SG-PLC-A2L-01
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Advanced Distributor Products®

Specification Guide

PL Series A2L Refrigerants

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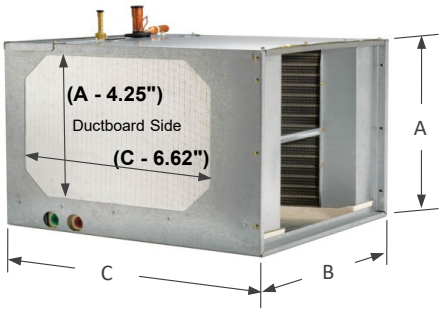
2140 Lake Park Blvd, Richardson, TX 75080
www.adpnow.com

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 near 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.
- Patented 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.
- R-454B, R-32, AC & Heat Pump compatible with Refrigerant Detection System.
- Refrigerant Detection System Options:
  - Field Installed Sensor and board with factory installed bracket.
  - Factory installed sensor and mitigation board in box.
  - Factory installed sensor only without board for compatible furnaces.



Ductboard End
(A - 1.93") x (B - 2.0")

Return Opening
(A - 1.0") x (B - 1.0")

Product Nomenclature

PL 24 H 145 P12 A 35 R

Cabinet Type
PL = Plenum

Nominal MBTUH

Coil Type
H = Horizontal Coil

Coil Height
145 = 14.50"
175 = 17.50"
210 = 21.00"
245 = 24.50"

Slab Number
P13
P14
P16 etc.

Note: Secondary drain pan included standard on all models

Refrigerant Detection System (Field Configurable)
R = RDS Controller & Sensor (Factory Installed)
L = Leak Detection Sensor (Factory Installed)
N = Not Included (Field Installed)

Cabinet Length
35, 40

Refrigerant Type & Metering Device (Field Configurable)
1 = Piston (R-454B & R-32) *
A = R-454B Non-bleed HP-A/C TXV
B = R-32 Non-bleed HP-A/C TXV
C = R-454B Bleed HP-A/C TXV

*R-454B Piston factory installed to match the nominal BTU rating of the coil.

R-454B Pistons		
MBTUH		Size
18	=	46
24	=	53
30	=	59
36	=	65
42	=	70
48	=	76
60	=	84

R-32 Pistons		
MBTUH		Size
18	=	41
24	=	46
30	=	53
36	=	57
42	=	62
48	=	65
60	=	76

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
					35"	40"		
Core Slabs	**P12**	1.5 - 3.0	14.5	21	45	-	13.5 x 20	8
	P13	1.5 - 3.5	17.5	21	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
	P19	3.5 - 5.0	21	21	61	65	20 x 20	4
	P21	1.5 - 3.0	14.5	21	48	49	13.5 x 20	8
	P29	3.0 - 5.0	21	21	54	58	20 x 20	4
	P30	3.5 - 5.0	24.5	21	-	74	20 x 20	2
	P38	3.0 - 4.0	17.5	21	49	53	16.5 x 20	6
	P42	1.5 - 3.0	14.5	21	47	-	13.5 x 20	8
	P44	1.5 - 3.0	14.5	21	47	-	13.5 x 20	8
	P45	2.5 - 3.5	17.5	21	55	-	16.5 x 20	6
	P52	3.5 - 5.0	21	21	64	68	20 x 20	4
	P74	2.5 - 4.0	21	21	52	55	20 x 20	4
	P75	3.0 - 4.0	21	21	53	56	20 x 20	4
	P78	2.0 - 4.0	17.5	21	52	57	16.5 x 20	6
Non-Core Slabs	**P03**	2.0 - 3.0	14.5	21	43	-	13.5 x 20	8
	P04	2.5 - 3.5	17.5	21	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	47	51	16.5 x 20	6
	P07	3.0 - 5.0	21	21	50	55	20 x 20	4
	P11	1.5 - 2.5	14.5	21	42	-	13.5 x 20	8
	P18	3.0 - 5.0	24.5	21	59	64	23.5 x 20	2
	P22	1.5 - 3.0	14.5	21	-	52	13.5 x 20	8
	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
	P43	1.5 - 3.0	14.5	21	-	59	13.5 x 20	8
	P46	2.0 - 4.0	17.5	21	-	61	16.5 x 20	6
	P47	2.0 - 3.0	21	21	60	-	20 x 20	4
	P50	3.5 - 5.0	21	21	59	63	20 x 20	4
	P57	3.0 - 5.0	21	21	60	64	20 x 20	4
	P72	2.0 - 3.0	17.5	21	48	-	16.5 x 20	6
	P76	3.0 - 5.0	24.5	21	55	60	23.5 x 20	2
	P77	3.5 - 5.0	24.5	21	58	62	23.5 x 20	2
	P79	3.5 - 5.0	24.5	21	63	67	23.5 x 20	2

Airflow Data

	Slab Number	Nominal Tonnage	^ Air Pressure Drop (in WC) by CFM							
			600	800	1000	1200	1400	1600	1800	2000
Core Slabs	**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	-	-	0.10	0.14	0.19	0.24	0.25	0.36
	P19	3.5 - 5.0	-	-	-	-	0.22	0.33	0.41	0.48
	P21	1.5 - 3.0	0.09	0.13	0.20	0.27	-	-	-	-
	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
	P38	3.0 - 4.0	-	-	-	0.18	0.25	0.31	-	-
	P42	1.5 - 3.0	0.09	0.14	0.20	0.28	-	-	-	-
	P44	1.5 - 3.0	0.06	0.10	0.14	0.20	-	-	-	-
	P45	2.5 - 3.5	-	-	0.19	0.27	0.35	-	-	-
	P52	3.5 - 5.0	-	-	-	-	0.20	0.26	0.32	0.39
	P74	2.5 - 4.0	-	-	0.19	0.25	0.33	0.41	-	-
	P75	3.0 - 4.0	-	-	-	0.20	0.26	0.33	-	-
	P78	2.0 - 4.0	-	0.09	0.12	0.17	0.23	0.30	-	-
Non-Core Slabs	**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
	P11	1.5 - 2.5	0.15	0.25	0.37	-	-	-	-	-
	P18	3.0 - 5.0	-	-	-	0.11	0.14	0.18	0.23	0.28
	P22	1.5 - 3.0	0.06	0.09	0.13	0.18	-	-	-	-
	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
	P43	1.5 - 3.0	0.07	0.12	0.17	0.24	-	-	-	-
	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	-	-	-	-
	P50	3.5 - 5.0	-	-	-	-	0.16	0.21	0.27	0.33
	P57	3.0 - 5.0	-	-	-	0.14	0.18	0.24	0.29	0.37
	P72	2.0 - 3.0	-	0.19	0.27	0.37	-	-	-	-
	P76	3.0 - 5.0	-	-	-	0.17	0.22	0.28	0.34	0.40
	P77	3.5 - 5.0	-	-	0.11	0.14	0.19	0.21	0.27	0.34
	P79	3.5 - 5.0	-	-	-	-	0.22	0.28	0.34	0.40

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

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