



MANUFACTURED

*with high-quality components
and innovative techniques*

DESIGNED

*for economical,
trouble-free performance
and long-life reliability*



SUPPORTED

*by a world-wide distribution network of
compressed air management consultants*

Featuring



PH SERIES HEATLESS REGENERATIVE AIR/GAS DRYERS

WORLD LEADERS IN COMPRESSED AIR & GAS SYSTEM ENGINEERING



Pneumatech's

Features and Dryer Options

Here's How it Works!

Saturated compressed air enters the dryer and passes over the desiccant where moisture in the air is adsorbed onto the desiccant beads providing dew points of -40°F to -100°F . A portion of the dried air is redirected to the off-line tower to remove the adsorbed moisture during the regeneration process. Pneumatech uses large diameter Activated Alumina at the bottom of the desiccant bed as an Active Bed Support. This is used in place of a metal screen to improve performance and increase the capacity of the desiccant bed.

Exclusive Pneumatech Features

- Digital MicroProcessor Control (DMP)
- Active Desiccant Bed Support
- Trouble-free maintenance and easily serviced
- Simple design and operation
- NEMA cycle: 5 or 10 minutes, selectable
- Vessels designed for minimal air velocity to prevent desiccant fluidization and erosion
- Maximum contact time
- Low pressure drop – less than 3 PSID at rated flow
- 25 years of experience manufacturing regenerative dryers
- Standard and custom packages available

Options:

- Pneumatech's Dew Point Demand System (DPD):
 - ◇ Can extend the drying cycle without purging
 - ◇ Senses the dew point at the outlet of the dryer
 - ◇ Is equipped with adjustable dew point settings
 - ◇ Reduces purge loss
 - ◇ Extends valve life
 - ◇ Includes a High Humidity Alarm
 - ◇ Has digital dew point display
- High Humidity Alarm*
- Failure to Shift Alarm*
- Moisture Indicator
- -100°F Dew Point
- Filter Mounting
- Severe Duty Paint
- Option packages are available which combine more popular options at a discount

*Dry contacts available for these alarms



Introducing Cycle Sight™

Pneumatech's Newest Operator Interface

Introducing the Exclusive Pneumatech DMP Control featuring Cycle Sight™

The DMP Control has been custom engineered to facilitate the operation of Pneumatech PH-Series Heatless Regenerative Dryers.



DMP Control Benefits:

- Dry Contacts for Alarm Outputs
- LED Sequence Indicators in accordance with options selected
- Cycle Advance push button (1 or 30 seconds)
- Displays actual sequence time in minutes
- 5 or 10 minute NEMA cycle selector
- Non-volatile memory – retains last cycle step
- Dew Point Demand cycle indication (optional)

Digital/LCD Display Indicates:

- Tower Switching
- Actual Sequence Time
- L/R Tower Drying
- L/R Tower Regenerating



Pneumatech's newest operator interface for regenerative dryers.

Standard Features

- -40°F outlet dew point
- Digital MicroProcessor (DMP) Control
- User-friendly dryer sequence indicator with LCD
- 10 minute NEMA cycles
- All dryers are rated for full standard conditions
 - 100 PSIG and 100°F inlet air temperature
 - 150 PSIG maximum design pressure
 - 120°F maximum inlet air temperature
- Counter flow drying and regenerating
- Automatic repressurization
- NEMA Class 4 enclosure
- 115-1-60 voltage
- High quality, 2-way pilot operated inlet switching valves (non-lubricated)*
- Removable inlet and outlet stainless steel screens designed for proper air diffusion and desiccant retention
- Designed for minimum pressure drop – less than 3 PSID at rated flow

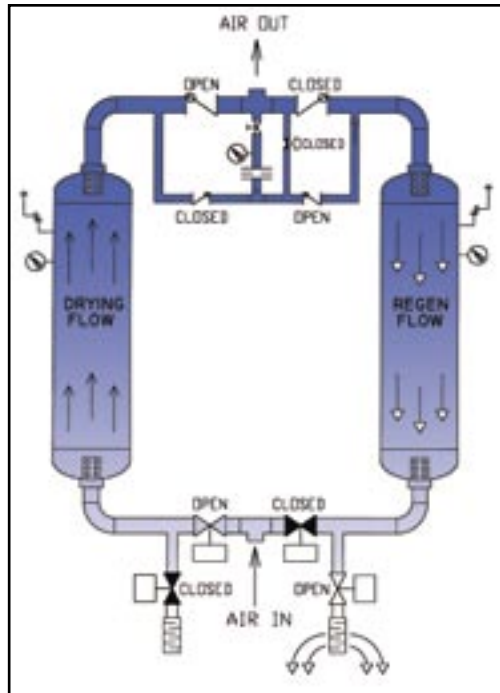
- Towers meet ASME and CRN requirements
- Extra tower corrosion allowance
- Integrally mounted floor stand to minimize the floor space requirements. Pre-piped and wired in a compact package for easy installation
- Purge flow indicator with adjustment valve (PH-300 and larger)
- Purge muffler to reduce exhaust noise
- Separate desiccant fill and drain ports
- Pilot air filter and service valve for reliable operation
- Relief valve and pressure gauge included
- Industrial enamel paint finish
- Inlet valves and major components are commercially available and nonproprietary

*Models PH-25 to PH-100 use Ball style valves with Teflon® seats and seals.

Models PH-150 to PH-3100 use wafer style butterfly valves.

SPECIFICATIONS

MODEL	DIMENSIONS L" x W" x H"	DESSICANT LBS/TOWER	APPROX. SHIPPING WEIGHT (LBS)	RATED CAP. SCFM	PURGE FLOW	CONN IN & OUT
PH-25	34 x 16 x 63	16	380	25	3.5	1/2" NPT
PH-35	38 x 20 x 69	23	390	35	4.9	3/4" NPT
PH-50	41 x 20 x 67	33	450	50	7	3/4" NPT
PH-75	42 x 22 x 64	50	500	75	10.5	1" NPT
PH-100	42 x 22 x 78	65	550	100	14	1" NPT
PH-150	46 x 24 x 79	100	600	150	21	1 1/2" NPT
PH-200	48 x 26 x 76	130	775	200	28	1 1/2" NPT
PH-250	48 x 26 x 88	165	800	250	35	1 1/2" NPT
PH-300	56 x 28 x 83	195	1050	300	42	2" NPT
PH-350	56 x 29 x 93	230	1200	350	50	2" NPT
PH-400	60 x 32 x 85	265	1285	400	56	2" NPT
PH-500	64 x 34 x 85	340	1500	500	70	2" NPT
PH-650	68 x 36 x 100	410	2170	650	91	2" NPT
PH-750	76 x 38 x 100	460	2400	750	108	2 1/2" FLG
PH-1000	80 x 40 x 92	725	2700	1000	140	2 1/2" FLG
PH-1200	86 x 44 x 108	850	3200	1250	175	3" FLG
PH-1500	92 x 48 x 92	1020	3750	1500	210	3" FLG
PH-1800	102 x 50 x 109	1150	4400	1800	252	4" FLG
PH-2100	108 x 54 x 99	1375	5600	2100	294	4" FLG
PH-2600	108 x 54 x 111	1650	6800	2600	364	4" FLG
PH-3100	114 x 60 x 138	1950	7600	3100	434	6" FLG



Operating Specifications

Operating Pressure: 100 PSIG
 Operating Temp: 100° F
 Maximum Inlet Temp: 120° F
 Design Pressure: 150 PSIG at 450° F (Vessels)
 Outlet Dew Point: -40° F
 Power Supply: 115V – 1PH – 60HZ
 Electricals: NEMA 4
 NEMA Cycle: 10 Minutes
 Desiccant: Activated Alumina

Pneumatech reserves the right to change or revise specifications and product design in connection with any features of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

Distributed by:

PNEUMATECH^{INC.}

& ConservAIR[®] Technologies Co. LLP

4909 70th Avenue • Kenosha, Wisconsin U.S.A. 53144
 (262) 658-4300 Fax: (262) 658-1945 • www.pneumatech.com



Use of this Motor Challenge logo does not imply DOE endorsement.