UDS SERVICE SIZING GUIDE

	MAIN SERVICE	TOTAL USABLE KILOWATS AVAILABLE IN RACEWAY						
	AMPERAGE	120/208 1 PHASE	120/20 3 PHAS	-	0/240 PHASE	120/240 3 PHASE	277/480 3 PHASE	
	30	4.7	8.1		5.4	9.2	18.4	
	50	7.8	13.5		9.0	15.3	30.6	
	80	12.5	21.6	•	14.4	24.5	49.0	
Ш	100	15.6	27.0	•	18.0	30.6	61.2	
	125		33.8			38.3	76.5	
Ш	150		40.5			45.9	91.8	
C	175		47.3			53.6	107.1	
Ä	200		54.0			61.2	122.4	
٦į	225		60.8			68.9	137.7	
	250		67.5			76.5	153.0	
C	300		81.1			91.8	183.6	
	350		94.6			107.1	214.2	
	400		108.1			122.4	244.8	
	450		121.6			137.7	275.4	
	500		135.1			153.0	306.0	
	550		148.6			168.3	336.6	
	600		162.1			183.6	367.2	
-		BTU/	HR PER LENGT	H OF RACEWAY	@ 7" WC PRE	SSURE		
	SINGLE FEED							
	DIDE SIZE	10'	15'	20'	30'	40'	50'	

SINGLE FEED							
PIPE SIZE	10'	15'	20'	30'	40'	50'	
1 1/2"	975	790	675	550	N/A	N/A	
2"	2050	1700	1450	1175	990	900	
LOOPED FEED							
PIPE SIZE	10'	15'	20'	30'	40'	50'	

1 1/4" 1 1/2" 2"

BASED ON CONNECTION SIZE FOR NATURAL GAS AT 7" W.C. MAIN SERVICE FROM METER. DEPENDENT ON BUILDING PIPING SYSTEM AND PRESSURE. LOOPED SERVICE REQUIRED WHEN MORE THAN THREE APPLIANCES IN 10'(TO EQUALIZE FLOW AND INCREASE CAPACITY) PRESSURE DROP VARIES ACCORDING TO THE NUMBER OF APPLIANCES

STEAM CAPACITYS(LBS. PER HOUR)

	PRESSU RE	VELOCITY FT/SEC	PIPE SIZE (O.D. X 0.065 INCH WALL)						
MCDEC			1"	1 1/2"	2"	2 1/2"	3"		
	5	50	35	90	170	270	395		
		80	60	145	270	430	635		
		120	85.0	215	405	650	950		
	10	50	45	110	210	335	490		
		80	70	180	330	535	785		
		120	110.0	270	500	800	1175		
	20	50	60	155	285	460	675		
		80	100	245	460	735	1080		
		120	150.0	370	685	1105	1620		
	30	50	80	195	365	585	855		
		80	125	310	580	935	1370		
		120	190.0	465	870	1400	2050		

STEAM SUPPLY LINE CAN BE SIZED FROM THE TABLE ABOVE. STEAM IS USALLY LOW PRESSURE AROUND 5PSI AND USE 2" OR 2 1/2" SUPPLY LINES. A 3" SUPPLY LINE IS VERY LARGE AND MAKES PLUMBING CONSTRUCTION DIFFICULT, IT SHOULD ONLY BE USED AS SUPPLY DEMANDS.

TYPICAL STEAM CONSUMPTION RATES EQUIPMENT OPERATING LBS PER HOUR PRESSURE(PSIG) IN USE MA

EQUI MEN	OI LIVATINO	LDO I LIX HOUR	
	PRESSURE(PSIG)	IN USE	MAXIMUM
10 GALLON STEAM JACKETED KETTLE	5-20	13	106
25 GALLON STEAM JACKETED KETTLE	5-20	29	124
40 GALLON STEAM JACKETED KETTLE	5-20	44	140
60 GALLON STEAM JACKETED KETTLE	5-20	58	152
DIRECT VEGTABLE STEAMER (PER COMPARTMENT)	5-20	29	80
POTATOF STEAMER	5-20	29	80

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