

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

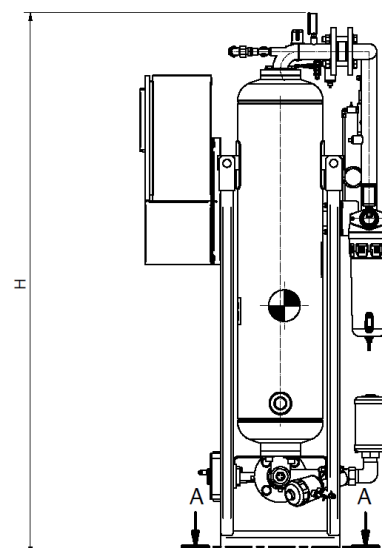
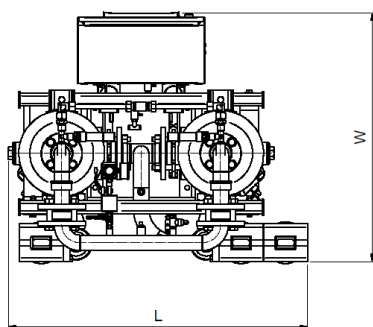
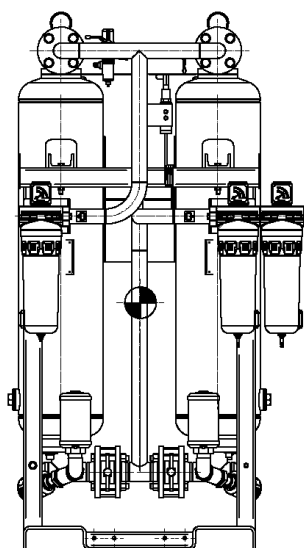
Options	
Dew point demand package (DPD)	<input type="checkbox"/>
Optocoupler 4-20 mA Remote Dew point output	<input type="checkbox"/>
NEMA	<input checked="" type="checkbox"/>
NEMA 4X	<input type="checkbox"/>
Pressure drop alarm (filters)	<input type="checkbox"/>
Reversed in and outlet pipe	<input type="checkbox"/>
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

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.

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

PH-850 to PH-4400



Standard design		Options
Design Pressure:	165 psig/11 bar	232 psig/16 bar
Maximum Working Pressure:	150 psig/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



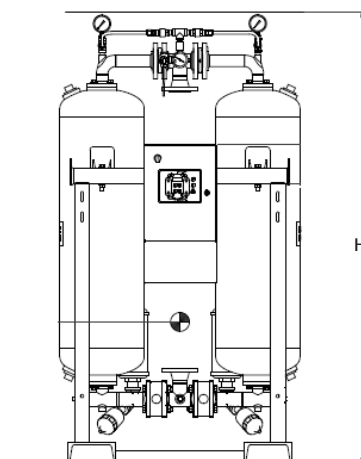
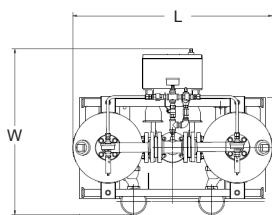
Technical data

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 (lb)
	165 psig*	232 psig*	165 psig*	232 psig*					
PH-850	850	**	680	**	0.01	ANSI 3	<3.0	47 x 76 x 106	2300
PH-1050	1050	**	840	**	0.01	ANSI 3	<3.0	47 x 76 x 106	2525
PH-1220	1220	**	976	**	0.01	ANSI 3	<3.0	47 x 82 x 98	3150
PH-1500	1500	**	1200	**	0.01	ANSI 4	<3.0	54 x 97 x 106	4450
PH-1700	1700	**	1360	**	0.01	ANSI 4	<3.0	54 x 97 x 106	4675
PH-2000	2000	**	1600	**	0.01	ANSI 4	<3.0	54 x 97 x 106	5100
PH-2600	2600	**	2080	**	0.01	ANSI 4	<3.0	67 x 90 x 131	6100
PH-3000	3000	**	2400	**	0.01	ANSI 6	<3.0	67 x 90 x 131	7500
PH-3400	3400	**	2720	**	0.01	ANSI 6	<3.0	67 x 90 x 131	7900
PH-4400	4400	**	3520	**	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	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-850:

130 psig inlet pressure,

104 °F inlet temperature,

-40 °F point target

Nominal flow*F1*F2*F3 = 850*1.25*0.84*1 = 893 cfm

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