

Heatless Regenerative Dryers



Pneumatech Pride

Pneumatech has been manufacturing energy efficient Regenerative dryers for nearly 50 years. We are proud to introduce this new design heatless desiccant dryer with low pressure drop, improved controls, compact design and many other features you have come to expect from Pneumatech.

See your local Pneumatech distributor, visit our website at www.pneumatech.com or give us a call at +1-800-336-2285, we are here to help.

PH-125 to PH-4400



Shown with optional filters and PureLogic™ controller

| Standard design | | Options |
|--|-----------------|--|
| Design Pressure: | 165 psig/11 bar | 232 psig/16 bar |
| Maximum Working Pressure: | 150psig/10 bar | 210 psig/14 bar |
| Pressure Dew Point: | -40°F/-40°C | -100°F/-70°C |
| Electrical Requirement: | 115V-1ph-60 Hz | 230V-1ph-60 Hz |
| Enclosure: | NEMA 4 | NEMA 4X, 7, 9 |
| Improved Cycle Sight™ control with Remote Start/Stop | | Multi-Featured Purelogic™ Advanced Control |
| ASME & CRN vessels/ CULus electrical approval | | Filter Mounting Packages |
| Average purge is 15% of rated flow | | Dew Point Demand Control (DPD) |

| Features | Benefits |
|--|---|
| Flanged vessels, optimally designed | Longer contact time/lower bed velocity/reduced leakage |
| Removable stainless steel screens | Screens and vessels can be inspected and cleaned |
| Butterfly switching valves with SST disc | Better reliability and efficiency |
| Full flow, soft seat safety relief valves | Adherence to strict safety standards |
| Oversized mufflers with relief valves | Lower noise level during purge cycle |
| Status memory on any controller | Resume cycle where it stopped, avoiding bed saturation |
| Lifting eyes and forklift openings | Simplified installation |
| Adjustable purge | Purge optimization with varying inlet pressure |
| Remote Alarms (Free Contact) | Status information from a distance |
| Load/Unload Contact (If wired, stops unit when compressor unloads) | Improved operation to match actual demand profile |
| Large pneumatic line filter | Extended life time and better protection of control devices |



Technical data

| Model Number | SCFM Flow at -40°F PDP | | SCFM Flow at -100°F PDP*** | | Avg. Power kWh | In/Out Conn. Size (in) | Pressure Drop (psid) | Dimensions L x W x H (in) | Approx. Shipping Weight (lbs) |
|--------------|------------------------|-----------|----------------------------|-----------|----------------|------------------------|----------------------|---------------------------|-------------------------------|
| | 165 psig* | 232 psig* | 165 psig* | 232 psig* | | | | | |
| PH-125 | 125 | 150 | 100 | 120 | 0.01 | ANSI 1 | 1.74 | 29 x 40 x 71 | 630 |
| PH-200 | 200 | 240 | 160 | 192 | 0.01 | ANSI 2 | 1.74 | 31 x 40 x 72 | 700 |
| PH-250 | 250 | 300 | 200 | 240 | 0.01 | ANSI 2 | 1.74 | 31 x 41 x 73 | 750 |
| PH-325 | 325 | 390 | 260 | 312 | 0.01 | ANSI 2 | 2.32 | 34 x 41 x 75 | 950 |
| PH-400 | 400 | 480 | 320 | 384 | 0.01 | ANSI 2 | 2.90 | 34 x 43 x 75 | 1060 |
| PH-500 | 500 | 600 | 400 | 480 | 0.01 | ANSI 2 | 2.90 | 39 x 45 x 77 | 1140 |
| PH-650 | 650 | 780 | 520 | 624 | 0.01 | ANSI 2 | 3.0 | 39 x 45 x 77 | 2250 |
| PH-750 | 750 | 900 | 600 | 720 | 0.01 | ANSI 2 | 3.0 | 39 x 47 x 78 | 1440 |
| PH-850 | 850 | ** | 850 | ** | 0.01 | ANSI 3 | <3.0 | 77 x 41 x 103 | 2250 |
| PH-1050 | 1050 | ** | 1050 | ** | 0.01 | ANSI 3 | <3.0 | 77 x 41 x 103 | 2410 |
| PH-1220 | 1220 | ** | 1220 | ** | 0.01 | ANSI 3 | <3.0 | 83 x 41 x 95 | 3110 |
| PH-1700 | 1700 | ** | 1700 | ** | 0.01 | ANSI 4 | <3.0 | 97 x 48 x 99 | 4600 |
| PH-2000 | 2000 | ** | 2000 | ** | 0.01 | ANSI 4 | <3.0 | 97 x 48 x 99 | 5000 |
| PH-2600 | 2600 | ** | 2600 | ** | 0.01 | ANSI 4 | <3.0 | 97 x 48 x 121 | 5950 |
| PH-3000 | 3000 | ** | 3000 | ** | 0.01 | ANSI 6 | <3.0 | 104 x 64 x 132 | 7750 |
| PH-3400 | 3400 | ** | 3400 | ** | 0.01 | ANSI 6 | <3.0 | 105 x 64 x 132 | 8350 |
| PH-4400 | 4400 | ** | 4400 | ** | 0.01 | C/F | <3.0 | C/F | C/F |

* Reference pressure for 165 psig design is 100 psig (max 150 psig), for 232 psig design, reference pressure is 180 psig (max 210 psig). Reference temperature is 100°F inlet to dryer

** Not a standard option, please send in quote request for Pneumatech Engineered Product

*** If -100°F/-70°C option is purchased

Correction Factor Example

| Pressure | bar | 5 | 6 | 6 | 7 | 8 | 10 |
|---------------------|------|------|------|-----|------|------|------|
| Des Press: 165 psig | psig | 73 | 87 | 100 | 116 | 131 | 145 |
| | F1 | 0.75 | 0.88 | 1 | 1.13 | 1.25 | 1.39 |

Another table applies for 232 psig (16 bar) design, consult factory.

| Inlet temperature | C | 20 | 25 | 30 | 38 | 40 | 45 | 50 |
|-------------------|----|----|----|----|-----|------|------|------|
| | F | 68 | 77 | 86 | 100 | 104 | 113 | 122 |
| -40°F (AA) | F2 | 1 | 1 | 1 | 1 | 0.84 | 0.71 | 0.55 |

| Dew Point | C | -40 | -70 |
|-----------|----|-----|------|
| | F | -40 | -100 |
| | F3 | 1 | 0.8 |

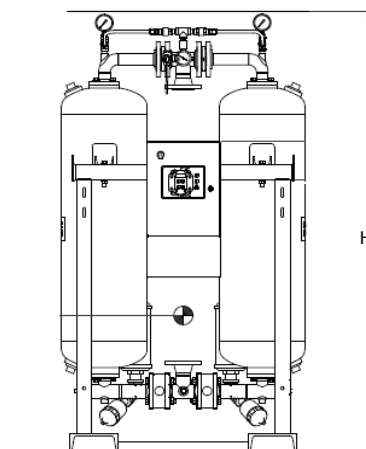
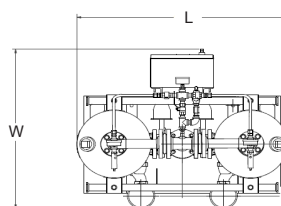
Max inlet flow for below conditions of PH-500:

130 psig inlet pressure,

104°F inlet temperature,

-40°F point target

Nominal flow*F1*F2*F3=500*1.25*0.84*1= 525 cfm



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