

# Blower Purge Desiccant Dryers

## Pneumatech Pride

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



## PB-210 HE to PB-635 HE PB-850 to PB-4400

Design standards	PB 210-635 HE	PB 850-4400
Dew point	-40 °F/-40 °C or -100 °F/-70 °C	-40 °F/-40 °C
Pressure Range	65-210 psi/4.5-14.5 bar	65-150 psi/4.5-10 bar
Voltages	460 V—3 ph—60 Hz	460 V—3 ph—60 Hz
Controller	Purelogic™ controller	Purelogic™ controller
Technology	Blower purge	Blower purge
Usage	Continuous	Continuous
Transportability	Forklift slots	Forklift slots
Applications	Food & beverage, electronics, oil & gas, power generation	Food & beverage, electronics, oil & gas, power generation

Important features & benefits
Advanced Purelogic™ controller with full communication possibilities
Dew point dependent tower switching with no loss in energy during saturation process (optional DPD Package)
Lifting eyes and forklift slots for easy installation
Remote alarm for status information from a distance
Two layers of silica gel with water resistant silica on the bottom
Low watt density heater which results in energy savings
Low kW centrifugal heater for reduced power consumption
Removable stainless steel screens that can be easily removed
Butterfly switching valves with stainless steel disc for better efficiency
Oversized silencers with relief valves for lower noise level
Pressure relief safety valves to comply with strict safety standards

Options	PB 210-635 HE	PB 850-4400
Dew point demand package (DPD)	<input type="checkbox"/>	<input type="checkbox"/>
Optocoupler 4-20 mA Remote Dew point output	<input type="checkbox"/>	<input type="checkbox"/>
NEMA 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NEMA 4X	<input type="checkbox"/>	<input type="checkbox"/>
Pressure drop alarm (filters)	<input type="checkbox"/>	<input type="checkbox"/>
Reversed in and outlet pipe	<input type="checkbox"/>	<input type="checkbox"/>
Sonic nozzle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Blower filter kit	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Insulated vessels (standard on -100 °F/-70 °C)	<input type="checkbox"/>	<input type="checkbox"/>
Pre- and after-filters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PDP -100 °F/-70 °C	<input checked="" type="checkbox"/>	<input type="checkbox"/>

☒ Standard  
☐ Optional  
☒ Variant



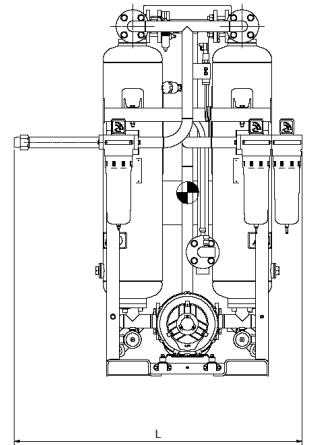
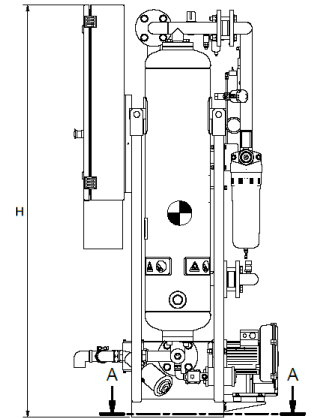
Model Number	SCFM Flow at -40°F PDP	SCFM Flow at -100°F PDP	In/Out Conn. Size (in)	Pressure Drop** (psid)	Heater & Blower kW**	Operating kW	Dimensions L x W x H (in)	Approx. Shipping Weight (lb)
	232 psig*	232 psig*						
PB-210 HE	212	170	NPT 1.5	2.9	5.24	3.0	52 x 33 x 67	805
PB-320 HE	318	254	NPT 1.5	2.9	5.24	3.0	55 x 38 x 67	1027
PB-390 HE	392	314	NPT 1.5	2.9	7.16	5.0	55 x 38 x 67	1113
PB-530 HE	530	424	NPT 2	2.9	9.44	5.5	58 x 39 x 71	1413
PB-635 HE	636	509	NPT 2	2.9	9.44	5.5	61 x 43 x 72	1642

Model Number	SCFM Flow at -40°F PDP	SCFM Flow at -100°F PDP	In/Out Conn. Size (in)	Pressure Drop** (psid)	Heater & Blower kW**	Operating kW	Dimensions L x W x H (in)	Approx. Shipping Weight (lb)
	165 psig*	165 psig*						
PB-850	850	680	ANSI 3	2.32	12.95	7.2	77 x 50 x 106	2700
PB-1050	1050	840	ANSI 3	2.32	14.05	8.9	77 x 50 x 106	2925
PB-1220	1220	976	ANSI 3	2.32	20.55	10.6	83 x 50 x 98	3625
PB-1700	1700	1360	ANSI 4	2.32	31.60	16.4	97 x 57 x 107	5325
PB-2000	2000	1600	ANSI 4	2.32	32.50	16.4	97 x 57 x 107	5800
PB-2600	2600	2080	ANSI 4	2.32	42.30	24.3	97 x 57 x 128	6775
PB-3000	3000	2400	ANSI 6	1.6	51.50	33.0	106 x 99 x 117	9025
PB-3400	3400	2720	ANSI 6	1.6	51.50	33.0	106 x 99 x 117	9500
PB-4400	4400	3520	C/F	<3.0	C/F	C/F	C/F	C/F

\* Reference pressure for 165 psig design pressure is 100 psig (max 150 psig) and reference temperature is 100 °F inlet to dryer.

Reference pressure for 232 psig design pressure is 180 psig (max 210 psig) and 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	160	174	189	203
	barg	5	6	7	8	9	10	11	12	13	14
Des Press: 232 psig	F1	0.75	0.88	1	1.13	1.25	1.38	1.50	1.63	1.75	1.88

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

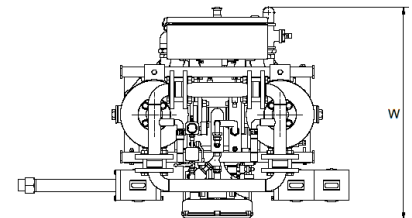
Max inlet flow for below conditions of PB-530 HE:

130 psig inlet pressure,

104 °F inlet temperature,

-40 °F point target

Nominal flow  $F1 \cdot F2 \cdot F3 = 530 \cdot 1.25 \cdot 0.84 \cdot 1 = 556 \text{ cfm}$



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