

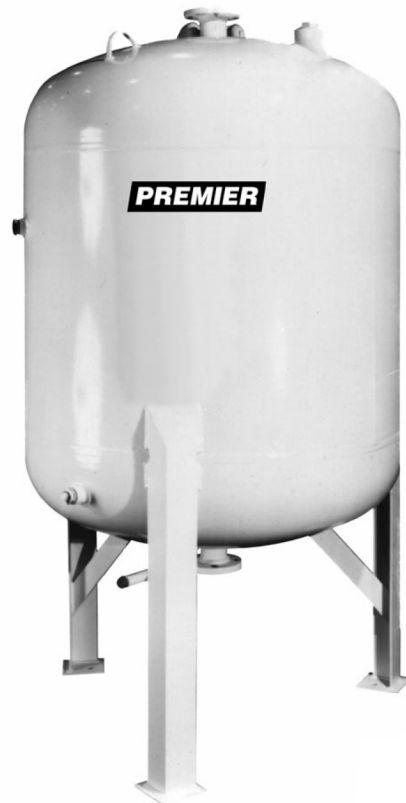
# PQ Series

## Deliquescent Compressed Air Dryers

PQ Series deliquescent compressed air dryers use a time-tested, field-proven design that provides efficient air treatment and long service life for a wide range of uses. The dryers use no electrical energy, have no moving parts to wear out or adjust, and use no refrigerant or CFC's. Compressed air pressure dew point is automatically reduced by at least 20°F than the air at the inlet to the dryer. Moisture is removed from the air as it passes through a bed of moisture-absorbing desiccant that is non-toxic and non-polluting. PQ Series dryers require periodic replenishment of the desiccant – level is monitored through a sight window. Desiccant usage is based on air flow volume through the dryer. Dryers can be installed indoors or out and deliver a compensating dew point for year-round dependability with a pressure drop of less than 1%.

### **PQ Series Air Treatment:**

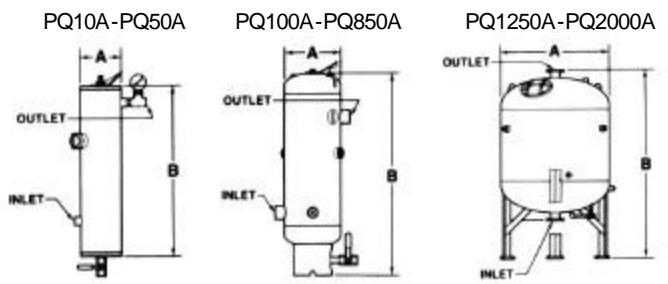
- **20°F Dew Point Suppression**  
Treatment for clean, dry compressed air applications
- **Low Pressure Drop**  
Minimizes Compressed Air System Energy Costs
- **Low Initial Cost and Operating Cost**  
Single-vessel design requires no electricity
- **Sight Window**  
Convenient deliquescent level check
- **Simple Installation**  
Requires only compressed air and drain connection
- **Durable Construction and Finish**  
Vessel manufactured in accordance with ASME Section VIII, Division 1 requirements



See reverse side for technical specifications ...

# PQ Series

## Deliquescent Compressed Air Dryers



### Technical Specifications

Model	Capacity @ 50 psig SCFM	Capacity @ 75 psig SCFM	Capacity @ 100 psig SCFM	Capacity @ 125 psig SCFM	Capacity @ 150 psig SCFM	Capacity @ 200 psig SCFM	Dimensions Dia. x Ht.* Inches	Shipping Weight Lbs.	Replacement Deliquescent Lbs.	IN/OUT Connection Inches
PQ10A	5.6	7.8	10	12.2	14.4	19	5 x 33	65	25	¾ NPT
PQ50A	28	39	50	61	72	94	9 x 40	135	50	¾ NPT
PQ100A	56	78	100	122	144	187	13 x 51	280	150	2 NPT
PQ155A	87	121	155	189	223	290	16 x 55	450	250	2 NPT
PQ250A	141	196	250	304	359	468	20 x 56	700	400	2 NPT
PQ375A	212	293	375	457	538	702	24 x 59	870	500	2 NPT
PQ625A	353	489	625	761	897	1170	30 x 64	1380	750	3 NPT
PQ850A	479	665	850	1035	1221	NA	37 x 70	1900	1150	3 FLG
PQ1250A	705	978	1250	1522	1795	NA	43 x 86	2900	1700	4 FLG
PQ1500A	846	1173	1500	1827	2154	NA	49 x 91	4425	2300	4 FLG
PQ2000A	1128	1564	2000	2436	2872	NA	55 x 94	5425	2900	4 FLG

\* Overall Dimension

### Standard Features

PQ10A – PQ50A:

- Manual drain valve – ½" NPT
- One sight window for deliquescent level check
- Wall mounting configuration
- Initial deliquescent fill (loose)

PQ100A – PQ2000A

- Manual drain valve – 1" NPT
- Two sight windows for deliquescent level check
- Pressure relief valve connection
- Initial deliquescent fill (loose)

### Sizing Procedure

To select the correct PREMIER PQ model for your application:

- 1) determine the highest anticipated flow volume from the air compressor (peak load volume).  
If this must be estimated, use a ratio of 4-5 scfm per compressor horsepower.
- 2) determine the minimum operating air pressure
- 3) In the chart above, locate the column for the minimum operating pressure and read down to the capacity that meets or exceeds the scfm volume requirement, then find the corresponding PQ dryer model in the left column.

**Replacement deliquescent is available in tablet form through PREMIER Air Systems**

### Optional Features

PQ10A – PQ850A:

- Pressure and temperature gauge assembly  
0-300 psig; 20-150°F

### PREMIER Air Systems

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