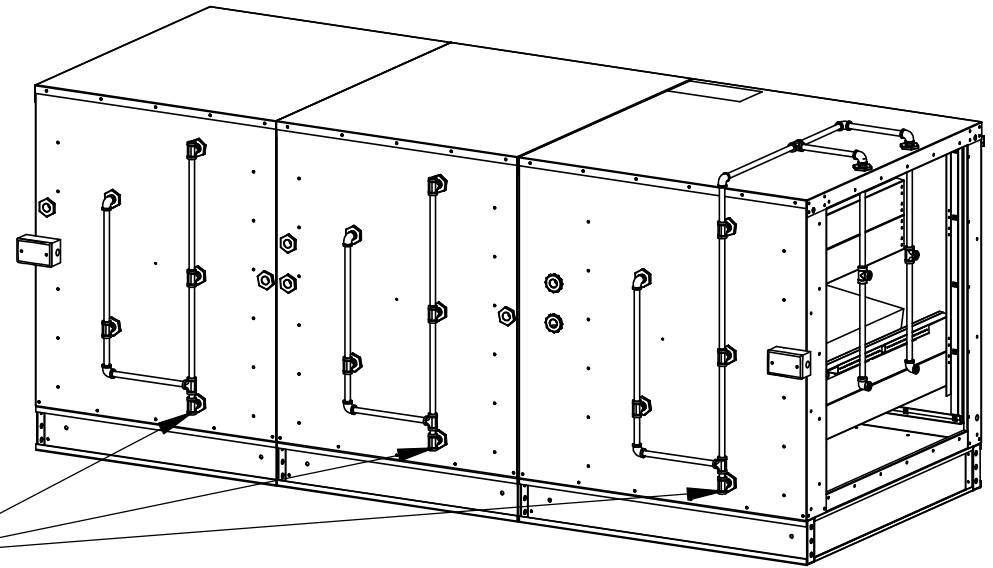
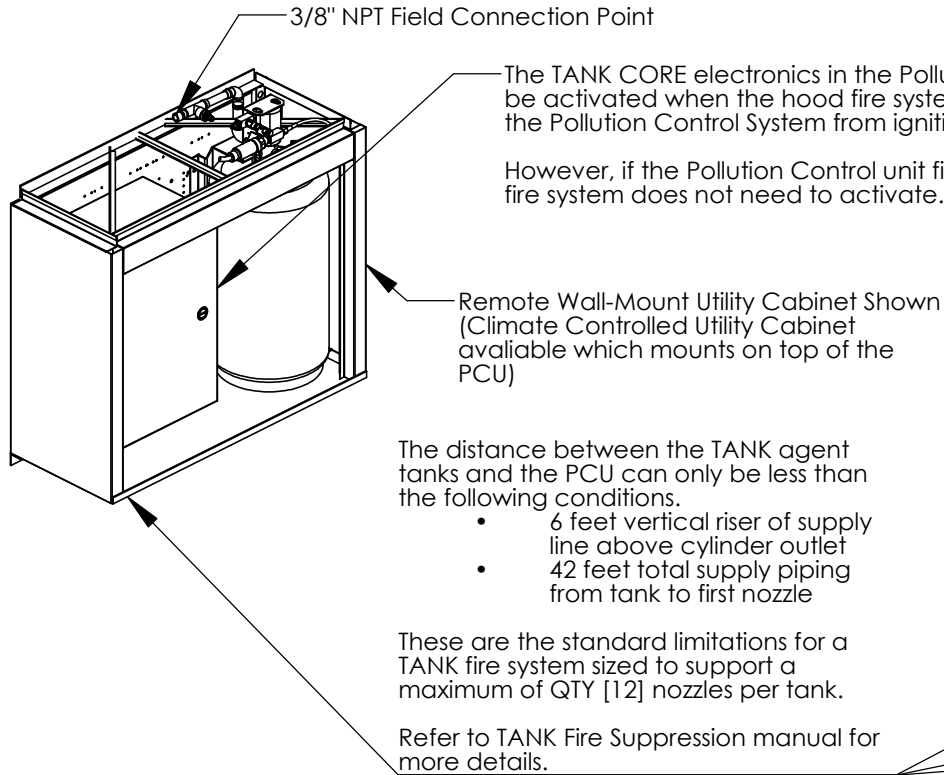


TANK Fire System Installation

The Pollution Control Unit, Model PCU Series, is suitable for both indoor and outdoor installations. The PCU Series includes a pre-piped TANK Fire Suppression System; size of the system and number of nozzles vary depending on size and configuration selected. Below is general information on installation for the fire system tanks and CORE electronics.



Field Piping for wall-mount utility cabinet shall be either of the below:

- Grade L 1/2" copper tubing and propress fittings
- 3/8" NPT Schedule 40 black iron, chrome-plated, or stainless steel pipe and fittings

Factory piping for climate controlled utility cabinet will be:

- Grade L 1/2" copper tubing and propress fittings

For PCU installed outdoors, consider the following requirements:

- The agent used in the fire system should be kept from freezing and extremely high temperatures.
- With outdoor installation, the CORE electronics and agent tanks are to be located inside a conditioned space.
- Alternatively, a small structure can be constructed to contain all of the fire system equipment if distance is greater than the conditions as stated above. This structure must be weathertight and maintain temperatures between 32°F and 130°F. A factory-mounted climate controlled utility cabinet is available for this.

Pollution Control Unit Clearances.

- Top, 18" to combustibles.
- Back (opposite side of doors), 18" to combustibles.
- Base, 18" to combustibles.
- Doors, 36" for filter maintenance.

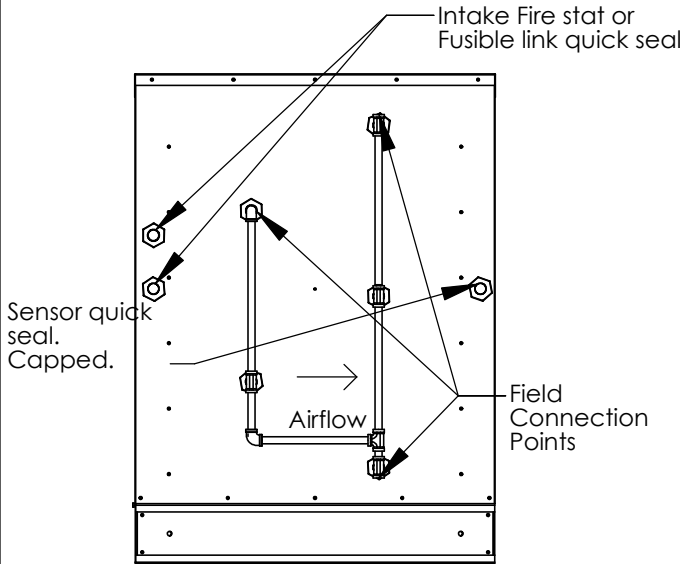
Clearances can be reduced by using an insulation system designed for kitchen effluent ductwork.

TANK Fire System Installation Information

The PCU Series includes a pre-piped TANK Fire System; size of the system and number of nozzles vary depending on size selected. The pictures below show the plumbing configuration per module; the plumbing will always be located on the opposite side of the access doors. The nozzles offer coverage across each V bank configuration as well as duct and plenum protection. PreFilter, High Efficiency, Electrostatic Precipitator, HEPA, and OC modules are available. Pollution Control Unit fire system EXTERIOR plumbing will be done using pro press fittings. Pollution Control Unit fire system INTERIOR plumbing will be done using Stainless Steel fittings.

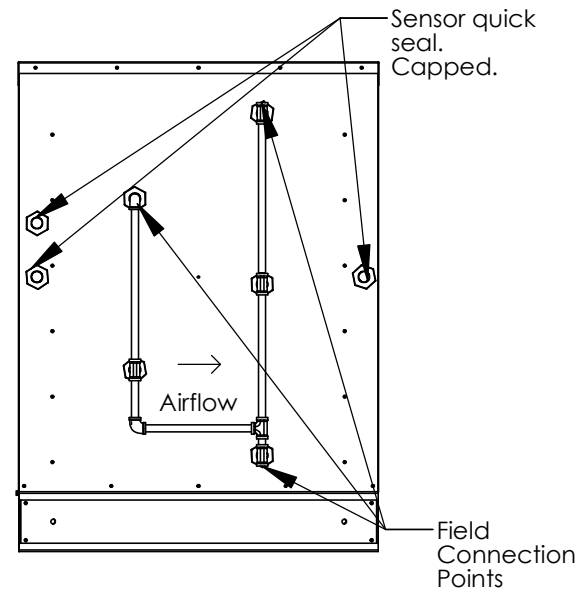
All airflow is from Left to Right.

First Filter Section



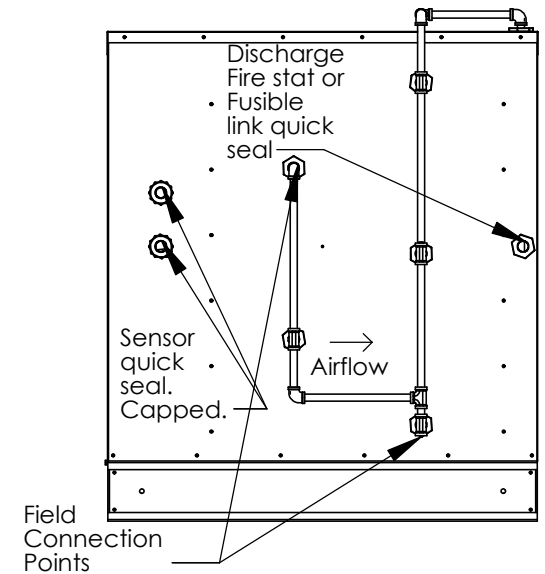
Standard Intake section fire system. Field connection point is capped to prevent debris from entering the system during shipping.

Center Filter Section(s)



View of the standard center section. Field connection point is capped to prevent debris from entering the system during shipping.

Last Filter Section



Last filter section. Ductwork and fan protection penetrates through the top of the unit. See chart below. Field connection point is capped to prevent debris from entering the system during shipping.

TANK uses 3070-3/8H-SS10 w/ nozzle cap for both the side and fan drop locations.

All 3/8" quick seals have a close (1 3/8") pipe nipple attached to the inside of the unit. The nozzle attaches to it.

When an outdoor utility cabinet is installed, move the field connection point to the top of the unit. This will be connected at the plant.

Fire System per Unit

Unit Size	TANK	
	ALL Filter Nozzles (3070-3/8H-SS10)	Ductwork Nozzle (3070-3/8H-SS10)
1	4	2
2	4	4
3	5	4
4	6	4
5	7	4
6	7	6
7	11	6

Electric Fire Detection Sensor Installation

The electric fire detection includes a sensor preset to trigger the fire system if the temperature in the duct reaches or exceeds 360 degrees. If the PCU Series Model ends in REFS, example PCU-PF-HE-OC-REFS, then the electric fire detection is installed on the unit. The sensor used to detect fire is from Fenwal and there should be no thread sealant on the sensor.

Sensor Exploded View

Below is an exploded view of the electric detection installed in a Pollution Control Unit. The parts listed below are provided with the unit with electric detection.

