of operation

Units are controlled with electromechanical components. Each refrigeration circuit is operated by an independent timer motor, which controls the circuit's operation. It is possible to maintain partial cooling capability even if one circuit is inoperable.

On a call for cooling, first stage cooling thermostat TC1 closes. Condenser fans and timer motor (TM) are energized. After approximately 7 seconds, timer contacts E-E1 close. Approximately 12 seconds after TC1 closes, normally open timer contacts B-B1 close for 1 second. This energizes compressor A1 contacts CA1 and starts the compressor. At the same time, solenoid drop relays (SDRs) and liquid line solenoid valve no. 1 (LLS-A1) open, and timer relay no. 1 (TR1) is energized. Normally open TR1 contacts close completing a circuit around B-B1 and through compressor A1 contactors to maintain compressor operation when B-B1 contacts open. Contacts E-E1 remain closed for approximately 40 seconds to bypass the oil pressure switch. If oil pressure is insufficient when contacts E-E1 open, the compressor stops, the timer cycles off, and the control circuit locks out. At start-up, timer motor contacts D-D1 are closed, bypassing low-pressure relay contacts LPR-A for 2¹/₂ minutes. This provides a winter start-up feature.

Approximately 2¹/₂ minutes after TC1 closes, timer contacts D-D1 open and D-D2 close. If pressure is insufficient to close the low-pressure switch, the low-pressure switch relay remains open, the compressor shuts down, and the Time Guard control is initiated. Time Guard control prevents the compressor from restarting for 5 minutes after the demand for cooling is satisfied.

Units 38AH094 and 104 — If circuit A operation is insufficient for the cooling requirements, the thermostat second stage TC2 closes to bring circuit B on-line for cooling. This circuit follows the same sequence of operation as the lead circuit, except a 60-second time-delay relay (TDR) delays compressor start-up for 60 seconds after the call for cooling.

Modules 124A, 124B, 134A, and 134B — If compressor A1 is insufficient for the cooling requirements, the thermostat second stage closes, which opens the liquid line solenoid valve LLS-A2. Compressor A2 starts only after D-D2 contacts in the timer close and the suction pressure is sufficient to close the capacity control switches.

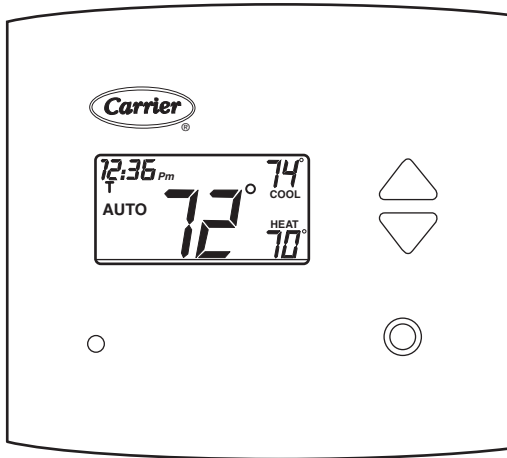
All units — When the fan switch is set for automatic (AUTO) operation, the indoor-fan contactor (IFC) is cycled with the lead compressor. If the fan switch is set for continuous operation (CONT), the IFC is energized as long as the unit power is on.

Restart after stoppage by safety control — The high-pressure switch and the oil pressure switch must be reset manually by breaking the control power supply at any of the following points: Control circuit fuse, fan motor circuit breaker, or thermostat. Restart follows the Time Guard control 5-minute delay. Stoppage by the low-pressure switch results in a Time Guard control 5-minute delay, then the unit attempts to restart.

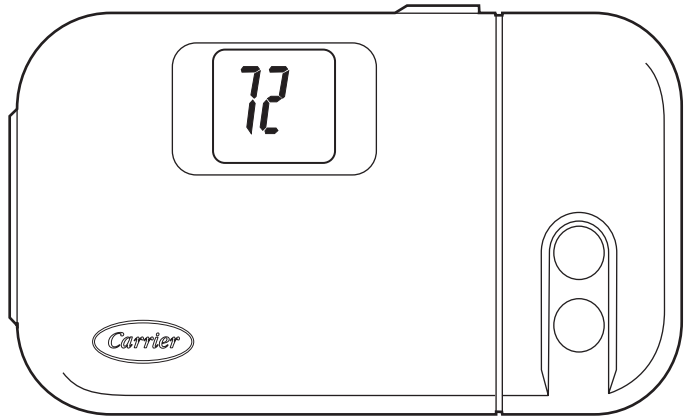
The compressor motor overcurrent protectors are manual-reset circuit breakers. A control circuit reset may also be necessary.

CARRIER CONTROLS

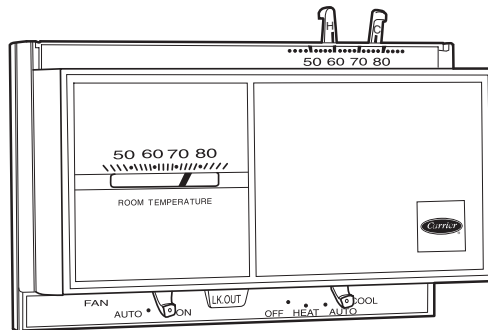
DEBONAIR® COMMERCIAL PROGRAMMABLE THERMOSTAT



COMMERCIAL ELECTRONIC THERMOSTAT



NON-PROGRAMMABLE THERMOSTAT



Application data



Operating limits

Maximum outdoor ambient 60 Hz, 115 F (46 C)
 50 Hz, 125 F (57.7 C)
 Minimum outdoor ambient Refer to Minimum
 Outdoor-Air Operating Temperature
 table, pages 81 and 82.
 Minimum return-air temperature 55 F (12.8 C)
 Maximum return-air temperature 95 F (35 C)
 Range of acceptable saturation
 suction temperature 20 to 50 F (-6.7 to 10 C)
 Maximum discharge temperature 275 F (135 C)
 Minimum discharge superheat 60 F (15.6 C)

NOTES:

1. Select indoor equipment at no less than 300 cfm/ton (40L/s/kW) (nominal condensing unit capacity).
2. The total combined draw of the 2 field-supplied liquid line solenoid valves and one air handler fan contactor must not exceed 90 va. If the specified va must be exceeded, use a remote relay to control the load.
3. Select equipment to match or to be slightly less than peak load.
4. Evaluate oil return when selecting vapor line sizes, especially for partial load conditions.
5. The indoor fan must operate when the outdoor unit is operating.
6. For VAV systems, the total building load is NOT the sum of the individual peak loads. Equipment selected for the sum of the individual peak loads will be oversized.
7. For VAV systems with supply-to-return air recycling, use the equipment room as a return-air plenum.
8. To minimize air recirculation, do not use concentric supply and return grilles.

E-coated coils

E-coated aluminum-fin coils have a flexible and durable epoxy coating uniformly applied to all coil surfaces. Unlike brittle phenolic dip and bake coatings, E-coat provides superior protection with unmatched flexibility, edge coverage, metal adhesion, thermal performance, and most importantly, corrosion resistance.

E-coated coils provide this protection since all coil surfaces are completely encapsulated from environmental contamination. This coating is especially suitable in industrial environments.

E-coated copper-fin coils have the same flexible and durable epoxy coating as E-coated aluminum-fin coils. However, this option combines the natural salt and environmental resistance of all-copper construction with high levels of corrosion protection. This coating is recommended for harsh combinations of coastal and industrial environments.

LIQUID LINE DATA (60 Hz)

| UNIT 38AH | MAXIMUM ALLOWABLE LIQUID LIFT | | LIQUID LINE | | | |
|--------------|-------------------------------------|-----|--------------------------------|-------|----------------------------|-----|
| | | | Max Allowable Pressure Drop | | Max Allowable Temp Loss | |
| | (ft) | (m) | (psi) | (kPa) | (F) | (C) |
| 044 | 69 | 21 | 7 | 48.3 | 2 | 1.1 |
| 054 | 75 | 23 | | | | |
| 064 | 75 | 23 | | | | |
| 074 | 45 | 14 | | | | |
| 084 | 75 | 23 | | | | |
| 094 | 55 | 17 | | | | |
| 104 | 50 | 15 | | | | |
| 124 | 75 | 23 | | | | |
| 134 | 45 | 14 | | | | |

LIQUID LINE DATA (50 Hz)

| UNIT 38AH | MAXIMUM ALLOWABLE LIQUID LIFT | | LIQUID LINE | | | |
|--------------|-------------------------------------|------|--------------------------------|-----|----------------------------|---|
| | | | Max Allowable Pressure Drop | | Max Allowable Temp Loss | |
| | m | ft | kPa | Psi | C | F |
| 044 | 17.5 | 57.5 | 48.3 | 7 | 1.1 | 2 |
| 054 | 23.0 | 75.0 | | | | |
| 064 | 19.8 | 65.0 | | | | |
| 074 | 11.4 | 37.5 | | | | |
| 084 | 23.0 | 75.0 | | | | |
| 094 | 14.0 | 46.0 | | | | |
| 104 | 12.8 | 42.0 | | | | |
| 124 | 19.8 | 65.0 | | | | |
| 134 | 11.4 | 37.5 | | | | |

NOTE: Values shown are for units operating at 7.2 C (45 F) saturated suction at condensing unit and 35 C (95 F) entering outdoor air.

UNLOADING SEQUENCES — STANDARD CONSTANT VOLUME (CV) UNITS*

| UNIT 38AH | CAPACITY/STAGE (%) | |
|--------------|---------------------------------|----------------------------------|
| | Standard Units | Optional Single-Circuit Units |
| | 044 | 100, 75, 50, 25 |
| 054 | 100, 79, 42, 21 | 100, 80, 56, 37 |
| 064 | 100, 84, 48, 32 | 100, 82, 55, 36 |
| 074 | 100, 86, 43, 29 | 100, 81, 57, 38 |
| 084 | 100, 83, 50, 33 | 100, 83, 50, 33 |
| 094 | 100, 85, 55, 44, 33, 22 | — |
| 104 | 100, 91, 74, 65, 47, 38, 26, 17 | — |
| 124 | 100, 91, 77, 68, 50, 41, 27, 18 | — |
| 134 | 100, 90, 76, 66, 45, 37, 25, 16 | — |

*Additional unloading available with field-installed accessory unloader.

UNLOADING SEQUENCES — OPTIONAL VARIABLE AIR VOLUME (VAV) UNITS

| UNIT 38AH | CAPACITY/STAGE (%) | |
|--------------|--|----------------------------------|
| | Standard Dual-Circuit Units | Optional Single-Circuit Units |
| | 044 | 100, 75, 50, 25 |
| 054 | 100, 79, 58, 42, 21 | 100, 80, 61, 56, 37 |
| 064 | 100, 84, 69, 48, 32, 16 | 100, 82, 64, 55, 36, 18 |
| 074 | 100, 86, 71, 43, 29, 14 | 100, 81, 62, 57, 38, 19 |
| 084 | 100, 83, 67, 50, 33, 17 | 100, 83, 67, 50, 33, 17 |
| 094 | 100, 85, 70, 55, 44, 33, 22 | — |
| 104 | 100, 91, 74, 65, 47, 38, 26, 17 | — |
| 124 | 100, 91, 82, 77, 68, 50, 41, 32, 27, 18, 9 | — |
| 134 | 100, 90, 79, 76, 66, 45, 37, 28, 25, 16, 8 | — |

NOTES:

1. Capacities are based on 45 F (7.2 C) saturated suction temperature and 95 F (35 C) outdoor-air temperature.
2. Single-circuit option available for sizes 044-084 only.

Application data (cont)



MINIMUM OUTDOOR-AIR OPERATING TEMPERATURE AND UNLOADING SEQUENCES — 38AH044-084 DUAL-CIRCUIT UNITS

| UNIT 38AH | QUANTITY OF LOADED COMPRESSOR CYLINDERS | | | SYSTEM CAPACITY (%) | MINIMUM OUTDOOR OPERATING TEMP | | | |
|--------------|--|-------|-------|---------------------------|--------------------------------|----|--------------------------|-----|
| | | | | | w/Std Fans | | w/Motormaster® V Control | |
| | Ckt A | Ckt B | Total | | C | F | C | F |
| 044 | 4 | 4 | 8 | 100 | 10.0 | 50 | -28.9 | -20 |
| | 2 | 4 | 6 | 75 | | | | |
| | 4 | 0 | 4 | 50 | | | | |
| | 2 | 0 | 2 | 25 | | | | |
| 054 | 4 | 6 | 10 | 100 | 8.9 | 48 | -28.9 | -20 |
| | 2 | 6 | 8 | 79 | | | | |
| | 2 | 4 | 6* | 58* | | | | |
| | 4 | 0 | 4 | 42 | | | | |
| 064 | 2 | 0 | 2 | 21 | 3.9 | 39 | -28.9 | -20 |
| | 6 | 6 | 12 | 100 | | | | |
| | 4 | 6 | 10 | 84 | | | | |
| | 2 | 6 | 8* | 69* | | | | |
| 074 | 6 | 0 | 6 | 48 | -0.6 | 31 | -28.9 | -20 |
| | 4 | 0 | 4 | 32 | | | | |
| | 2 | 0 | 2* | 16* | | | | |
| | 6 | 6 | 12 | 100 | | | | |
| 084 | 4 | 6 | 10 | 86 | -6.7 | 20 | -28.9 | -20 |
| | 2 | 6 | 8* | 71* | | | | |
| | 6 | 0 | 6 | 43 | | | | |
| | 4 | 0 | 4 | 29 | | | | |
| 084 | 2 | 0 | 2* | 14* | -6.7 | 20 | -28.9 | -20 |
| | 6 | 6 | 12 | 100 | | | | |
| | 4 | 6 | 10 | 83 | | | | |
| | 2 | 6 | 8* | 67* | | | | |
| 084 | 6 | 0 | 6 | 50 | -6.7 | 20 | -28.9 | -20 |
| | 4 | 0 | 4 | 33 | | | | |
| | 2 | 0 | 2* | 17* | | | | |
| | 6 | 6 | 12 | 100 | | | | |

*Requires units with VAV (variable air volume) factory-supplied option.

NOTES:

1. Units have 2 independent refrigeration circuits. Circuit A is lead circuit.

2. Minimum operating temperature is the higher outdoor temperature of the 2 circuits.

3. Minimum outdoor-air operating temperature is based on 32 C (90 F) saturated condensing temperature and 100% capacity.

MINIMUM OUTDOOR-AIR OPERATING TEMPERATURE AND UNLOADING SEQUENCES — 38AH044-084 SINGLE-CIRCUIT UNITS

| UNIT 38AH | QUANTITY OF LOADED CYLINDERS | SYSTEM CAPACITY (%) | MINIMUM OUTDOOR OPERATING TEMP | | | |
|--------------|---------------------------------|---------------------------|--------------------------------|----|-------------------------|-----|
| | | | w/Std Fans | | w/Motormaster V Control | |
| | | | C | F | C | F |
| 044 | 8 | 100 | 8.3 | 47 | -28.9 | -20 |
| | 6 | 75 | | | | |
| | 4 | 50 | | | | |
| | 2 | 25 | | | | |
| 054 | 10 | 100 | 5.0 | 41 | -28.9 | -20 |
| | 8 | 80 | | | | |
| | 6* | 61* | | | | |
| | 6 | 56 | | | | |
| 064 | 4 | 37 | 3.3 | 38 | -28.9 | -20 |
| | 12 | 100 | | | | |
| | 10 | 82 | | | | |
| | 8* | 64* | | | | |
| 074 | 6 | 55 | -5.6 | 22 | -28.9 | -20 |
| | 4 | 36 | | | | |
| | 2* | 18* | | | | |
| | 12 | 100 | | | | |
| 084 | 10 | 81 | -6.7 | 20 | -28.9 | -20 |
| | 8* | 62* | | | | |
| | 6 | 57 | | | | |
| | 4 | 38 | | | | |
| 084 | 2* | 19* | -6.7 | 20 | -28.9 | -20 |
| | 12 | 100 | | | | |
| | 10 | 83 | | | | |
| | 8* | 67* | | | | |
| 084 | 6 | 50 | -6.7 | 20 | -28.9 | -20 |
| | 4 | 33 | | | | |
| | 2* | 17* | | | | |
| | 12 | 100 | | | | |

*Requires VAV (variable air volume) factory-supplied option or accessory unloader.

NOTE: Minimum outdoor-air operating temperature is based on 32 C (90 F) saturated condensing temperature and 100% capacity.



**MINIMUM OUTDOOR-AIR OPERATING TEMPERATURE AND UNLOADING SEQUENCES —
38AH094-134 DUAL CIRCUIT UNITS**

| UNIT 38AH | QUANTITY OF LOADED COMPRESSOR CYLINDERS | | | SYSTEM CAPACITY (%) | MINIMUM OUTDOOR OPERATING TEMP | | | | | |
|--------------|--|-------|-------|---------------------------|--------------------------------|----|-------|----|-----------------------------|-----|
| | Ckt A | Ckt B | Total | | W/Std Fans | | | | w/Motormaster® V Control | |
| | | | | | Ckt A | | Ckt B | | C | F |
| | | | | | C | F | C | F | | |
| 094 | 10 | 6 | 16 | 100 | -13.9 | 7 | -3.9 | 25 | -28.9 | -20 |
| | 10 | 4 | 14 | 85 | | | | | | |
| | 10 | 2* | 12 | 70* | | | | | | |
| | 10 | 0 | 10 | 55 | | | | | | |
| | 8 | 0 | 8 | 44 | | | | | | |
| | 6 | 0 | 6 | 33 | | | | | | |
| | 4 | 0 | 4 | 22 | | | | | | |
| 104 | 10 | 12 | 22 | 100 | -10.0 | 14 | -15.0 | 5 | -28.9 | -20 |
| | 10 | 10 | 20 | 91 | | | | | | |
| | 10 | 8† | 18 | 82† | | | | | | |
| | 10 | 6 | 16 | 74 | | | | | | |
| | 10 | 4 | 14 | 65 | | | | | | |
| | 10 | 2† | 12 | 56† | | | | | | |
| | 10 | 0 | 10 | 47 | | | | | | |
| | 8 | 0 | 8 | 38 | | | | | | |
| | 6 | 0 | 6 | 26 | | | | | | |
| | 4 | 0 | 4 | 17 | | | | | | |
| 2† | 0 | 2 | 9† | | | | | | | |
| 124 | 12 | 12 | 24 | 100 | 3.3 | 38 | 3.3 | 38 | -28.9 | -20 |
| | 12 | 10 | 22 | 91 | | | | | | |
| | 12 | 8† | 20 | 82* | | | | | | |
| | 12 | 6 | 18 | 77 | | | | | | |
| | 12 | 4 | 16 | 68 | | | | | | |
| | 12 | 2† | 14 | 59† | | | | | | |
| | 12 | 0 | 12 | 50 | | | | | | |
| | 10 | 0 | 10 | 41 | | | | | | |
| | 8* | 0 | 8 | 32* | | | | | | |
| | 6 | 0 | 6 | 27 | | | | | | |
| 4 | 0 | 4 | 18 | | | | | | | |
| 2* | 0 | 2 | 9* | | | | | | | |
| 134 | 12 | 12 | 24 | 100 | 3.3 | 38 | -5.6 | 22 | -28.9 | -20 |
| | 12 | 10 | 22 | 90 | | | | | | |
| | 12 | 8 | 20 | 79* | | | | | | |
| | 12 | 6 | 18 | 76 | | | | | | |
| | 12 | 4 | 16 | 66 | | | | | | |
| | 12 | 2† | 14 | 56† | | | | | | |
| | 12 | 0 | 12 | 45 | | | | | | |
| | 10 | 0 | 10 | 37 | | | | | | |
| | 8 | 0 | 8 | 28* | | | | | | |
| | 6 | 0 | 6 | 25 | | | | | | |
| 4 | 0 | 4 | 16 | | | | | | | |
| 2* | 0 | 2 | 8* | | | | | | | |

*Requires VAV (variable air volume) unit or accessory unloader(s) field installed on circuit lead compressor. Lead compressor is identified in Physical Data section, pages 6-13.

†Requires field-installed accessory unloader on circuit lead compressor. Lead compressor is identified in Physical Data section, pages 6-13.

NOTES:

1. Temperatures calculated with the minimum number of fans operating per circuit.
2. For 38AH124 and 134 units, circuit A is Module 38AH124A or 134A. Circuit B is Module 38AH124B or 134B.
3. Minimum outdoor-air operating temperature is based on 32 C (90 F) saturated condensing temperature and 100% capacity.

Application data (cont)



REFRIGERANT PIPING REQUIREMENTS 38AH044-084 DUAL-CIRCUIT UNITS, 60 Hz

| UNIT 38AH | | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|-----------|-------|--|------|---------------------|------|----------------------|------|-----------------------|-------|------------------------|-------|------------------------|-------|
| | | 15-25 (4.6-7.6) | | 25-50 (7.6-15.2) | | 50-75 (15.2-22.9) | | 75-100 (22.9-30.5) | | 100-150 (30.5-45.7) | | 150-200 (45.7-61.0) | |
| | | L | S | L | S | L | S | L | S | L | S | L | S |
| 044 | Ckt A | 5/8 | 15/8 | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 |
| | Ckt B | 5/8 | 15/8 | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 |
| 054 | Ckt A | 5/8 | 15/8 | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 |
| | Ckt B | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8* |
| 064 | Ckt A | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8† |
| | Ckt B | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8 | 11/8 | 25/8 |
| 074 | Ckt A | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8† | 11/8 | 25/8† |
| | Ckt B | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8 | 13/8 | 25/8 | 13/8 | 25/8 |
| 084 | Ckt A | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8† | 13/8 | 25/8† | 13/8 | 25/8† |
| | Ckt B | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8 | 13/8 | 25/8 | 13/8 | 25/8 |

LEGEND

- L** — Liquid Line
- S** — Suction Line
- VAV** — Variable Air Volume

*Double suction riser required on units with field installed unloader on circuit B compressor if condensing unit is elevated above evaporator.
†Double suction riser required on units with field installed unloader on circuit A compressor if condensing unit is elevated above evaporator.

NOTES:

1. Addition of 2 unloaders to circuit B compressor is not recommended.
2. Piping sizes are based on unit operation above 40 F (4.4 C) saturated suction temperature (SST). When operating below 40 F (4.4 C), refer to Carrier System Design Manual, E20-II® piping design program, or ASHRAE Handbook to select proper line sizes.
3. Pipe sizes are based on the total linear length shown for each column, plus a 50% allowance for fittings.
4. Suction and liquid line sizing is based on pressure drop equivalent to 2 F (1.1 C) at nominal rating conditions. Higher pressure drop design

criteria may allow selection of smaller pipe sizes, but at a penalty of decreased system capacity and efficiency.

5. Double suction risers may be required if condensing unit is elevated above the evaporator. See footnotes and double suction riser table below.
6. Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.
7. All pipe sizes are OD inches. Equivalent sizes in millimeters follow:

| in. | mm |
|------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 11/8 | 28.6 |
| 13/8 | 34.9 |
| 15/8 | 41.3 |
| 21/8 | 54.0 |
| 25/8 | 66.7 |
| 31/8 | 79.4 |

38AH054-084 DUAL-CIRCUIT UNITS DOUBLE SUCTION RISER, 60 Hz

| UNIT 38AH | | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|-----------|-------|--|---|---|-----------------------|------|------|------------------------|------|------|------------------------|------|------|
| | | 50-75 (15.2-22.9) | | | 75-100 (22.9-30.5) | | | 100-150 (30.5-45.7) | | | 150-200 (45.7-61.0) | | |
| | | A | B | C | A | B | C | A | B | C | A | B | C |
| 054 | Ckt A | — | — | — | — | — | — | — | — | — | — | — | — |
| | Ckt B | — | — | — | — | — | — | — | — | 15/8 | 21/8 | 25/8 | — |
| 064 | Ckt A | — | — | — | — | — | — | — | — | — | — | — | — |
| | Ckt B | — | — | — | — | — | — | — | — | 15/8 | 21/8 | 25/8 | — |
| 074 | Ckt A | — | — | — | — | — | — | 15/8 | 21/8 | 25/8 | 15/8 | 21/8 | 25/8 |
| | Ckt B | — | — | — | — | — | — | — | — | — | — | — | — |
| 084 | Ckt A | — | — | — | 15/8 | 21/8 | 25/8 | 15/8 | 21/8 | 25/8 | 15/8 | 21/8 | 25/8 |
| | Ckt B | — | — | — | — | — | — | — | — | — | — | — | — |

LEGEND

- — Not Required
- Pipe A** — Suction Riser Without Trap
- Pipe B** — Suction Riser With Trap
- Pipe C** — Suction Line to Condensing Unit

NOTES:

1. See Refrigerant Piping Requirements table at top of page to determine need for double suction risers.
2. Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.
3. Suction and liquid line sizing is based on pressure drop equivalent to 2 F (1.1 C) at nominal rating conditions. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.

4. Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.
5. All pipe sizes are OD inches. Equivalent sizes in millimeters follow:

| in. | mm |
|------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 11/8 | 28.6 |
| 13/8 | 34.9 |
| 15/8 | 41.3 |
| 21/8 | 54.0 |
| 25/8 | 66.7 |
| 31/8 | 79.4 |



REFRIGERANT PIPING REQUIREMENTS (cont)
38AH044-084 OPTIONAL SINGLE-CIRCUIT UNITS; 38AH124,134
MODULAR UNITS (DUAL-CIRCUIT), 60 Hz

| UNIT 38AH | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|---|--|----------|---------------------|----------|----------------------|----------|-----------------------|----------|------------------------|----------|------------------------|----------|
| | 15-25 (4.6-7.6) | | 25-50 (7.6-15.2) | | 50-75 (15.2-22.9) | | 75-100 (22.9-30.5) | | 100-150 (30.5-45.7) | | 150-200 (45.7-61.0) | |
| | L | S | L | S | L | S | L | S | L | S | L | S |
| 044 | 7/8 | 2 1/8 | 7/8 | 2 1/8 | 1 1/8 | 2 5/8†** | 1 1/8 | 2 5/8†** | 1 3/8 | 2 5/8†** | 1 3/8 | 3 1/8†** |
| 054 | 7/8 | 2 1/8 | 1 1/8 | 2 5/8†** | 1 1/8 | 2 5/8†** | 1 1/8 | 2 5/8†** | 1 3/8 | 3 1/8†** | 1 3/8 | 3 1/8†** |
| 064; Modules 124A, 124B,134A | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8†** | 1 1/8 | 2 5/8†** | 1 3/8 | 3 1/8†** | 1 3/8 | 3 1/8†** | 1 3/8 | 3 1/8†** |
| 074; Module 134B | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8†** | 1 3/8 | 3 1/8†** | 1 3/8 | 3 1/8†** | 1 3/8 | 3 1/8†** | 1 5/8 | 3 5/8†** |
| 084 | 1 1/8 | 2 5/8†** | 1 1/8 | 2 5/8†** | 1 3/8 | 3 1/8†** | 1 3/8 | 3 1/8†** | 1 5/8 | 3 5/8†** | 1 5/8 | 3 5/8†** |

LEGEND

- CV** — Constant Volume
- L** — Liquid Line
- S** — Suction Line
- VAV** — Variable Air Volume

*Standard CV unit with 1 unloader on circuit A and 1 field-installed unloader on circuit B; double suction riser required.
†Units with factory-installed VAV option or field-installed accessory unloader — 2 unloaders on circuit A, and 1 unloader on circuit B; double suction riser required.
**Units with 2 field-installed unloaders on circuit A and 2 on circuit B; double suction riser required.

NOTES:

1. It is possible to install 2 unloaders on circuit B, but not recommended.
2. Double risers may be required if condensing unit is elevated above evaporator. See footnotes and double suction riser table below.
3. Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.

4. Suction line sizing is based on 2° F (1.1 C) pressure drop at nominal rating conditions. Liquid line sizing is based on 2° F (1.1 C) pressure drop. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.
5. Suction line riser selections are based on using maximum possible unloaders.
6. Refer to Carrier System Design Manual or to E20-II® design programs for further information on selecting pipe sizes for split systems.
7. All pipe sizes are OD inches. Equivalent sizes in millimeters follow:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 1 3/8 | 34.9 |
| 1 5/8 | 41.3 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |
| 3 1/8 | 79.4 |

**38AH044-084 OPTIONAL SINGLE-CIRCUIT UNITS;
38AH124,134 MODULAR UNITS (DUAL-CIRCUIT) —
DOUBLE SUCTION RISER, 60 Hz**

| UNIT 38AH | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | | | | |
|--|--|-------|-------|----------------------|-------|-------|-----------------------|-------|-------|------------------------|-------|-------|------------------------|-------|-------|
| | 15-50 (4.6-15.2) | | | 50-75 (15.2-22.9) | | | 75-100 (22.9-30.5) | | | 100-150 (30.5-45.7) | | | 150-200 (45.7-61.0) | | |
| | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C |
| 044 | — | — | — | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| 054 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| 064 Modules 124A, 124B,134A | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| 074; Module 134B | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 | 2 1/8 | 3 1/8 | 3 5/8 |
| 084 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 | 2 1/8 | 3 1/8 | 3 5/8 | 2 1/8 | 3 1/8 | 3 5/8 |

LEGEND

- — Not Required
- Pipe A** — Suction Riser Without Trap
- Pipe B** — Suction Riser With Trap
- Pipe C** — Suction Line to Condensing Unit

NOTES:

1. See Refrigerant Piping Requirements table at top of page to determine need for double suction risers.
2. Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.
3. Suction line sizing is based on 2° F (1.1 C) pressure drop at nominal rating conditions. Liquid line sizing is based on 2° F (1.1 C) pressure drop. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.

4. Suction line riser selections are based on using maximum possible unloaders.
5. Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.
6. All pipe sizes are OD inches. Equivalent sizes in millimeters follow:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 1 3/8 | 34.9 |
| 1 5/8 | 41.3 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |
| 3 1/8 | 79.4 |

Application data (cont)



REFRIGERANT PIPING REQUIREMENTS (cont) 38AH094-104 DUAL-CIRCUIT UNITS, 60 Hz

| UNIT 38AH | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|--------------|--|-------|---------------------|-------|----------------------|----------|-----------------------|----------|------------------------|-----------|------------------------|-----------|
| | 15-25 (4.6-7.6) | | 25-50 (7.6-15.2) | | 50-75 (15.2-22.9) | | 75-100 (22.9-30.5) | | 100-150 (30.5-45.7) | | 150-200 (45.7-61.0) | |
| | L | S | L | S | L | S | L | S | L | S | L | S |
| 094 Ckt A | 7/8 | 2 1/8 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8†** | 1 1/8 | 2 5/8†** | 1 3/8 | 2 5/8†** | 1 3/8 | 3 1/8*†** |
| 094 Ckt B | 7/8 | 2 1/8 | 7/8 | 2 1/8 | 1 1/8 | 2 1/8** | 1 1/8 | 2 5/8** | 1 1/8 | 2 5/8** | 1 3/8 | 2 5/8** |
| 104 Ckt A | 7/8 | 2 1/8 | 7/8 | 2 1/8 | 1 1/8 | 2 5/8† | 1 1/8 | 2 5/8† | 1 1/8 | 2 5/8† | 1 3/8 | 3 1/8*†** |
| 104 Ckt B | 7/8 | 2 1/8 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8** | 1 1/8 | 2 5/8** | 1 3/8 | 3 1/8*†** | 1 3/8 | 3 1/8*†** |

LEGEND

- CV — Constant Volume
- L — Liquid Line
- S — Suction Line
- VAV — Variable Air Volume

*Standard CV unit with 1 unloader on circuit A and 1 unloader on circuit B; double suction riser required.

†Units with factory-installed VAV option or field-installed accessory unloader — 2 unloaders on circuit A, and 1 unloader on circuit B; double suction riser required.

**Units with 2 field-installed unloaders on circuit A and 2 on circuit B; double suction riser required.

NOTES:

1. It is possible to install 2 unloaders on circuit B, but not recommended.
2. Double risers may be required if condensing unit is elevated above evaporator. See footnotes and double suction riser table below.
3. Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.

4. Suction line sizing is based on 2° F (1.1 C) pressure drop at nominal rating conditions. Liquid line sizing is based on 2° F (1.1 C) pressure drop. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.
5. Suction line riser selections are based on using maximum possible unloaders.
6. Refer to Carrier System Design Manual or to E20-II® design programs for further information on selecting pipe sizes for split systems.
7. All pipe sizes are OD inches. Equivalent sizes in millimeters follow:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 1 3/8 | 34.9 |
| 1 5/8 | 41.3 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |
| 3 1/8 | 79.4 |

38AH094-104 DUAL-CIRCUIT UNITS, DOUBLE SUCTION RISER, 60 Hz

| UNIT 38AH | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | | | | |
|--------------|--|---|---|----------------------|-------|-------|-----------------------|-------|-------|------------------------|-------|-------|------------------------|-------|-------|
| | 25-50 (7.6-15.2) | | | 50-75 (15.2-22.9) | | | 75-100 (22.9-30.5) | | | 100-150 (30.5-45.7) | | | 150-200 (45.7-61.0) | | |
| | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C |
| 094 Ckt A | — | — | — | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| 094 Ckt B | — | — | — | 1 3/8 | 1 5/8 | 2 1/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 |
| 104 Ckt A | — | — | — | 1 3/8 | 2 1/8 | 2 5/8 | 1 3/8 | 2 1/8 | 2 5/8 | 1 3/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| 104 Ckt B | — | — | — | 1 3/8 | 2 1/8 | 2 5/8 | 1 3/8 | 2 1/8 | 2 5/8 | 1 3/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 |

LEGEND

- — Not Required
- Pipe A — Suction Riser Without Trap
- Pipe B — Suction Riser With Trap
- Pipe C — Suction Line to Condensing Unit

NOTES:

1. See Refrigerant Piping Requirements table at top of page to determine need for double suction risers.
2. Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.
3. Suction line sizing is based on 2° F (1.1 C) pressure drop at nominal rating conditions. Liquid line sizing is based on 2° F (1.1 C) pressure drop. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.
4. Suction line riser selections are based on using maximum possible unloaders.
5. Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.

6. All pipe sizes are OD inches. Equivalent sizes in millimeters follow:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 1 3/8 | 34.9 |
| 1 5/8 | 41.3 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |
| 3 1/8 | 79.4 |



REFRIGERANT PIPING REQUIREMENTS 38AH044-084 DUAL-CIRCUIT UNITS, 50 Hz

| UNIT 38AH | | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|--------------|-------|--|------|---------------------|------|----------------------|-------|-----------------------|-------|------------------------|-------|------------------------|--------|
| | | 15-25 (4.6-7.6) | | 25-50 (7.6-15.2) | | 50-75 (15.2-22.9) | | 75-100 (22.9-30.5) | | 100-150 (30.5-45.7) | | 150-200 (45.7-61.0) | |
| | | L | S | L | S | L | S | L | S | L | S | L | S |
| 044 | Ckt A | 5/8 | 13/8 | 7/8 | 15/8 | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 |
| | Ckt B | 5/8 | 13/8 | 7/8 | 15/8 | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 |
| 054 | Ckt A | 5/8 | 13/8 | 7/8 | 15/8 | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 |
| | Ckt B | 7/8 | 15/8 | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8* |
| 064 | Ckt A | 7/8 | 15/8 | 7/8 | 15/8 | 7/8 | 21/8† | 7/8 | 21/8† | 11/8 | 21/8† | 11/8 | 25/8** |
| | Ckt B | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 25/8* | 11/8 | 25/8* |
| 074 | Ckt A | 7/8 | 15/8 | 7/8 | 21/8 | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 25/8† | 11/8 | 25/8† |
| | Ckt B | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8 | 11/8 | 25/8 | 11/8 | 25/8 |
| 084 | Ckt A | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8† | 11/8 | 25/8† | 11/8 | 25/8† |
| | Ckt B | 7/8 | 21/8 | 7/8 | 21/8 | 11/8 | 21/8 | 11/8 | 25/8 | 11/8 | 25/8 | 11/8 | 25/8 |

LEGEND

L — Liquid Line
S — Suction Line

*Double suction riser required on units with field-installed unloader on circuit B compressor if condensing unit is elevated above evaporator.
†Double suction riser required on units with field-installed unloader on circuit A compressor if condensing unit is elevated above evaporator.
**Double suction riser required on all unit configurations if condensing unit is elevated above evaporator.

NOTES:

- Addition of 2 unloaders to circuit B compressor is not recommended.
- Piping sizes are based on unit operation above 40 F (4.4 C) saturated suction temperature (SST). When operating below 40 F (4.4 C), refer to Carrier System Design Manual, E20-II® piping design program, or ASHRAE Handbook to select proper line sizes.
- Pipe sizes are based on the total linear length shown for each column, plus a 50% allowance for fittings.

- Suction and liquid line sizing is based on pressure drop equivalent to 2 F (1.1 C) at nominal rating conditions. Higher pressure drop design criteria may allow selection of smaller pipe sizes, but at a penalty of decreased system capacity and efficiency.
- Double suction risers may be required if condensing unit is elevated above the evaporator. See footnotes and double suction riser table below.
- Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.
- All pipe sizes are OD inches. Equivalent sizes in millimeters follow:

| in. | mm |
|------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 11/8 | 28.6 |
| 13/8 | 34.9 |
| 15/8 | 41.3 |
| 21/8 | 54.0 |
| 25/8 | 66.7 |
| 31/8 | 79.4 |

REFRIGERANT PIPING REQUIREMENTS FOR DOUBLE SUCTION RISERS, 38AH054-084 DUAL-CIRCUIT UNITS, 50 Hz

| UNIT 38AH | | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|--------------|-------|--|------|------|-----------------------|------|------|------------------------|------|------|------------------------|------|------|
| | | 50-75 (15.2-22.9) | | | 75-100 (22.9-30.5) | | | 100-150 (30.5-45.7) | | | 150-200 (45.7-61.0) | | |
| | | A | B | C | A | B | C | A | B | C | A | B | C |
| 054 | Ckt A | — | — | — | — | — | — | — | — | — | — | — | — |
| | Ckt B | — | — | — | — | — | — | — | — | — | 15/8 | 21/8 | 25/8 |
| 064 | Ckt A | 13/8 | 15/8 | 21/8 | 13/8 | 15/8 | 21/8 | 15/8 | 15/8 | 21/8 | 15/8 | 21/8 | 25/8 |
| | Ckt B | — | — | — | — | — | — | 15/8 | 21/8 | 25/8 | 15/8 | 21/8 | 25/8 |
| 074 | Ckt A | — | — | — | — | — | — | 15/8 | 21/8 | 25/8 | 15/8 | 21/8 | 25/8 |
| | Ckt B | — | — | — | — | — | — | — | — | — | — | — | — |
| 084 | Ckt A | — | — | — | 15/8 | 21/8 | 25/8 | 15/8 | 21/8 | 25/8 | 15/8 | 21/8 | 25/8 |
| | Ckt B | — | — | — | — | — | — | — | — | — | — | — | — |

LEGEND

— Not Required
Pipe A — Suction Riser Without Trap
Pipe B — Suction Riser With Trap
Pipe C — Suction Line to Condensing Unit

NOTES:

- See Refrigerant Piping Requirements table at top of page to determine need for double suction risers.
- Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.
- Suction and liquid line sizing is based on pressure drop equivalent to 2 F (1.1 C) at nominal rating conditions. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.

- Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.
- All pipe sizes are OD inches. Equivalent sizes in millimeters follows:

| in. | mm |
|------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 11/8 | 28.6 |
| 13/8 | 34.9 |
| 15/8 | 41.3 |
| 21/8 | 54.0 |
| 25/8 | 66.7 |
| 31/8 | 79.4 |

Application data (cont)



38AH044-084 OPTIONAL SINGLE-CIRCUIT UNITS; 38AH124,134 MODULAR UNITS (DUAL-CIRCUIT), 50 Hz

| UNIT 38AH | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|-------------------------------------|--|-------|---------------------|--------|----------------------|--------|-----------------------|--------|------------------------|--------|------------------------|--------|
| | 15-20 (4.6-6.1) | | 20-50 (6.1-15.2) | | 50-75 (15.2-22.9) | | 75-100 (22.9-30.5) | | 100-150 (30.5-45.7) | | 150-200 (45.7-61.0) | |
| | L | S | L | S | L | S | L | S | L | S | L | S |
| 044 | 7/8 | 2 1/8 | 7/8 | 2 1/8 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8* | 1 1/8 | 2 5/8* | 1 3/8 | 2 5/8* |
| 054 | 7/8 | 2 1/8 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8* | 1 1/8 | 2 5/8* | 1 1/8 | 2 5/8* | 1 3/8 | 3 1/8* |
| 064; Modules 124A, 124B, 134A | 7/8 | 2 1/8 | 1 1/8 | 2 5/8† | 1 1/8 | 2 5/8† | 1 1/8 | 2 5/8† | 1 3/8 | 3 1/8* | 1 3/8 | 3 1/8* |
| 074; Module 134B | 7/8 | 2 1/8 | 1 1/8 | 2 5/8† | 1 1/8 | 2 5/8† | 1 1/8 | 3 1/8* | 1 3/8 | 3 1/8* | 1 3/8 | 3 1/8* |
| 084 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8† | 1 3/8 | 3 1/8* | 1 1/8 | 3 1/8* | 1 3/8 | 3 1/8* | 1 5/8 | 3 5/8* |

LEGEND

- CV — Constant Volume
- L — Liquid Line
- S — Suction Line
- VAV — Variable Air Volume

*Double suction riser required on all units configurations if condensing unit is elevated above evaporator.

†Double suction riser required on units with factory installed VAV option or CV units with additional field installed unloader on circuit A1 (lead) compressor if condensing unit is elevated above evaporator.

NOTES:

- Double risers are required if condensing unit is elevated above evaporator. See footnotes and double suction riser table below.
- Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.
- Suction line sizing is based on 1.1 C (2 F) pressure drop at nominal rating conditions. Liquid line sizing is based on 1.1 C (2 F) pressure drop. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.

- Suction line sizing is based on using the same diameter tube from the evaporator riser outlet to the condensing unit.
- Suction line riser selections are based on using maximum possible unloaders.
- Refer to Carrier System Design Manual or to E20-II® design programs for further information on selecting pipe sizes for split systems.
- All pipe sizes are OD inches; equivalent sizes in millimeters follow:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 1 3/8 | 34.9 |
| 1 5/8 | 41.3 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |
| 3 1/8 | 79.4 |
| 3 5/8 | 92.1 |

38AH044-084 OPTIONAL SINGLE-CIRCUIT UNITS; 38AH124,134 MODULAR UNITS (DUAL-CIRCUIT) — DOUBLE SUCTION RISER, 50 Hz

| UNIT 38AH | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|---|---|---------------------|-------|-------|----------------------|-------|-------|-----------------------|-------|-------|------------------------|-------|-------|------------------------|-------|-------|
| | 15-20 (4.6-6.1) | | | 20-50 (6.1-15.2) | | | 50-75 (15.2-22.9) | | | 75-100 (22.9-30.5) | | | 100-150 (30.5-45.7) | | | 150-200 (45.7-61.0) | | |
| | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C |
| 044 | — | — | — | — | — | — | — | — | — | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| 054 | — | — | — | — | — | — | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| 064; Modules 124A, 124B, 134A | — | — | — | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| 074; Module 134B | — | — | — | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 3 1/8 | 3 5/8 |
| 084 | — | — | — | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 2 5/8 | 3 1/8 | 1 5/8 | 3 1/8 | 3 5/8 |

LEGEND

- — Not Required
- Pipe A — Suction Riser Without Trap
- Pipe B — Suction Riser With Trap
- Pipe C — Suction Line to Condensing Unit

NOTES:

- See Refrigerant Piping Requirements table at top of page to determine need for double suction risers.
- Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.
- Suction line sizing is based on 1.1 C (2 F) pressure drop at nominal rating conditions. Liquid line sizing is based on 1.1 C (2 F) pressure drop. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.
- Suction line sizing is based on using the same diameter tube from the evaporator riser outlet to the condensing unit.

- Suction line riser selections are based on using maximum possible unloaders.
- Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.
- All pipe sizes are OD inches; equivalent sizes in millimeters follow:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 1 3/8 | 34.9 |
| 1 5/8 | 41.3 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |
| 3 1/8 | 79.4 |
| 3 5/8 | 92.1 |



REFRIGERANT PIPING REQUIREMENTS 38AH094,104 DUAL-CIRCUIT UNITS, 50 Hz

| UNIT 38AH | | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|--------------|-------|--|-------|---------------------|-------|----------------------|---------|-----------------------|---------|------------------------|---------|------------------------|---------|
| | | 15-25 (4.6-7.6) | | 25-50 (7.6-15.2) | | 50-75 (15.2-22.9) | | 75-100 (22.9-30.5) | | 100-150 (30.5-45.7) | | 150-200 (45.7-61.0) | |
| | | L | S | L | S | L | S | L | S | L | S | L | S |
| 094 | Ckt A | 7/8 | 2 1/8 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8** | 1 1/8 | 2 1/8** | 1 1/8 | 2 5/8** | 1 3/8 | 3 1/8** |
| | Ckt B | 7/8 | 2 1/8 | 7/8 | 2 1/8 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8† | 1 1/8 | 2 5/8† | 1 1/8 | 2 5/8† |
| 104 | Ckt A | 7/8 | 2 1/8 | 7/8 | 2 1/8 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8** | 1 1/8 | 2 5/8** | 1 3/8 | 3 1/8** |
| | Ckt B | 7/8 | 2 1/8 | 1 1/8 | 2 1/8 | 1 1/8 | 2 5/8 | 1 1/8 | 2 5/8 | 1 3/8 | 2 5/8 | 1 3/8 | 3 1/8** |

LEGEND

L — Liquid Line
S — Suction Line

*Double suction riser required on units with field-installed unloader on circuit B compressor if condensing unit is elevated above evaporator.

†Double suction riser required on units with field-installed unloader on circuit A compressor if condensing unit is elevated above evaporator.

**Double suction riser required on all unit configurations if condensing unit is elevated above evaporator.

NOTES:

- Double risers are required if condensing unit is elevated above evaporator. See footnotes and double suction riser table below.
- Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.
- Suction line sizing is based on 1.1 C (2 F) pressure drop at nominal rating conditions. Liquid line sizing is based on 1.1 C (2 F) pressure drop. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.

- Suction line sizing is based on using the same diameter tube from the evaporator riser outlet to the condensing unit.
- Suction line riser selections are based on using maximum possible unloaders.
- Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.
- All pipe sizes are OD inches; equivalent sizes in millimeters follow:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 1 3/8 | 34.9 |
| 1 5/8 | 41.3 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |
| 3 1/8 | 79.4 |
| 3 5/8 | 92.1 |

38AH094,104 DUAL-CIRCUIT UNITS, DOUBLE SUCTION RISER, 50 Hz

| UNIT 38AH | | TOTAL LINEAR LENGTH OF INTERCONNECTING PIPE — FT (M) | | | | | | | | | | | |
|--------------|-------|--|-------|-------|-----------------------|-------|-------|------------------------|-------|-------|------------------------|-------|-------|
| | | 50-75 (15.2-22.9) | | | 75-100 (22.9-30.5) | | | 100-150 (30.5-45.7) | | | 150-200 (45.7-61.0) | | |
| | | A | B | C | A | B | C | A | B | C | A | B | C |
| 094 | Ckt A | 1 3/8 | 2 1/8 | 2 5/8 | 1 3/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| | Ckt B | — | — | — | 1 3/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 |
| 104 | Ckt A | — | — | — | 1 3/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 1/8 | 2 5/8 | 1 5/8 | 2 5/8 | 3 1/8 |
| | Ckt B | — | — | — | — | — | — | — | — | — | 1 5/8 | 2 5/8 | 3 1/8 |

LEGEND

Pipe A — Suction Riser Without Trap
Pipe B — Suction Riser With Trap
Pipe C — Suction Line to Condensing Unit

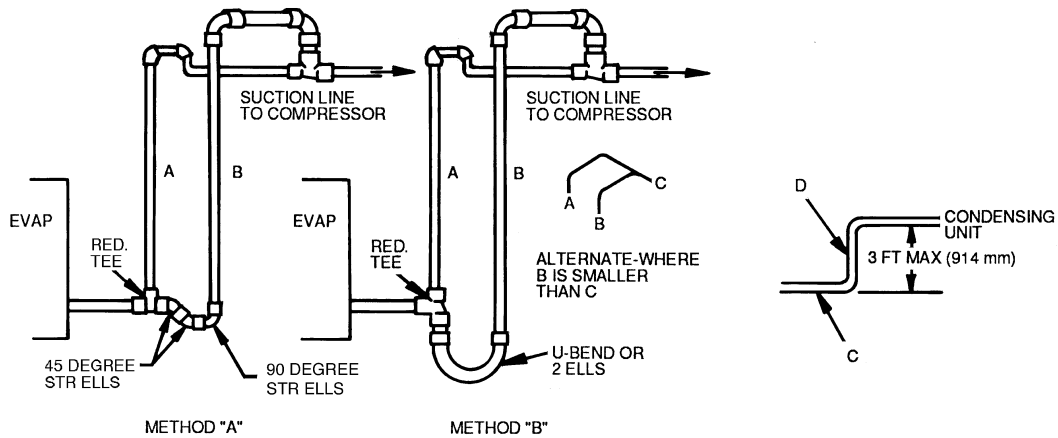
NOTES:

- See Refrigerant Piping Requirements table at top of page to determine need for double suction risers.
- Pipe sizes are based on the total linear length, shown for each column, plus a 50% allowance for fittings.
- Suction line sizing is based on 1.1 C (2 F) pressure drop at nominal rating conditions. Liquid line sizing is based on 1.1 C (2 F) pressure drop. Higher design pressure drop criteria may allow selection of smaller pipe sizes but at a penalty of decreased system capacity and efficiency.
- Suction line sizing is based on using the same diameter tube from the evaporator riser outlet to the condensing unit.

- Suction line riser selections are based on using maximum possible unloaders.
- Refer to Carrier System Design Manual or to E20-II design programs for further information on selecting pipe sizes for split systems.
- All pipe sizes are OD inches; equivalent sizes in millimeters follow:

| in. | mm |
|-------|------|
| 5/8 | 15.9 |
| 7/8 | 22.2 |
| 1 1/8 | 28.6 |
| 1 3/8 | 34.9 |
| 1 5/8 | 41.3 |
| 2 1/8 | 54.0 |
| 2 5/8 | 66.7 |
| 3 1/8 | 79.4 |
| 3 5/8 | 92.1 |

REFRIGERANT PIPING REQUIREMENTS DOUBLE SUCTION RISER CONSTRUCTION



LEGEND

- A** — Pipe A, Suction Riser, Lower Trap
- B** — Pipe B, Suction Riser with Trap
- C** — Suction Line to Condensing Unit
- D** — Pipe D, Suction Riser Short Lift
- RED.** — Reducer
- STR** — Street

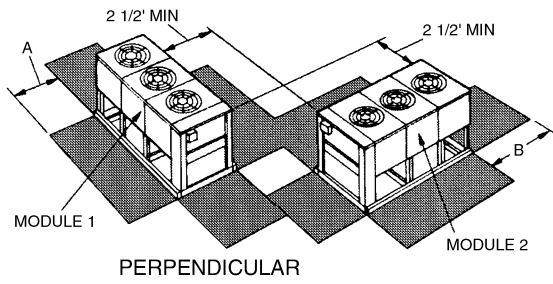
NOTE: Short riser, pipe D, is used when routing suction line to condensing unit connection. See table below:

| UNIT 38AH | PIPE D DIAMETER* | | |
|-----------|-------------------------------|-------------------------------|-------------------------------|
| | Dual Circuit | | Single Circuit |
| | A | B | |
| 044 | 1 ⁵ / ₈ | 1 ⁵ / ₈ | 2 ¹ / ₈ |
| 054 | 1 ⁵ / ₈ | 1 ⁵ / ₈ | 2 ¹ / ₈ |
| 064 | 1 ⁵ / ₈ | 2 ¹ / ₈ | 2 ¹ / ₈ |
| 074 | 2 ¹ / ₈ | 2 ¹ / ₈ | 2 ¹ / ₈ |
| 084 | 2 ¹ / ₈ | 2 ¹ / ₈ | 2 ⁵ / ₈ |
| 094 | 2 ¹ / ₈ | 2 ¹ / ₈ | — |
| 104 | 2 ¹ / ₈ | 2 ¹ / ₈ | — |
| 124A,B | 2 ¹ / ₈ | 2 ¹ / ₈ | — |
| 134A,B | 2 ¹ / ₈ | 2 ¹ / ₈ | — |

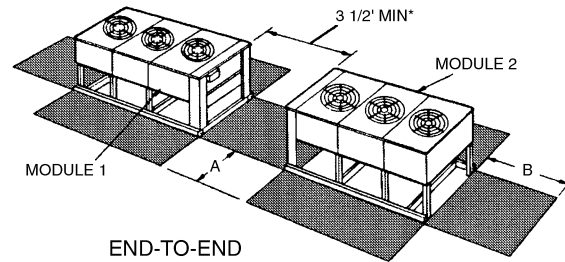
*Maximum length of riser is 3 ft (914 mm).

Multiple condensing unit arrangements

38AH044-104



38AH044-104



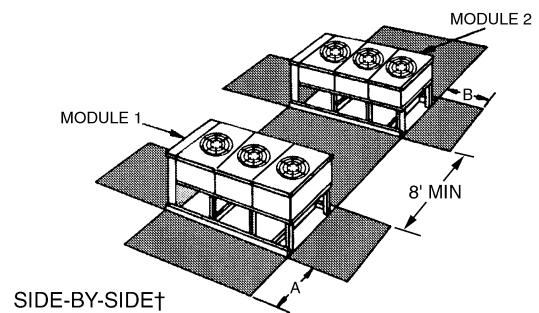
Space for Service and Airflow

*For clearances between controls and grounded surfaces, check local codes.

†Observe minimum recommended space requirements.

| DIMENSIONS (ft) | |
|-----------------|-----------|
| A | B |
| 6 (2 m) | 5 (1.5 m) |

38AH044-104



Guide specifications



Commercial Air-Cooled Condensing Units

HVAC Guide Specifications

Size Range: **40 to 130 Tons Nominal at 60 Hz**

123 to 390 kW Nominal at 50 Hz

Carrier Model Number: **38AH**

Part 1 — General

1.01 SYSTEM DESCRIPTION

Outdoor-mounted, air-cooled condensing unit suitable for on-the-ground or rooftop installation. Unit shall have 2 independent refrigeration circuits and shall consist of 2, 3, or 4 semi-hermetic reciprocating compressors, air-cooled coils, propeller-type condenser fans, and a control box. Unit shall discharge condenser air upward as shown on contract drawings. Unit shall be used in refrigeration circuit matched with a central station air-handling unit or direct-expansion coils.

1.02 QUALITY ASSURANCE

- A. Unit performance shall be rated in accordance with ARI Standard 365-94, U.S.A.
- B. Unit construction shall comply with latest edition of ASHRAE, ISO 9001:2000 and with NEC (U.S.A.).
- C. Base unit shall be constructed in accordance with UL standards and shall carry the UL label of approval. Unit shall have UL, Canada approval.
- D. Unit cabinet shall be capable of withstanding 500-hour salt-spray exposure per ASTM B117 (scribed specimen).
- E. Air-cooled condenser coils shall be leak tested at 150 psig (1034 kPa) and pressure tested at 450 psig (3310 kPa).

1.03 DELIVERY, STORAGE, AND HANDLING

Unit shall be shipped as single package or 2-container package, and shall be stored and handled per unit manufacturer's recommendations.

1.04 WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

Part 2 — Products

2.01 EQUIPMENT

A. General:

Factory assembled, single-piece or 2-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressors, holding charge (R-22), and special features required prior to field start-up.

B. Unit Cabinet:

- 1. Unit cabinet shall be constructed of galvanized steel, bonderized, and coated with a prepainted, baked enamel finish.
- 2. Unit access panels shall be hinged for control box service access.
- 3. Lifting holes shall be provided to facilitate rigging.

C. Fans:

- 1. Condenser fans shall be direct-drive propeller type, discharging air vertically upward.
- 2. Condenser fan motors shall be 3-phase type with class B insulation and permanently lubricated bearings. Motors shall be drip proof with sealed bearings.
- 3. Shafts shall have inherent corrosion resistance.
- 4. Fan blades shall be statically and dynamically balanced.
- 5. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

D. Compressors:

- 1. Compressors shall be serviceable, reciprocating, semi-hermetic type.
- 2. Compressors shall be equipped with an automatically reversible oil pump, operating oil charge, suction and discharge shutoff valves, and an insert-type factory-sized crankcase heater to control oil dilution.
- 3. Compressors shall be mounted on spring vibration isolators with an isolation efficiency of no less than 95%.
- 4. Compressor speed shall not exceed 1750 rpm (60 Hz), 1460 rpm (50 Hz).
- 5. Lead compressors on each circuit shall unload using suction cutoff unloading (electric solenoid unloading shall be available as an accessory).

E. Condenser Coils:

- 1. Condenser coils shall be air cooled and circuited for integral subcooler.
- 2. Coil shall be constructed of aluminum fins mechanically bonded to internally grooved, seamless copper tubes which are then cleaned, dehydrated, and sealed. Copper fins shall be available as an option.

F. Refrigeration Components:

Refrigeration circuit components shall include hot gas muffler, hot gas bypass stub tubes, high-side pressure relief device, liquid line shutoff valve, suction and discharge shutoff valves, holding charge of refrigerant R-22, and compressor oil. 38AH094-134 and all 38AH044-084 single-circuit units shall have suction line accumulators. Variable air volume (VAV) units shall also have suction line accumulators.

G. Controls and Safeties:

- 1. Minimum control functions shall include:
 - a. Five-minute protection to prevent compressor short-cycling.
 - b. Lockout on auto-reset safety until reset from thermostat.
 - c. Capacity control on the lead compressor shall be by suction cutoff unloaders in response to compressor suction pressure. Electric solenoid unloading shall be available as an accessory.

d. Head pressure control for mild ambient temperature operation through fan cycling. Condenser fans (except fans 1 and 2) shall be cycled by discharge pressure to maintain proper head pressure.

e. Winter start control to prevent nuisance tripouts at low ambient temperatures.

2. Minimum safety devices shall include:

Automatic reset (after resetting first at thermostat)

a. Low suction pressure cutout.

b. Condenser-fan motors protected against overloads or single-phase condition by internal overloads.

c. Low oil pressure cutout.

Manual reset at the unit

a. Electrical overload protection through the use of definite-purpose contactors and calibrated, ambient compensated, magnetic trip circuit breakers. Circuit breakers shall open all 3 phases in the event of an overload in any one of the phases or a single-phase condition.

b. High discharge-pressure cutout.

H. Operating Characteristics:

1. The capacity of the condensing unit shall meet or exceed _____ Btuh at a suction temperature of _____ F. The power consumption at full load shall not exceed _____ kW.

2. The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of _____ Btuh or greater at conditions of _____ cfm entering-air temperature at the evaporator at _____ F wet bulb and _____ F dry bulb, and air entering the condensing unit at _____ F.

3. The system shall have an Energy Efficiency Ratio (EER) of _____ Btuh/watt or greater at standard ARI conditions.

I. Electrical Requirements:

1. Nominal unit electrical characteristics shall be _____ v, 3-ph, 60 Hz or _____ 3 ph, 50 Hz. The unit shall be capable of satisfactory operation within voltage limits of _____ v to _____ v.

2. Unit or module electrical power shall be single-point connection.

3. Unit control circuit shall be 115 v, or 230 v for 380-3-60 units and all 50 Hz units (except 346-3-50 units, these units shall be 200 v).

J. Special Features:

1. Unloader Conversion Kit:

Unloader valve, piston, and hardware shall be supplied to convert any pressure-operated compressor unloader to 115-v (or 230-v) electrical unloading. Accessory control or field-supplied

step controller shall be required for electrical unloading.

2. Gage Panel:

A gage panel package shall be provided which includes a suction and discharge pressure gage for each refrigerant circuit.

3. Accessory Transformer Relay Package:

Relay shall be provided for use with a remote-control 24-v thermostat.

4. Electric Unloader Package:

Electric unloader shall provide an additional step of electric unloading.

5. Pressure Unloader Package:

Pressure unloader shall provide an additional step of pressure unloading.

6. Accessory Control:

Indoor mounted control shall provide up to 10 steps of microprocessor-based control for variable air volume (VAV) applications.

7. Low Ambient Control:

Control shall maintain correct condensing pressure at low ambient temperatures.

8. Optional Condenser Coil Materials:

a. Pre-Coated Aluminum-Fin Coils:

Shall have a durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments. Coating shall be applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube. Epoxy-phenolic barrier shall minimize galvanic action between dissimilar metals.

b. Copper-Fin Coils:

Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets. Galvanized steel tube sheets shall not be acceptable. All copper construction shall provide protection in moderate coastal applications.

A polymer strip shall prevent the coil assembly from contacting the sheet metal coil pan to minimize the potential for galvanic corrosion between the coil and the pan. All copper construction shall provide protection in moderate coastal environments.

c. E-Coated Aluminum-Fin Coils:

Shall be constructed of aluminum fins mechanically bonded to copper tubes. Coating process shall have a flexible epoxy polymer coating uniformly applied to all coil surfaces without material bridging between the fins. The coating process shall ensure complete coil encapsulation. Color shall be high-gloss black with gloss at 60° F of 65% to 90% per ASTM D523-89. Uniform dry film thickness shall be

Guide specifications (cont)



0.8 mil to 1.2 mil on all surfaces, including the fin edges. Superior hardness characteristics shall meet those requirements of 2H, per ASTM D3363-92A. Cross-hatch adhesion shall meet the requirements of 4B-5B, per ASTM D3359-93. Impact resistance shall be up to 160 in./lb, per ASTM D2794-93. Humidity resistance shall be up to a minimum of 1000 hours per ASTM D2247-92. Water immersion resistance shall be up to a minimum of 250 hours per ASTM D870-92. Durability shall be confirmed through testing to no less than 1000 hours of salt spray per ASTM B117-90.

d. E-Coated Copper Fin Coils:

Shall be copper fins mechanically bonded to copper tubes with copper tube sheets. Coating process shall have a flexible epoxy polymer coating uniformly applied to all coil surfaces without material bridging between the fins. The coating process shall ensure complete coil encapsulation. Shall be high-gloss black with gloss at 60° F of 65% to 90% per ASTM D523-89. Uniform dry film thickness shall be 0.8 mil to 1.2 mil on all surfaces, including the fin edges. Superior hardness characteristics shall meet those requirements of 2H, per ASTM D3363-92A. Cross-hatch adhesion shall meet the requirements of 4B-5B, per ASTM D3359-93. Impact resistance shall be up to 150 in./lb, per ASTM D2794-93. Humidity resistance shall be up to a minimum of 1000 hours per ASTM D2247-92. Water immersion resistance shall be up to a minimum of 250 hours per ASTM D980-92. Durability shall be confirmed through testing to no less than 1000 hours of salt spray per ASTM B117-90.

9. Thermostat Controls:

- a. Programmable multi-stage thermostat with 7-day clock, holiday scheduling, large backlit display, remote sensor capability, and Title 24 compliance.
- b. TEMP System programmable communicating multi-stage thermostat with fan switch, timeclock, LCD display, °F/°C capability, and CCN (Carrier Comfort Network) compatibility.

- c. Commercial Electronic Thermostat with 7-day timeclock, auto-changeover, multi-stage capability, and large LCD temperature display.
- d. Non-programmable thermostat with fan switch subbase.

10. Hail Guard:

Unit shall be equipped with louvered condenser coil hail guard protection and installation hardware.

11. Security Grilles:

A set of PVC-coated metal grilles complete with support retainers and fasteners shall be provided for the protection of the condensing coils, compressors, or both.

12. Sound Reduction Package Kit:

This field-installed accessory kit shall consist of a specially designed fan system containing fans and orifices for reducing system noise without compromising unit performance. No fan motor change shall be required for accessory installation.

13. VAV Control Box:

Modification shall include electric unloaders on compressors (1 for 38AH044; 2 for 38AH054-084 and 104; 3 for 38AH094; and 4 for 38AH124,134) to make condensing unit compatible with VAV controller. Unit shall include factory-installed accumulator.

14. Single-Circuit Modification (sizes 044-084 only):

Modification shall include all piping and wiring to make unit single circuit. Unit shall include factory-installed accumulator.

15. Single-Circuit Modification with VAV:

Modification shall include piping, wiring, and electric unloaders on compressors (one on 38AH044 and 2 on 38AH054-084) to make unit single circuit, VAV ready.

