



Comfort Where It Counts.

## FCP FLOOR MOUNTED CONSOLE AIR HANDLER

P/N 240-3238 Rev. 1.2 [11/04]

SPECIFICATIONS AND PERFORMANCE



### 2 PIPE CHILLED WATER FAN COIL

Nominal Capacities: 9000, 12000, 18000, 24000, 30000, 36000, 42000, and 48000 Btuh

#### PRODUCT DESCRIPTION

The FCP chilled water air handler incorporates a streamlined high impact polystyrene top with an electronic I/R compatible control pad. An optional hand held remote is also available.

The cabinet's rounded corners, smooth surfaces and metal grills are a step above what the competition has to offer. Its large supply and return grills ensure superior air flow in both heating and cooling capacities. The FCP has standard fresh air knockouts to allow introduction of outside air.

Electric or hot water heating options are available on FCP models. The FCP operates with very low sound levels and is available with several new options. The unit is compatible with any chilled water source of matching capacity.

#### AIR HANDLER STANDARD FEATURES

- ▲▼ **Cabinet:**
  - 94 HB polystyrene top (designer white finish)
  - Fabricated of 20 gauge galvaneal steel
  - Powder coat textured finish
- ▲▼ **Intake & Discharge Grills**
  - **Intake:** Anodized aluminum w/radius ends
  - **Discharge:** Aluminum w/structural supports
- ▲▼ **Drain Pan**
  - Pitched galvanized steel w/anti-corrosion coating
- ▲▼ **Air Systems**
  - **Fan:** Dynamically balanced, motor-shaft driven, centrifugal fans.
  - **Motor:** Permanent split capacitor (PSC) type with overload protection.
  - **Airstream Surfaces:** Galvaneal steel with 1/4" fiberglass insulation.
  - **Air Filter:** User accessible, permanent, washable electrostatic filter.
  - **Coil:** Staggered seamless copper tubing with enhanced aluminum fins; tested to 400 psig.

#### ▲▼ Factory Installed Controls/Components

- Relays and connections for chilled water and power supply
- Fan purge (fan remains on for 1 minute after heat/cool signal is dropped)
- Low Volt transformer
- Heat/Cool fan mode selection
- 3/4" LCD display
- Automatic/manual fan control
- Indoor coil freeze protection
- Low Volt transformer

#### SYSTEM OPTIONS

- Hand held infrared remote or 24V wall T-stat
- Hydronic heat w/sweat connections
- ETL approved electric heat w/safety controls (not available with hydronic heat option)
- Chilled water control valve (field installed)
- Motorized fresh air (field installed)
- Fan induced fresh air (field installed)
- Condensate pump

#### INSTALLER SUPPLIED ITEMS

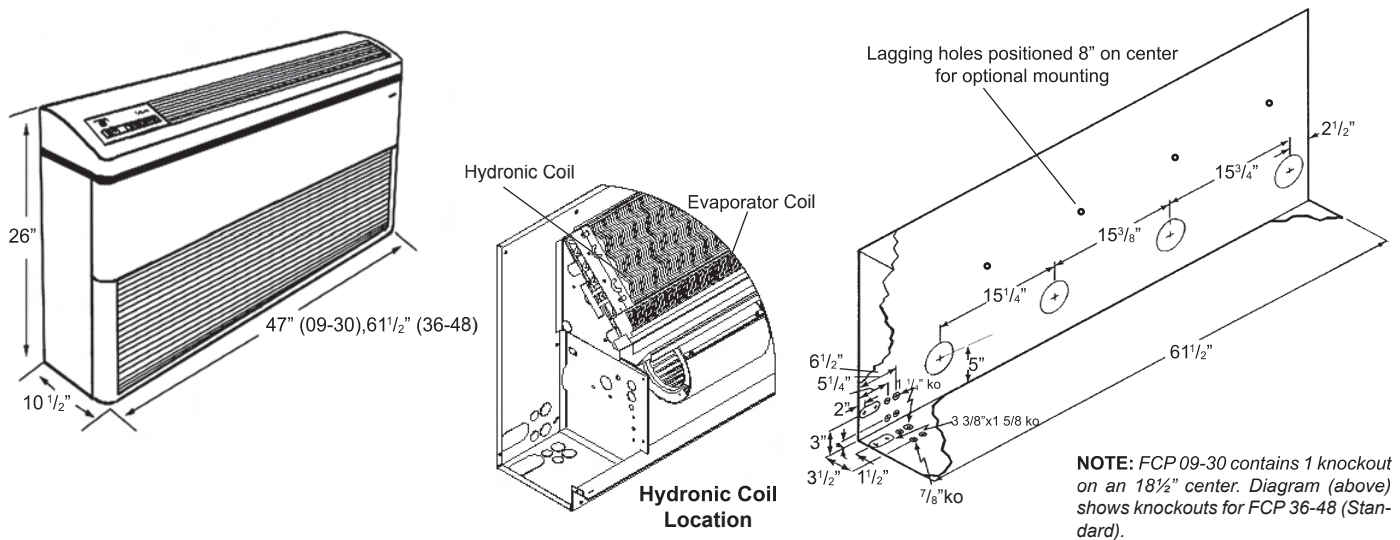
- Power wiring and low voltage wiring
- Mounting fasteners (screws, etc.)
- Chilled water and condensate piping

CAPACITIES	Unit	Total Capacity	Sensible Capacity	Fluid Temp.	Fluid Flow	PD FtH <sub>2</sub> O
	FCP 09/12		7375	6732	45	1.0
		10801	8272	45	2.0	3.8
		13270	9279	45	3.0	8.0
FCP 18/24		8387	7189	40	1.0	0.8
		12481	8950	40	2.0	3.9
		15643	10304	40	3.0	8.1
FCP 24/30		15624	13477	45	2.0	4.4
		19761	15376	45	3.0	9.1
		17724	14379	40	2.0	4.5
FCP 36/42 & 48		23073	16763	40	3.0	9.3
		24541	18909	45	3.0	5.9
		30129	21322	45	4.5	12.5
FCP 24/30		33015	22541	45	6.0	21.1
		27978	20357	40	3.0	6.0
		35317	23538	40	4.5	12.6
FCP 36/42 & 48		39075	25220	40	6.0	21.4
		34512	28430	45	4.0	6.4
		42872	32080	45	6.0	13.3
FCP 36/42 & 48		47364	33977	45	8.0	22.6
		39081	30341	40	4.0	6.4
		49981	35067	40	6.0	13.5
	56292	37832	40	8.0	22.8	

*All capacities based on high speed fan and 80° F dry bulb/67° F wet bulb entering air temperature.*

# FCP DIMENSIONS & SPECIFICATIONS

**NOTE:** Due to ongoing development programs, design and specifications may change without notice.



FCP Electrical Specifications				
Model#	Voltage/Hertz/Phase	Fan FLA	Minimum Ampacity*	Max. Fuse
9/12	115/60/1	1.5	1.9	15
9/12D	208-230/60/1	0.6	0.8	15
18/24	208-230/60/1	0.6	1	15
30	208-230/60/1	1.1	1.4	15
36/42,48	208-230/60/1	1.1/1.1	2.5	15

\* If electric heat is installed use ampacity/max. fuse ratings from heater options table.

FCP Electrical Heat Specifications						
Model#	Voltage	KW	Heater Amps	Total Amps	Min. Circuit (Amps)	Max Fuse (Amps)
9/12	230	3	13.1	13.7	17.1	20
18/24	230	5	21.7	22.5	28.2	30
30	230	5	21.7	22.8	28.6	30
36/42,48	230	7	21.7	32.7	32.7	50

FCP HYDRONIC HEAT SPECIFICATIONS (Single-stage Heating only)				
Model#	EWT °F	Btuh	GPM	PD Ft. H <sub>2</sub> O
9/12	180	24,300	2.0	3.4
	140	18,400	2.0	3.4
18/24, 30	180	41,500	3.5	5.6
	140	26,200	3.5	5.6
36/42, 48	180	39,500	6.0	8.8
	140	62,400	6.0	8.8

**NOTE:** Not available with Heat Pump applications.

FCP Sound Levels	
Model#	DbA
9/12	48.6
18	57.2
24/30	60.6
36/ 42, 48	63.2

Shipping Weights	
Model#	Shipping Wt (lbs.)
9/12	85
18/24	115
30	120
36/42,48	155

FCP Piping Specifications		
Model#	Chilled Water Line Size (Supply & Return)	Drain Hose
9/12	1/2" I.D.	1/2" I.D.
18/24	5/8" I.D.	5/8" I.D.
30	3/4" I.D.	5/8" I.D.
36/42,48	3/4" I.D.	5/8" I.D.

FCP Discharge Air Speed And Throw				
Model#	CFM Low/High	Coil	FPM	Throw/ft.
9/12	350/375	dry	800	12.4
18/24,30	480/700	dry	1500	18.6
36/42,48	1000/1200	dry	1500	19.0



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