



Low Temp AHU

Waterside

Our low-temp air handling units are specifically designed for cooler, freezer type applications where there is a requirement for air temperatures below 32°F.

Multiple AHU Applications

In order to prevent a decrease in airflow supply due to excessive frozen coils, the unit triggers a timed defrost cycle. While in defrost cycle, a communication cable allows other units to provide cooling; this ensures constant cooling at all times.



General Information

Labels	Value		
Unit	F0	F1	F2
Model Number	PCC-1L-3210-4-7.5	PCC-1L-3210-4-7.5	SMTAH1D 035QLT
Ambient Operating Conditions	-20°F to 100°F(a)	-20°F to 100°F(a)	-20°F to 100°F(a)

(a) For ambient conditions below 40°F, glycol is recommended.

Airside Data

Labels	Value		
Unit	F0	F1	F2
Discharge Air Configuration	Horizontal		
Supply Duct Connection Qty and Size	(1) 36" Round*	(4) 20 in. round	(4) 20 in. round
Nominal Air Flow (cfm)	12,100(b)	12,100(b)	12,000
Discharge Static Pressure @ Nominal Airflow	1.5 in ESP	1.5 in ESP	4 in ESP
Maximum Air Flow (cfm)	24500	24500	29000 (b)
Discharge Static Pressure @ Maximum Airflow	0.5 in ESP	0.5 in ESP	2.9 in ESP

* With long throw adapter

Electrical Data

Labels	Value		
Unit	F0	F1	F2
Supply Motor Qty & HP	(1) 7.5	(1) 7.5	(2) 25hp
Supply Motor FLA	11	11	29.1/Ea
Heater Circuit Qty and kW	(1) 37.7 kW	(1) 37.7 kW	(3) 10.8 kW
Heater FLA	47.35 A	47.35 A	13.6/Ea
Supply Motor Speed	1160 rpm	1160 rpm	2600 rpm
Fused Disconnect/Circuit Breaker	Yes	Yes	Yes
Number of Electrical Circuits	1	1	1
Voltage	460V/60Hz/3-Phase		
Minimum Circuit Ampacity (MCA)	51	51	110A
Maximum Over current Protection (MOP)	80	80	125A

Waterside Data

Labels	Value		
Unit	F0	F1	F2
Water Connection Type and Size	2.5 in Grooved	2.5 in Grooved	2.5 in Grooved
Drain Pipe Size	2 in	3/4 in	7/8 in
Drain Pipe Connection Type	Female Pipe Thread	Garden Hose	Threaded

Dimensions and Weights

Labels	Value		
Unit	F0	F1	F2
Length	9 ft. 6 in.	8 ft. 6 in.	9 ft. 9.5 in.
Width	6 ft. 0 in.**	6 ft. 0 in.	7 ft. 5.5 in.
Height	7 ft. 2 in.	7 ft. 9 in.	7 ft. 4 in.
Shipping Weight	2463 lbs	3680 lbs	6800 lbs
Operating Weight	2813 lbs	4030 lbs	8200 lbs

Lifting Device: Forklift or Crane

** Width with Long Throw Adapter

Features and Benefits

F0, F1, and F2 Units

Defrost – Prevents excessive frozen coils.

Three Way Valves – Simply allows the unit cooling coil to be bypassed while it is going through its defrost cycle.

Phase monitor and light – Ensures that line voltage is properly phased, protecting the equipment and greatly reducing troubleshooting time.

F1 & F2 Units only

VFD with Bypass – This allows the installer to set exact supply airflow needs.

Cam-lok power connections – Allows the installer to make cable connections with a simple twist.

Filter Rack – Each unit is equipped with filters that are removable and replaceable. This allows the cooling coil to stay as clean as possible.

Lifting Frame – Allows for easy overhead lifting or from its own base that can be forklifted. Some frames can be used for stacking while in operation. Contact Trane Rental Services for further information.

Supply Plenum – Each unit comes with (4) supply discharge connections to accommodate flex type ducts to help distribute air evenly across the building area.

Electronic Temperature Control – easily adjust temperature settings with the touch of a button.

Coil Capacity

Unit Model	Coil Type	Entering/Leaving Water Temp (°F)	Water Flow (gpm)	Pressure Drop (ft of H ² O)	Entering/Leaving Air Temp (°F)	Coil Capacity (BTUH)
F0/F1	Chilled Water	0/3.4	70	16.17	14/6.8	105,077
		0/3.9	90	17.39	16/9.7	158,567
		0/3.1	120	27.9	16/9.4	166,583
F2	Chilled Water	0.0/2.0	200	71.86	16.0/9.9	177,053
		20.0/23.7	250	37.53	44.0/30.1	440,734

Selection based on 50% propylene glycol/water solution.
Selection is required for actual AHU performance.
Contact Trane Rental Services for specific selection information.
Maximum waterside pressure is 150 psi (2.31' H²O = 1 psi)



24hr Trane Rental Customer Service
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