

Heatless Regenerative Dryers

Pneumatech Pride

Pneumatech has been manufacturing energy efficient regenerative dryers for 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.

The PH 230-635 HE (high efficiency) is an innovative and energy efficient product at a competitive value. This high efficiency version offers you a wide range of features and options.

PH-230 HE to PH-635 HE



| Design standards | PH 230-635 HE |
|------------------|-----------------------------------------------------|
| Dew point | -40 °F / -40 °C |
| Pressure Range | 160 psig design standard / 232 psig design optional |
| Voltages | 115-230 V—1ph—60 Hz |
| Controller | Purelogic™ controller |
| Technology | Heatless desiccant |
| Usage | Continuous |
| Transportability | Forklift slots |
| Applications | Food & beverage, oil & gas, general industry |

| Important features & benefits |
|--------------------------------------------------------------------------|
| Flanged larger diameter robust welded vessel |
| Screens and vessels can be inspected and cleaned |
| Resume cycle where it stopped, avoiding bed saturation |
| Purge optimization with varying inlet pressure |
| Advanced Purelogic™ controller with full communication possibilities |
| Lifting eyes and forklift slots for easy installation |
| Dew point dependent tower switching with pressure dewpoint (PDP) control |
| Load/unload contact (if wired, stops unit when compressor unloads) |
| Large pneumatic line filter as standard |

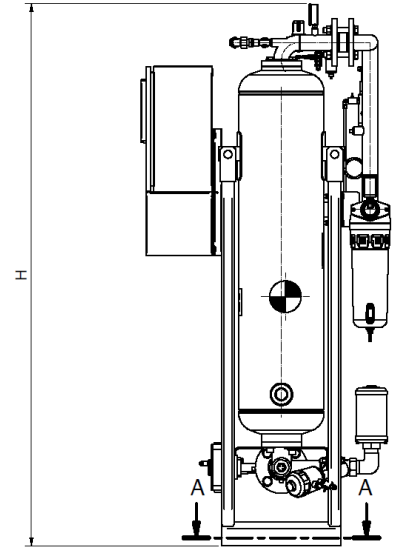
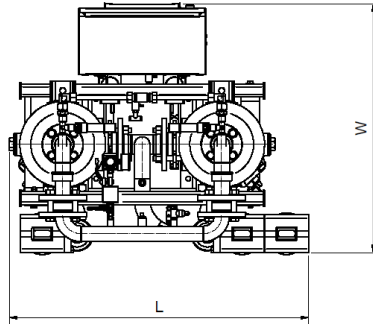
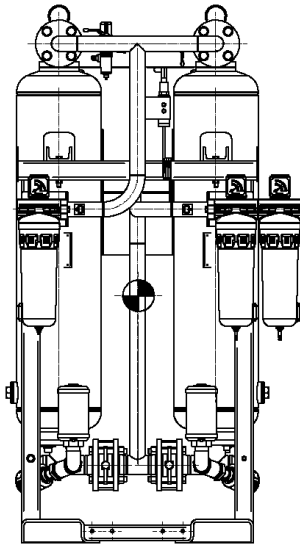
| Options | |
|---------------------------------------------|-------------------------------------|
| Dew point demand package (DPD) | <input type="checkbox"/> |
| Optocoupler 4-20 mA Remote Dew point output | <input type="checkbox"/> |
| NEMA | <input checked="" type="checkbox"/> |
| NEMA 4X | <input type="checkbox"/> |
| Pressure drop alarm (filters) | <input type="checkbox"/> |
| Reversed in and outlet pipe | <input type="checkbox"/> |
| Sonic nozzle | <input type="checkbox"/> |
| Filter bypass Kit | <input type="checkbox"/> |
| 3 Filters (2 inlet & 1 outlet) | <input checked="" type="checkbox"/> |

- Standard
 Optional



| Model Number | SCFM Flow at -40°F PDP | | SCFM Flow at -100°F PDP | | In/Out Conn. Size (in) | Pressure Drop** (psid) | Dimensions L x W x H (in) | Approx. Shipping Weight (lb) |
|--------------|------------------------|-----------|-------------------------|-----------|------------------------|------------------------|---------------------------|------------------------------|
| | 160 psig* | 232 psig* | 160 psig* | 232 psig* | | | | |
| PH-230 HE | 227 | 375 | 182 | 300 | NPT 1.5 | 0.12 | 37 x 30 x 69 | 750 |
| PH-320 HE | 318 | 525 | 254 | 420 | NPT 1.5 | 0.16 | 43 x 35 x 69 | 915 |
| PH-390 HE | 392 | 647 | 314 | 517 | NPT 1.5 | 0.20 | 43 x 35 x 71 | 981 |
| PH-530 HE | 530 | 875 | 424 | 700 | NPT 2 | 0.14 | 44 x 40 x 74 | 1323 |
| PH-635 HE | 636 | 1049 | 509 | 840 | NPT 2 | 0.19 | 46 x 42 x 75 | 1433 |

* Reference pressure for 160 psig design pressure is 100 psig (max working pressure 160 psig), reference temperature is 100 °F inlet to dryer.
Reference pressure for 232 psig design pressure is 180 psig (max working pressure 210 psig), reference temperature is 100 °F inlet to dryer.
** At 100 psig operating pressure and -40 °F PDP.



Correction Factor Example

| | | | | | | | |
|------------------------|------|------|------|-----|------|------|------|
| Pressure | psig | 73 | 87 | 100 | 116 | 131 | 145 |
| Des Press: 165 psig | bar | 5 | 6 | 7 | 8 | 9 | 10 |
| | F1 | 0.75 | 0.88 | 1 | 1.13 | 1.25 | 1.39 |

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

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

Max inlet flow for below conditions of PH-530 HE:

130 psig inlet pressure,

104 °F inlet temperature,

-40 °F point target

Nominal flow*F1*F2*F3 = 530*1.25*0.84*1 = 556 cfm

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