

# PH 20-1200<sub>scfm</sub>

## Heatless Desiccant Compressed Air Dryers

PH heatless desiccant dryers from PREMIER provide economical air treatment for critical, moisture-sensitive, compressed air applications. These dryers use desiccant adsorption in a twin-tower design to dry air to  $-40^{\circ}\text{F}$  dew point. Heatless regeneration is automatically controlled providing continuous drying operation.

PREMIER'S C-Series dryers (90 – 1200 scfm) incorporate many design advantages. The C-Series' low profile permits shipment of dryers by common carrier, thereby saving shipping costs. Upper and lower manifold piping is positioned to permit easy access to all valves and indicators. Pneumatic switching and purge valves are constructed with enhanced seal materials for extended service life. Options are available to allow configuration of all PH dryers to address all applications.

### PH 20-1200 scfm Performance:

- **$-40^{\circ}\text{F}$  Dew Point**
- **Heatless Regeneration**
- **Automatic Operation**
- **Reliable Controls and Valves**



### Technical Specifications

Model Number	Capacity scfm $-40^{\circ}\text{F}$	IN/OUT Connection Size	Dimensions W" x D" x H"	Shipping Weight (lbs.)	Replacement Desiccant for Both Towers (lbs.)
PH20B	20	1/2" NPT	15 x 22 x 31	180	22
PH30B	30	1/2" NPT	15 x 22 x 44	250	44
PH40B	40	3/4" NPT	15 x 22 x 44	265	44
PH60B	60	3/4" NPT	15 x 22 x 56	350	65
PH90C	90	1" NPT	40.5 x 30 x 63	531	100
PH120C	120	1" NPT	40.5 x 30 x 63	563	134
PH160C	160	1 1/2" NPT	44.5 x 32 x 66	707	192
PH200C	200	1 1/2" NPT	44.5 x 32 x 66	731	236
PH250C	250	1 1/2" NPT	48.5 x 32 x 67	869	290
PH300C	300	2" NPT	48.5 x 32 x 67	924	344
PH400C	400	2" NPT	52.5 x 32 x 68	1115	470
PH500C	500	2" NPT	56.5 x 34 x 82	1564	638
PH600C	600	2" NPT	56.5 x 34 x 82	1664	748
PH800C	800	3" NPT	64 x 42 x 88	2017	900
PH1000C	1000	3" NPT	64 x 42 x 88	2237	1100
PH1200C	1200	3" NPT	64 x 42 x 88	2424	1270

*Capacity based on 100 psig inlet air pressure;  $100^{\circ}\text{F}$  inlet air temperature;  $100^{\circ}\text{F}$  ambient air temperature.*

See reverse side for standard and optional features.

#### PREMIER Air Systems

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## Standard Features

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- Twin-tower design
- Power ON light and tower sequence lights
- Pressure relief valves (PH90C - PH1200C)
- 115 Volt electrical
- Moisture indicator (PH90C – PH1200C)
- Control air line filter (PH90C – PH1200C)
- ¼" Activated alumina desiccant
- Tower Pressure Gauges – (PH90C – PH1200C)
- Removable stainless steel retainer screens
- Desiccant FILL and DRAIN ports
- ASME/CRN stamped vessels (PH90C - PH1200C)
- Adjustable purge control (PH90C – PH1200C)
- NEMA 1 control panel
- Shipped with desiccant in towers

## Factory Installed Options

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- **Mounted Filters** – Coalescing prefilter protects desiccant media; particulate afterfilter protects compressed air equipment
- **Failure-To-Shift Indication** – Automatically monitors for proper sequencing and operation of valves and dryer through the controller. A visual alarm is activated in the event of valve-shift failure.
- **High Humidity Alarm** – (PH90C – PH1200C) Monitors outlet air stream for high humidity condition. A visual alarm is activated if high humidity exists.
- **Moisture Load Control** – (PH90C – PH1200C) Allows for reduction in purge air consumption by monitoring moisture load in desiccant media in each tower. Purge valves remain closed and flow valves cycle normally during periods of low air demand (low water loading). Operating cost savings result from a significant reduction in purge air consumption. Tower sensors signal the controller to start tower regeneration sequence when desiccant media becomes saturated.
- **Tower Pressure Gauges** (set of two) – (PH20B – PH60B) Accurately monitor the air pressure within individual towers to monitor system conditions.
- **Tower Relief Valves** (set of two) – (PH20B – PH60B) Allows for air exhaust of dryer vessels, should excessive pressure conditions exist.
- **Moisture Indicator** – (PH20B – PH60B) Continually monitors outlet air stream for excessive moisture. Should such a moisture condition occur, indicator color turns from blue to gray.

## Replacement Desiccant Media

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¼" activated alumina beads are available for desiccant replacement.  
Supplied in 50 pound bags: PN 698350 B

AFFORDABLE AND RELIABLE COMPRESSED AIR TREATMENT



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