

PRA 11-64

Refrigerated Compressed Air Dryers

PRA 11-64 SCFM refrigerated air dryers from PREMIER are engineered to be used with 2HP – 15HP air compressors. They incorporate a specially-designed heat exchanger assembly, which includes a precool/reheater exchanger for reduced operating costs while eliminating pipe sweating.

A unique refrigeration system that modulates the dryer's fan operation in relation to dryer load simplifies operation and contributes to the long service life of the dryer.



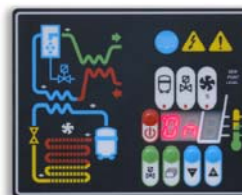
PRA11B – PRA64B Dryers Provide:

- **Low pressure drop** – < 1 psid
- **Compact and light weight** – Minimal space requirements
- **Quiet operation** – Allows flexibility of dryer placement
- **Precooler/Reheater** – Eliminates pipe sweating; Lower operating costs
- **Reliable operation** – No hot gas bypass valve to adjust

Standard Features Include:

- **Microprocessor Controller**
- **Variable Speed Fan Operation**
- **User-adjustable Timed Solenoid Drain**
- **Precooler-Reheater Exchanger**
- **NEMA 12**
- **UL Listed**
- **Powder-coated Cabinet**
- **R-134A Refrigerant**

PRA dryers are equipped with a microprocessor controller that controls and monitors critical dryer parameters. The controller's integrated touchpad is used to adjust the settings on the dryer's timed solenoid drain valve to insure proper removal of moisture and contaminants from the airstream. Indication of refrigerant compressor-running, drain open, fan operation and fault messages are visible on the display.



PRA Technical Specifications

MODEL	PRA11B	PRA15B	PRA25B	PRA32B	PRA64B
Capacity SCFM	11	15	25	32	64
Refrigerant	R-134a	R134a	R-134a	R-134a	R-134a
(A) Width in.	12	15 3/8	15 3/8	15 3/8	16 9/16
(B) Depth in.	14 3/16	17	17	17	20 5/16
(C) Height in.	16 1/16	17 3/8	17 3/8	17 3/8	21 11/16
Weight lb.	40	40	78	62	78
Air Connection In/Out	3/8" FPT	1/2" FPT	1/2" FPT	1/2" FPT	3/4" FPT
Condensate Drain	6 mm	6 mm	6 mm	6 mm	6 mm
Refrig. Comp. HP	1/10	1/10	1/6	1/4	1/2
Max. Work. Press. psig	203	203	203	203	203
Operating KW*	.22	.22	.27	.49	.66
Voltages	115-1-60	115-1-60	115-1-60	115-1-60	115-1-60

Performance data obtained as per ISO 7183, Table 2, Option A2.

Rated at 100 psig, 100°F inlet air, 100°F ambient air.

* Average kilowatts per hour of dryer operation at full rated capacity.

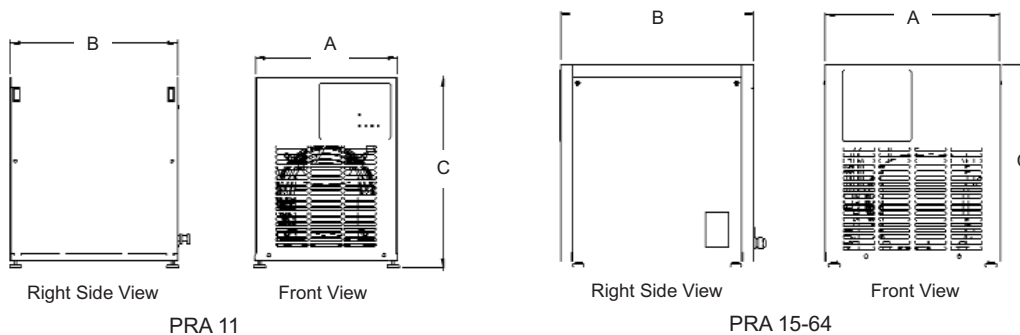
Correction Factors for other-than-standard conditions.

Inlet Air Pressure	psi	70	85	100	115	130	145	160	175	190	205
	P-Factor	0.82	0.93	1	1.07	1.12	1.16	1.19	1.21	1.23	1.25
Air Inlet Temperature	°F	80	90	100	110	120	130	140			
	T-Factor	1.3	1.18	1	0.8	0.6	0.42	0.25			
Ambient Air Temperature	°F	80	90	100	105	110	122				
	A-Factor	1.1	1.05	1	0.93	0.83	0.65				

Calculation: Corrected Flow = User Flow Rate ÷ P-Factor ÷ T-Factor ÷ A-Factor.
Select dryer that meets or exceeds corrected flow capacity.

Example: User's Conditions: 30 SCFM / 85 psig / 110°F inlet / 105°F ambient

Solution: Corrected Flow = 30 SCFM ÷ .93 ÷ .8 ÷ .93 = 43.3 SCFM. **Size to model PRA64B**



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