

Specification Guide

PL Series

Premier Indoor Plenum Coils



Contents	Page
Product Features	2
Nomenclature.....	2
Dimensions	3
Airflow Data.....	4

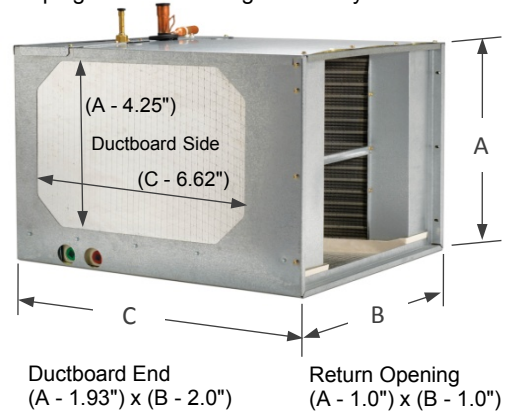


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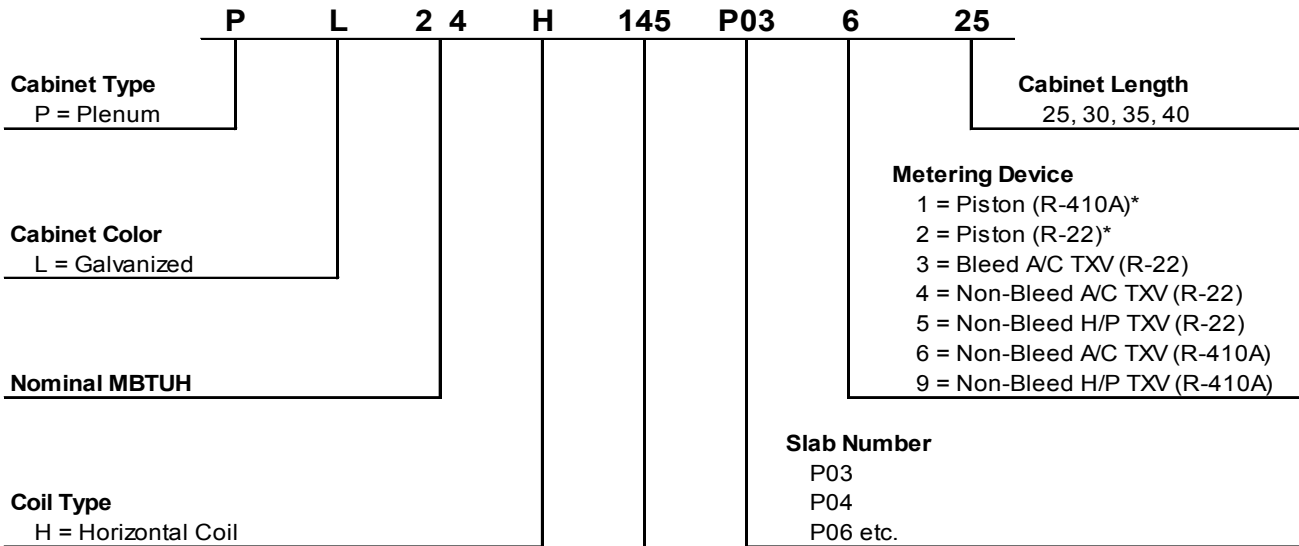
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Product Features

- One-piece cabinet construction for improved strength and rigidity.
- Top panel with only 4 screws for fast and easy coil access.
- UV light knockouts to easily locate and install UV lights.
- "Easy-lift" handle allows easy lifting through tight spaces.
- Furnace mounting bracket included for single person installation.
- Independently certified < 2% air leakage per ASHRAE test standard.
- 5 year Limited Warranty standard; 10 year Limited Warranty available.
- Non-captive panels allow access to inside of cabinet without the need to cut refrigerant lines.
- Heavy gauge cabinets are lined with foil faced insulation— 5/8" on metal panels and 1" duct board on plenum openings.
- Rubber grommet around suction line and dedicated condensate cutouts for reduced air leakage.
- Dual 3/4" FPT condensate drains on front and back of coil allow flexibility to accommodate left or right airflow furnaces.
- Refrigerant connections are 3/8" ODF liquid and 7/8" ODF suction.
- Refrigerant connections in center of coil away from airflow path.
- Coils are air pressure tested at 500 psi, leak tested with helium, sealed with rubber plugs and then charged with dry air.
- Threaded expansion valves available factory installed or as a field installed kit.
- Top refrigerant connections for installation flexibility.
- TXV access port standard on piston models.
- Light weight aluminum coil with aluminum header plates.
- High efficiency lanced fin design.
- Microban® antimicrobial additive to inhibit the growth of mold and mildew in the drain pan.
- Patent pending HydroTEC™ "V" drain pan for improved drainage.
- UV resistant drain pans are molded of high temperature polymer (450° F).
- Secondary drain pan included standard on all models.
- Secondary drain pan locator embossments for easy installation.



Nomenclature



* Piston will always be sized to match the nominal BTU rating of the coil

Installed Piston Sizes		
MBTUH	R-22	R-410A
12	41	41
18	53	49
24	59	53
30	67	59
36	73	67
42	80	73
48	84	76
60	93	93

Note: Secondary drain pan included standard on all models

Dimensions

Slab Number	Nominal Tonnage	Cabinet Height (in) [A]	Cabinet Width (in) [B]	Weight (lbs) by Cabinet Length [C]				Return Opening (in) [Height x Width]	Pallet Quantity
				25"	30"	35"	40"		
P02	1.5 - 2.5	14 / 14.25 / 14.5	21	34	38	-	-	(A - 1) x 20	8
P03	2.0 - 3.0	14 / 14.25 / 14.5	21	-	40	43	-	(A - 1) x 20	8
P04	2.5 - 3.5	17.5	21	38	42	45	-	16.5 x 20	6
P05	2.5 - 4.0	17.5	21	-	-	46	50	16.5 x 20	6
P06	2.5 - 4.0	17.5	21	-	44	47	51	16.5 x 20	6
P07	3.0 - 5.0	21	21	-	-	50	55	20 x 20	4
P08	3.5 - 5.0	21	21	-	-	52	56	20 x 20	4
P09	3.5 - 5.0	24.5	21	-	-	55	59	23.5 x 20	2
P11	1.5 - 2.5	14 / 14.25 / 14.5	21	36	39	-	-	(A - 1) x 20	8
P12	1.5 - 3.0	14 / 14.25 / 14.5	21	-	42	45	-	(A - 1) x 20	8
P13	1.5 - 3.5	17.5	21	41	44	48	-	16.5 x 20	6
P14	2.5 - 4.0	17.5	21	-	-	49	53	16.5 x 20	6
P15	3.0 - 4.0	17.5	21	-	-	51	55	16.5 x 20	6
P16	3.0 - 5.0	21	21	-	-	54	58	20 x 20	4
P17	3.0 - 5.0	21	21	-	-	56	60	20 x 20	4
P18	3.0 - 5.0	24.5	21	-	-	59	64	23.5 x 20	2
P19	3.5 - 5.0	21	21	-	-	61	65	20 x 20	4
P20	3.5 - 5.0	24.5	21	-	-	65	69	23.5 x 20	2
P25	2.5 - 3.0	17.5	21	-	43	46	-	16.5 x 20	6
P26	2.0 - 4.0	17.5	21	-	-	49	53	16.5 x 20	6
P27	3.0 - 5.0	21	21	-	-	53	57	20 x 20	4
P28	3.0 - 5.0	21	21	-	-	52	56	20 x 20	4
P29	3.0 - 5.0	21	21	-	-	54	58	20 x 20	4
P30	3.5 - 5.0	21	21	-	-	-	74	20 x 20	4
P36	3.0 - 4.0	17.5	21	-	-	48	52	16.5 x 20	6
P38	3.0 - 4.0	17.5	21	-	-	49	53	16.5 x 20	6
P42	1.5 - 3.0	14 / 14.25 / 14.5	21	-	44	47	-	(A - 1) x 20	8
P43	1.5 - 3.0	14 / 14.25 / 14.5	21	-	-	-	59	(A - 1) x 20	8
P44	1.5 - 3.0	14 / 14.25 / 14.5	21	-	-	47	-	(A - 1) x 20	8
P45	2.5 - 3.5	17.5	21	-	52	55	-	16.5 x 20	6
P46	2.0 - 4.0	17.5	21	-	-	-	61	16.5 x 20	6
P47	2.0 - 3.0	21	21	-	57	60	-	20 x 20	4
P48	2.0 - 3.0	24.5	21	-	60	64	-	23.5 x 20	2
P49	4.0 - 5.0	24.5	21	-	-	55	59	23.5 x 20	2
P50	3.5 - 5.0	21	21	-	-	59	63	20 x 20	4
P51	3.5 - 5.0	24.5	21	-	-	62	67	23.5 x 20	2
P52	3.5 - 5.0	21	21	-	-	64	68	20 x 20	4
P53	3.5 - 5.0	24.5	21	-	-	69	73	23.5 x 20	2
P56	4.0 - 5.0	24.5	21	-	-	-	79	23.5 x 20	2
P57	3.0 - 5.0	21	21	-	-	60	64	20 x 20	4
P58	3.5 - 5.0	24.5	21	-	-	60	64	23.5 x 20	2
P59	3.5 - 5.0	24.5	21	-	-	61	65	23.5 x 20	2
P62	1.5 - 2.5	17.5	21	37	40	-	-	16.5 x 20	6
P63	2.0 - 3.0	17.5	21	38	41	-	-	16.5 x 20	6
P64	2.5 - 3.5	21	21	41	44	49	-	20 x 20	4
P65	2.5 - 3.5	21	21	41	45	49	52	20 x 20	4
P66	3.0 - 4.0	21	21	42	46	50	53	20 x 20	4
P67	3.0 - 5.0	24.5	21	45	49	52	56	23.5 x 20	2
P68	3.5 - 5.0	24.5	21	-	-	54	58	23.5 x 20	2
P71	1.5 - 2.5	17.5	21	39	43	-	-	16.5 x 20	6
P72	2.0 - 3.0	17.5	21	40	44	-	-	16.5 x 20	6
P73	1.5 - 3.5	21	21	44	47	52	-	20 x 20	4
P74	2.5 - 4.0	21	21	44	48	52	55	20 x 20	4
P75	3.0 - 4.0	21	21	45	49	53	56	20 x 20	4
P76	3.0 - 5.0	24.5	21	48	52	55	60	23.5 x 20	2
P77	3.5 - 5.0	24.5	21	-	-	58	62	23.5 x 20	2
P78	2.0 - 4.0	17.5	21	-	-	52	57	16.5 x 20	6
P79	3.5 - 5.0	24.5	21	-	-	63	67	23.5 x 20	2
P87	2.0 - 3.0	24.5	21	-	59	62	-	23.5 x 20	2
P88	2.5 - 3.0	21	21	49	53	57	-	20 x 20	4
P89	2.5 - 4.0	21	21	42	45	50	53	20 x 20	4

Airflow Data

Slab Number	Nominal Tonnage	^ Air Pressure Drop (in WC) by CFM							
		600	800	1000	1200	1400	1600	1800	2000
P02	1.5 - 2.5	0.17	0.27	0.40	-	-	-	-	-
P03	2.0 - 3.0	-	0.16	0.25	0.35	-	-	-	-
P04	2.5 - 3.5	-	-	0.17	0.23	0.34	-	-	-
P05	2.5 - 4.0	-	-	0.13	0.19	0.25	0.32	-	-
P06	2.5 - 4.0	-	0.09	0.13	0.18	0.24	0.27	-	-
P07	3.0 - 5.0	-	-	-	0.14	0.19	0.24	0.30	0.35
P08	3.5 - 5.0	-	-	-	0.13	0.17	0.21	0.27	0.32
P09	3.5 - 5.0	-	-	-	-	0.15	0.18	0.23	0.27
P11	1.5 - 2.5	0.15	0.25	0.37	-	-	-	-	-
P12	1.5 - 3.0	0.11	0.17	0.25	0.35	-	-	-	-
P13	1.5 - 3.5	0.08	0.14	0.20	0.27	0.36	-	-	-
P14	2.5 - 4.0	-	-	0.17	0.24	0.32	0.41	-	-
P15	3.0 - 4.0	-	-	0.14	0.20	0.28	0.35	-	-
P16	3.0 - 5.0	-	-	-	0.17	0.23	0.29	0.36	0.43
P17	3.0 - 5.0	-	-	-	0.14	0.19	0.24	0.25	0.36
P18	3.0 - 5.0	-	-	-	0.11	0.14	0.18	0.23	0.28
P19	3.5 - 5.0	-	-	-	-	0.22	0.33	0.41	0.48
P20	3.5 - 5.0	-	-	-	-	0.19	0.24	0.29	0.34
P25	2.5 - 3.0	-	-	0.15	0.21	-	-	-	-
P26	2.0 - 4.0	-	0.08	0.11	0.16	0.21	0.27	-	-
P27	3.0 - 5.0	-	-	-	0.11	0.15	0.18	0.23	0.28
P28	3.0 - 5.0	-	-	-	0.14	0.19	0.23	0.29	0.35
P29	3.0 - 5.0	-	-	-	0.10	0.12	0.15	0.19	0.23
P30	3.5 - 5.0	-	-	-	-	0.15	0.19	0.24	0.29
P36	3.0 - 4.0	-	-	-	0.20	0.27	0.33	-	-
P38	3.0 - 4.0	-	-	-	0.18	0.25	0.31	-	-
P42	1.5 - 3.0	0.09	0.14	0.20	0.28	-	-	-	-
P43	1.5 - 3.0	0.07	0.12	0.17	0.24	-	-	-	-
P44	1.5 - 3.0	0.06	0.10	0.14	0.20	-	-	-	-
P45	2.5 - 3.5	-	-	0.19	0.27	0.35	-	-	-
P46	2.0 - 4.0	-	0.05	0.08	0.11	0.15	0.19	-	-
P47	2.0 - 3.0	-	0.11	0.16	0.17	-	-	-	-
P48	2.0 - 3.0	-	0.09	0.14	0.19	-	-	-	-
P49	4.0 - 5.0	-	-	-	-	0.16	0.20	0.25	0.30
P50	3.5 - 5.0	-	-	-	-	0.16	0.21	0.27	0.33
P51	3.5 - 5.0	-	-	-	-	0.12	0.15	0.19	0.23
P52	3.5 - 5.0	-	-	-	-	0.20	0.26	0.32	0.39
P53	3.5 - 5.0	-	-	-	-	0.17	0.22	0.27	0.33
P56	4.0 - 5.0	-	-	-	-	-	0.16	0.21	0.25
P57	3.0 - 5.0	-	-	-	0.14	0.18	0.24	0.29	0.37
P58	3.5 - 5.0	-	-	-	-	0.17	0.22	0.28	0.33
P59	3.5 - 5.0	-	-	-	-	0.18	0.23	0.29	0.34
P62	1.5 - 2.5	0.13	0.22	0.32	-	-	-	-	-
P63	2.0 - 3.0	-	0.17	0.24	0.33	-	-	-	-
P64	2.5 - 3.5	-	-	0.19	0.26	0.34	-	-	-
P65	2.5 - 3.5	-	-	0.17	0.23	0.30	-	-	-
P66	3.0 - 4.0	-	-	-	0.18	0.24	0.30	-	-
P67	3.0 - 5.0	-	-	-	0.16	0.20	0.25	0.31	0.37
P68	3.5 - 5.0	-	-	-	-	0.15	0.19	0.23	0.27
P71	1.5 - 2.5	0.15	0.24	0.35	-	-	-	-	-
P72	2.0 - 3.0	-	0.19	0.27	0.37	-	-	-	-
P73	1.5 - 3.5	0.08	0.14	0.21	0.29	0.37	-	-	-
P74	2.5 - 4.0	-	-	0.19	0.25	0.33	0.41	-	-
P75	3.0 - 4.0	-	-	-	0.20	0.26	0.33	-	-
P76	3.0 - 5.0	-	-	-	0.17	0.22	0.28	0.34	0.40
P77	3.5 - 5.0	-	-	-	-	0.19	0.21	0.27	0.34
P78	2.0 - 4.0	-	0.09	0.12	0.17	0.23	0.30	-	-
P79	3.5 - 5.0	-	-	-	-	0.22	0.28	0.34	0.40
P87	2.0 - 3.0	-	0.09	0.13	0.17	-	-	-	-
P88	2.5 - 3.0	-	-	0.21	0.29	-	-	-	-
P89	2.5 - 4.0	-	-	0.13	0.18	0.23	0.29	-	-

^ Air pressure drop data is under dry coil conditions. For wet coil conversion at standard AHRI conditions, use 1.3 multiplier.