

PNEUMATECH®

MANUFACTURED

*with high-quality components
and innovative techniques*

DESIGNED

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



Featuring



SUPPORTED

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

PH SERIES HEATLESS REGENERATIVE AIR/GAS DRYERS

WORLD LEADERS IN COMPRESSED AIR SYSTEM MANAGEMENT

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. The active bed support helps diffuse the purge air across the desiccant bed, thus improving the regeneration process.

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

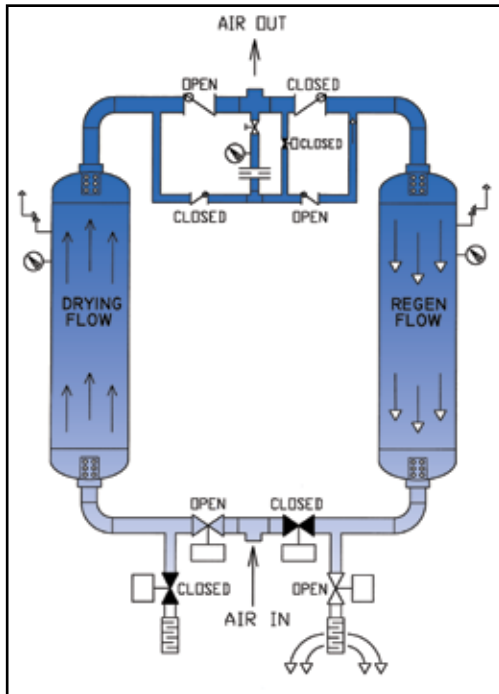
- Towers meet ASME and CRN requirements
- Extra tower corrosion allowance
- Integrally mounted floor stand to minimize the floor space requirements. Pre-piped and wired in a compact package for easy installation
- Purge flow indicator with adjustment valve (PH-300 and larger)
- Purge muffler to reduce 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	RATED CAP. SCFM	PURGE FLOW	DESICCANT LBS/TOWER	CONN IN & OUT	APPROX. SHIPPING WEIGHT (LBS)	DIMENSIONS L" x W" x H"
PH-25	25	3.5	16	1/2" NPT	380	34 x 16 x 63
PH-35	35	4.9	23	3/4" NPT	390	41 x 20 x 66
PH-50	50	7	33	3/4" NPT	450	41 x 20 x 63
PH-75	75	10.5	50	1" NPT	500	41 x 22 x 60
PH-100	100	14	65	1" NPT	550	41 x 22 x 74
PH-150	150	21	100	1 1/2" NPT	600	42 x 24 x 76
PH-200	200	28	130	1 1/2" NPT	775	43 x 26 x 84
PH-250	250	35	165	1 1/2" NPT	800	43 x 26 x 84
PH-300	300	42	195	2" NPT	1050	56 x 28 x 77
PH-350	350	50	230	2" NPT	1200	56 x 29 x 89
PH-400	400	56	265	2" NPT	1285	58 x 32 x 81
PH-500	500	70	340	2" NPT	1500	64 x 34 x 81
PH-650	650	91	410	2" NPT	2170	68 x 36 x 95
PH-750	750	108	460	2 1/2" FLG	2400	76 x 38 x 100
PH-1000	1000	140	725	2 1/2" FLG	2700	80 x 40 x 92
PH-1250	1250	175	850	3" FLG	3200	86 x 44 x 108
PH-1500	1500	210	1020	3" FLG	3750	92 x 50 x 92
PH-1800	1800	252	1150	4" FLG	4400	102 x 52 x 109
PH-2100	2100	294	1375	4" FLG	5600	108 x 54 x 99
PH-2600	2600	364	1650	4" FLG	6800	108 x 54 x 111
PH-3100	3100	434	1950	6" FLG	7600	114 x 60 x 138



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

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Distributed by:

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