

Specification Guide

CP Series

Ceiling/Soffit Mount Air Handlers

Electric Heat, Cased and Uncased, available with High Efficiency ECM Motor





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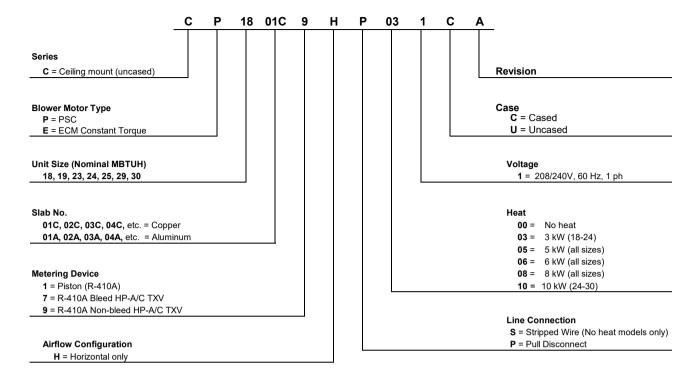




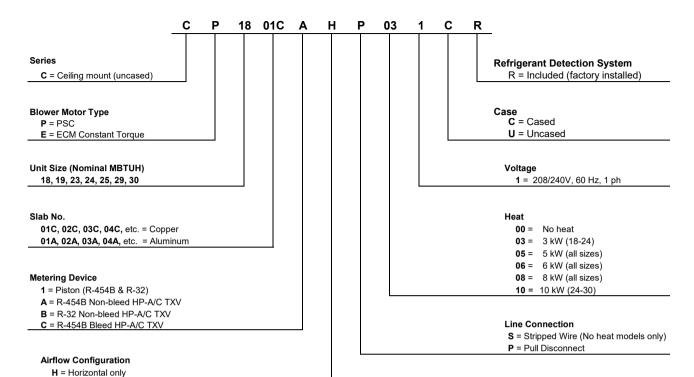
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A1 Refrigerants Product Nomenclature



A2L Refrigerants Product Nomenclature



Product Features

General Features

- · Available in uncased and cased configurations from factory.
- Cases also available for field installation as accessory.
- · Designed for drop ceiling or Fur-Down application.
- · Constructed of heavy-gauge, corrosion-resistant galvanized steel.
- · Left hand refrigerant connections.
- · Condensate drain connections on left and right side of air handler.
- · Decorative panels available as accessory.
- · Suitable for free air-return installation (non-ducted return).

Evaporator Coil Features

- Coils are air pressure tested at 500psi, leak tested with helium, sealed with rubber plugs, and then charged with dry air.
- A1 models suitable for use with R-22 and R-410A.
- · A2L models suitable for use with R-32 and R-454B
- A2L models include factory installed Refrigerant Detections System (RDS)
- Available in copper or aluminum construction.
- · High efficiency lanced fin design.
- · Enhanced copper or aluminum tubing.
- Piston or HP-A/C TXV available factory installed. Screw-on TXVs available as kits for field installation (see Accessories & Replacement Parts list for available kits)

Electrical Features

- ECM Constant Torque motor or PSC motor available.
- · Easy to service electric heat section.

Physical Data			Unit Size						
		18	19	23	24	25	29	30	
Available Voltage	208/240 V, 60 Hz, 1 ph								
Maximum Elec. Heat Available (kW)			8	8	10	10	10	10	
Transformer Size and Typ	oe	40 VA, Class 2							
Blower Data:	Motor H. P.	1/8	1/8	1/3	1/3	1/3	1/3	1/3	
PSC Motor (CP Models)	F. L. A. @ 240 V	1.25	1.25	1.9	1.9	1.9	1.9	1.9	
Blower Data:	Motor H. P.	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
ECM Motor (CE Models)	F. L. A. @ 240 V	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Nominal CFM		600	600	800	800	800	1000	1000	
Refrigerant Conn. (IDS) S	uction (in)				3/4				
Refrigerant Conn. (IDS) L	iquid (in)				3/8				
R-410A Piston Size (in)		.049	.049	.053	.053	.053	.059	.059	
Pallet Quantity (min order	per model)				8				
Max Unit Weight (uncased)		63	68	63	68	73	70	73	
Max Shipping Weight (un	cased)	66 71 66 71 76 73			73	76			
Max Unit Weight (cased)		92 100 92 100 108 105			108				
Max Shipping Weight (ca	sed)	95 103 95 103 111 108				111			

Blower Performance

2-Speed PSC Motor

Unit Size	Blower Speed Setting	Airflow (CFM) vs. External Static Pressure (inches W.C.)					
	Setting	0.1	0.2	0.3	0.4	0.5	
18, 19	Low - Red	610	536	468	392	316	
10, 19	High -Black	680	607	532	456	368	
23	Low - Red	846	777	702	627	546	
23	High -Black	902	830	755	667	589	
24 20	Low - Red	833	781	725	658	580	
24, 29	High -Black	1039	976	903	825	728	
25, 30	Low - Red	839	771	706	644	553	
	High -Black	1050	975	901	820	744	

ECM Constant Torque Motor

Unit Size	Blower Speed	Airflow (CFM) vs. External Static Pressure (inches W.C.)						
	Setting	0.1	0.2	0.3	0.4	0.5		
	Tap 1 (G)	604	514	453	437	301		
	Tap 2 (DS)	604	514	453	437	301		
18, 19	Tap 3 (Y1)	735	651	577	506	444		
	Tap 4 (Y2)	890	826	764	700	605		
	^ Tap 5 (W1)	890	826	764	700	605		
23, 24, 29	Tap 1 (G)	618	547	464	344	270		
	Tap 2 (DS)	617	547	469	351	273		
	Tap 3 (Y1)	779	720	633	549	441		
	Tap 4 (Y2)	940	876	812	750	675		
	^ Tap 5 (W1)	937	875	812	750	674		
	Tap 1 (G)	630	557	485	380	277		
	Tap 2 (DS)	630	556	483	378	277		
25, 30	Tap 3 (Y1)	803	719	640	576	521		
	Tap 4 (Y2)	981	909	833	766	705		
	^ Tap 5 (W1)	984	909	837	769	709		

- Speeds marked in bold with asterisk are the factory speed settings for both heating and cooling.
- Heating speeds should not be reduced below factory setting.
- Different speeds can be set for cooling mode; see installation instructions for changing cooling speeds.
- When matched with heat pump, and the room thermostat calls for second stage heat (electric heat strips), the first stage (heat pump) operation must be locked out. See parts sheet for Heat Pump Relay Kit Part #76701444.

Electrical Data

Unit Size	Heat C	apacity	Minimum Circuit Ampacity				D. II Dia a a a a a a
	kW BTUH		PSC			ECM	Pull Disconnect Amps Per Stage
	240 V [1]	240 V [1]	208 V	240 V	208 V	240 V	Amps Per Stage
	0.0	0	1.6	1.6	2.6	2.5	15
	3.0	10,236	15.1	17.2	16.0	18.1	30
18, 19	5.0	17,060	23.2	26.6	24.1	27.5	30
	6.0	20,472	28.6	32.8	29.5	33.8	45
	8.0	27,296	37.6	43.2	38.5	44.2	45
	0.0	0	2.5	2.4	2.6	2.5	15
	3.0	10,236	15.9	18.0	16.0	18.1	30
23, 24, 29	5.0	17,060	24.0	27.4	24.1	27.5	30
25, 24, 25	6.0	20,472	29.4	33.6	29.5	33.8	45
	8.0	27,296	38.4	44.0	38.5	44.2	45
	10 ^[2]	34,120	41.4	54.4	41.6	54.5	60
	0.0	0	2.5	2.40	2.6	2.5	15
	5.0	17,060	24.0	27.4	24.1	27.5	30
25, 30	6.0	20,472	29.4	33.6	29.5	33.8	45
	8.0	27,296	38.4	44.0	38.5	44.2	45
	10.0	34,120	41.4	54.4	41.6	54.5	60

^[1] For 208 Volts use .751 correction factor for kW & MBTUH.

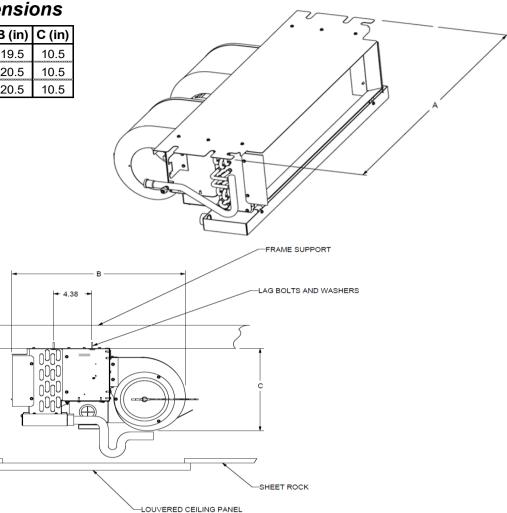
[•] All airflow data is with a dry coil and electic heat.

[^] Factory setting for heating.

^{[2] 10}kW not available in -23 model

Uncased Dimensions

Air Handler	A (in)	B (in)	C (in)
18, 23	37	19.5	10.5
19, 24, 29	43	20.5	10.5
25, 30	49	20.5	10.5



Cased Dimensions

Air Handler Size	A (in)	B (in)	C (in)	D (in)	E (in)
18, 23	39.7	24	11	30.5	7
19, 24, 29	45.7	24	11	36.5	7
25, 30	51.7	24	11	42.5	7

