

Specification Guide

CP Series Ceiling/Soffit Mount Air Handlers

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



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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.
- · Pull disconnect line voltage connection included on all electric heat models.

Physical Data					Unit Size)		
Physica	18	19	23	24	25	29	30	
Available Voltage			208/24	0 V, 60 H	z, 1 ph			
Maximum Elec. Heat Avai	lable (kW)	8	8	8	10	10	10	10
Transformer Size and Typ)e	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	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
Max Unit Weight (uncase	d)	63	68	63	68	73	70	73
Max Shipping Weight (un	cased)	66	71	66	71	76	73	76
Pallet Quantity (uncased)	8	8	8	8	8	8	8
Max Unit Weight (cased)		92	100	92	100	108	105	108
Max Shipping Weight (ca	sed)	95	103	95	103	111	108	111
Pallet Quantity (cased)		8	4	8	4	4	4	4

Blower Performance

2-Speed PSC Motor

Unit Size	Blower Speed Setting	•						
	Getting	0.1	0.2	0.3	0.4	0.5		
18, 19	Low - Red	610	536	468	392	316		
16, 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, 29	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		
23, 30	High -Black	1050	975	901	820	744		

ECM Constant Torque Motor

Blower Speed	Airflow (CFM) vs. External Static Pressure (inches W.C.)						
Getting	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		
Tap 3 (Y1)	735	651	577	506	444		
Tap 4 (Y2)	890	826	764	700	605		
^ Tap 5 (W1)	890	826	764	700	605		
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		
Tap 3 (Y1)	803	719	640	576	521		
Tap 4 (Y2)	981	909	833	766	705		
^ Tap 5 (W1)	984	909	837	769	709		
	Setting Tap 1 (G) Tap 2 (DS) Tap 3 (Y1) Tap 5 (W1) Tap 1 (G) Tap 2 (DS) Tap 3 (Y1) Tap 4 (Y2) ^ Tap 4 (Y2) ^ Tap 5 (W1) Tap 4 (Y2) ^ Tap 5 (W1) Tap 1 (G) Tap 2 (DS) Tap 3 (Y1) Tap 3 (Y1) Tap 4 (Y2) ^ Tap 5 (W1)	Setting 0.1 Tap 1 (G) 604 Tap 2 (DS) 604 Tap 3 (Y1) 735 Tap 4 (Y2) 890 ^Tap 5 (W1) 890 Tap 1 (G) 618 Tap 2 (DS) 607 Tap 3 (Y1) 779 Tap 4 (Y2) 940 ^Tap 5 (W1) 937 Tap 1 (G) 630 Tap 2 (DS) 630 Tap 3 (Y1) 803 Tap 3 (Y1) 803 Tap 3 (Y1) 803 Tap 3 (Y1) 981	Setting 0.1 0.2 Tap 1 (G) 604 514 Tap 2 (DS) 604 514 Tap 3 (Y1) 735 661 Tap 4 (Y2) 890 826 ^Tap 5 (W1) 890 826 Tap 1 (G) 618 547 Tap 2 (DS) 617 547 Tap 3 (Y1) 779 720 Tap 4 (Y2) 940 876 ^Tap 5 (W1) 937 875 Tap 1 (G) 630 557 Tap 2 (DS) 630 556 Tap 3 (Y1) 803 719 Tap 4 (Y2) 981 909	Setting 0.1 0.2 0.3 Tap 1 (G) 604 514 453 Tap 2 (DS) 604 514 453 Tap 3 (Y1) 735 651 577 Tap 4 (Y2) 890 826 764 ^Tap 5 (W1) 890 826 764 Tap 1 (G) 618 547 464 Tap 2 (DS) 617 547 469 Tap 3 (Y1) 779 720 633 Tap 4 (Y2) 940 876 812 ^Tap 5 (W1) 937 875 812 Tap 1 (G) 630 557 485 Tap 2 (DS) 630 556 483 Tap 3 (Y1) 803 719 640 Tap 3 (Y1) 803 719 640 Tap 4 (Y2) 981 909 833 ^Tap 5 (W1) 984 909 837	Setting 0.1 0.2 0.3 0.4 Tap 1 (G) 604 514 453 437 Tap 2 (DS) 604 514 453 437 Tap 3 (DS) 604 514 453 437 Tap 3 (Y1) 735 651 577 506 Tap 4 (Y2) 890 826 764 700 ^ Tap 5 (W1) 890 826 764 700 Tap 1 (G) 618 547 464 344 Tap 2 (DS) 617 547 469 351 Tap 3 (Y1) 779 720 633 549 Tap 3 (Y1) 779 720 633 549 Tap 5 (W1) 937 875 812 750 Tap 1 (G) 630 557 485 380 Tap 2 (DS) 630 557 485 380 Tap 2 (DS) 630 556 483 378 Tap 3 (Y1) 803 719		

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

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.

^ Factory setting for heating

Electrical Data

Unit Size Electric Heating		ing Capacity									
(All have electric heat)	kW	BTUH	Blower Current (A)		Total Cu	Total Current (A)		Minimum Circuit Ampacity (A)		Maximum Circuit Breaker Size Per Stage (A)	
	240 V ^[1] 240 V ^[1]		208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V	
	0	0	1.25	1.25	1.25	1.25	1.6	1.6	15	15	
Ē	3	10,236	1.25	1.25	12.1	13.8	15.1	17.2	20	20	
18, 19	5	17,061	1.25	1.25	19.3	22.1	24.1	27.6	25	30	
	6	20,473	1.25	1.25	22.9	26.3	28.6	32.8	30	35	
	8	27,297	1.25	1.25	30.1	34.6	37.7	43.2	40	45	
	0	0	1.9	1.9	1.9	1.9	2.4	2.4	15	15	
	3 ^[2]	10,236	1.9	1.9	12.7	14.4	15.9	18.0	20	20	
23, 24, 25,	5	17,061	1.9	1.9	20.0	22.7	24.9	28.4	25	30	
29, 30	6	20,473	1.9	1.9	23.6	26.9	29.5	33.6	30	35	
	8	27,297	1.9	1.9	30.8	35.2	38.5	44.0	40	45	
-	10 ^[3]	34,121	1.9	1.9	38.0	43.6	47.5	54.5	50	60	

[2] 3 kW is not available in 25, 30 model [3] 10 kW is not available in 23 model

Unit Size	(All have kW BTUH		Blower Current (A) Total Current (A)							
(All have electric heat)					Total Cu	Total Current (A)		Minimum Circuit Ampacity (A)		Maximum Circuit Breaker Size Per Stage (A)
240 V ^[1] 240 V ^[1]	240 V ^[1]	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V	
	0	0	2.0	2.0	2.0	2.0	2.5	2.5	15	15
	3 ^[2]	10,236	2.0	2.0	12.8	14.5	16.0	18.1	20	20
18, 19, 23,	5	17,061	2.0	2.0	20.1	22.8	25.1	28.5	30	30
24, 25, 29, 30	6	20,473	2.0	2.0	23.7	27.0	29.6	33.8	30	35
	8	27,297	2.0	2.0	30.9	35.3	38.6	44.2	40	45
	10 ^[3]	34,121	2.0	2.0	38.1	43.7	47.6	54.6	50	60

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

[2] 3 kW is not available in 25, 30 model

[3] 10 kW is not available in 18, 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



LOUVERED CEILING PANEL

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





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