SG-SMA-06-2
June 2025

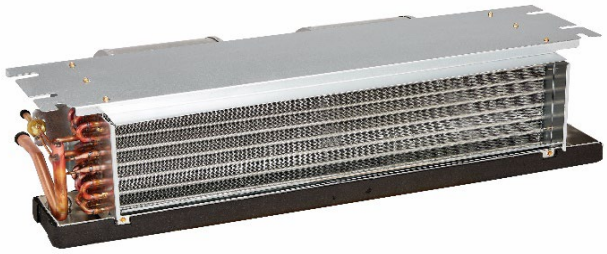
Advanced Distributor Products®

Specification Guide

CP Series

Ceiling/Soffit Mount Air Handlers

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



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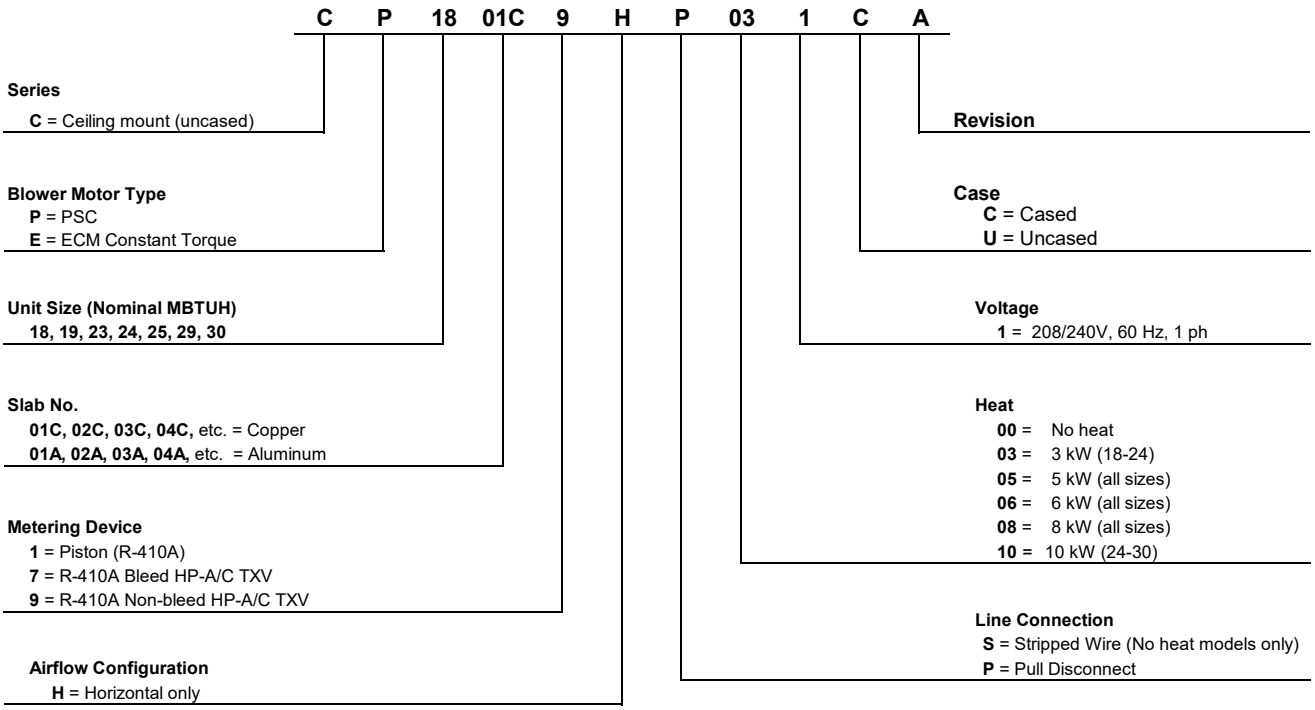
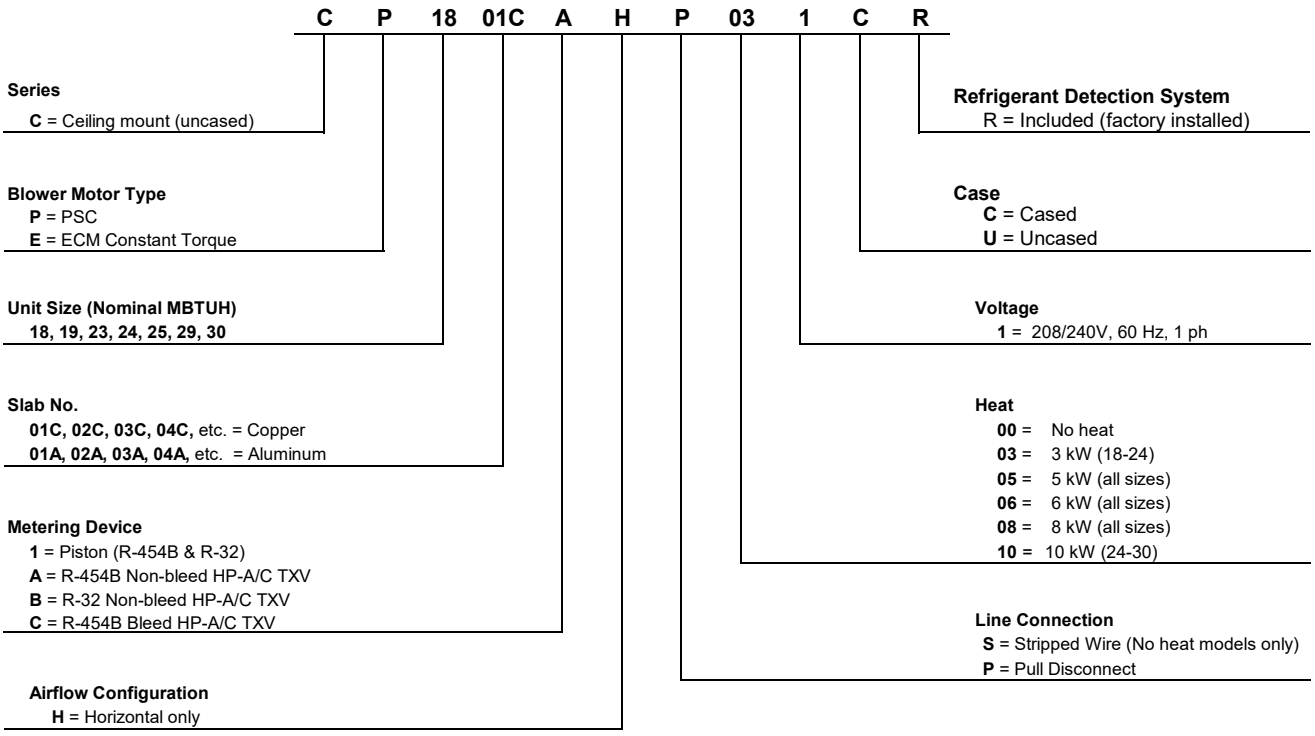
A1 Refrigerants Product Nomenclature



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						
		18	**19**	**23**	**24**	**25**	**29**	**30**
Available Voltage		208/240 V, 60 Hz, 1 ph						
Maximum Elec. Heat Available (kW)		8	8	8	10	10	10	10
Transformer Size and Type		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) Suction (in)		3/4						
Refrigerant Conn. (IDS) Liquid (in)		3/8						
R-410A Piston Size (in)		.049	.049	.053	.053	.053	.059	.059
Max Unit Weight (uncased)		63	68	63	68	73	70	73
Max Shipping Weight (uncased)		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 (cased)		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	Airflow (CFM) vs. External Static Pressure (inches W.C.)				
		0.1	0.2	0.3	0.4	0.5
18, 19	Low - Red	610	536	468	392	316
	High -Black	680	607	532	456	368
23	Low - Red	846	777	702	627	546
	High -Black	902	830	755	667	589
24, 29	Low - Red	833	781	725	658	580
	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 Setting	Airflow (CFM) vs. External Static Pressure (inches W.C.)				
		0.1	0.2	0.3	0.4	0.5
18, 19	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
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
25, 30	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

^ Factory setting for heating.

- 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.

Electrical Data

Unit Size	Electric Heating Capacity		Blower Current (A)		Total Current (A)		Minimum Circuit Ampacity (A)		Maximum Circuit Breaker Size Per Stage (A)	
(All have electric heat)	kW	BTUH								
	240 V[1]	240 V[1]	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V
18, 19	0	0	1.25	1.25	1.25	1.25	1.6	1.6	15	15
	3	10,236	1.25	1.25	12.1	13.8	15.1	17.2	20	20
	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
23, 24, 25, 29, 30	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
	5	17,061	1.9	1.9	20.0	22.7	24.9	28.4	25	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

[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 23 model

Unit Size	Electirc Heating Capacity		Blower Current (A)		Total Current (A)		Minimum Circuit Ampacity (A)		Maximum Circuit Breaker Size Per Stage (A)	
(All have electric heat)	kW	BTUH								
	240 V[1]	240 V[1]	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V
18, 19, 23, 24, 25, 29, 30	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
	5	17,061	2.0	2.0	20.1	22.8	25.1	28.5	30	30
	6	20,473	2.0	2.0	23.7	27.0	29.6	33.8	30	35
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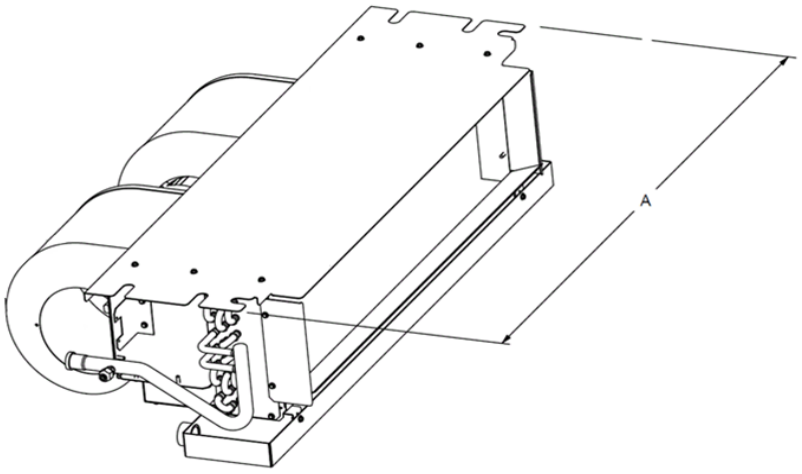
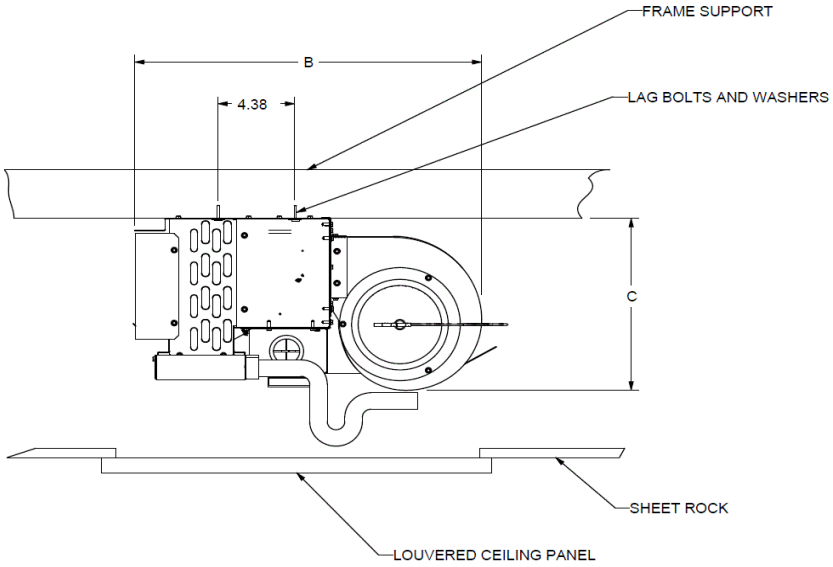
	10[3]	34,121	2.0	2.0	38.1	43.7	47.6	54.6	50	60

[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

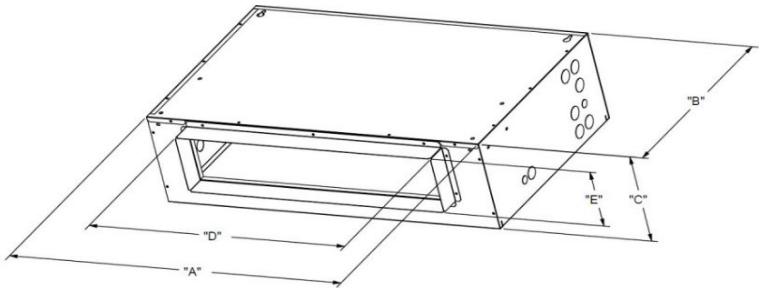
Air Handler	A (in)	B (in)	C (in)
18, 23	37	19.5	10.5
19, 24, 29	43	20.5	10.5
25, 30	49	20.5	10.5





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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