

Blower Purge Regenerative Dryers

pneumatech
Pure air . Pure gas

Pneumatech Pride

Pneumatech has been manufacturing energy efficient Regenerative dryers for nearly 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.

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.

**PB-250
to PB-4400**



Standard design		Options
Design Pressure PB-250 to 750:	232 psig/16 bar	N/A
Design Pressure PB-850 to 4400:	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:	460V-3ph-60 Hz	575V-3ph-60 Hz
Enclosure:	NEMA 4	NEMA 4X, 7, 9
Purelogic™ Advanced Control with Remote Start/Stop		4-20mA Remote Dew Point Output
ASME & CRN vessels/cULus Listed		Filter Mounting Packages
Pressure Drop <3.0 psid on all models		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 Advanced Control	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
Low watt density heater	Lower thermal shock to desiccant bed
Low kW centrifugal blower	Reduced power consumption



Model number	SCFM Flow at -40°F PDP			SCFM Flow at -100°F PDP			Heater and blower (kW)	Avg. Power (kWh ^{***})	I/O Conn size (In)	Pressure drop (psid)	Dimensions L x W x H (In)	Approx. Shipping weight (lbs)
	165 psig*	100 psig @ 232 design*	180 psig@232 design*	165 psig*	100 psig @ 232 design*	180 psig@232 design*						
PB-250	-	250	425	-	200	340	5.25	3.0	ANSI 2	2.9	32 x 45 x 73	900
PB-325	-	325	552	-	260	442	5.25	3.2	ANSI 2	2.9	36 x 45 x 75	1100
PB-400	-	400	679	-	320	544	8.25	5.0	ANSI 2	2.9	37 x 45 x 75	1250
PB-500	-	500	849	-	400	679	9.45	5.5	ANSI 2	2.9	40 x 45 x 76	1350
PB-650	-	650	1104	-	520	883	9.45	5.6	ANSI 2	2.9	40 x 45 x 76	1475
PB-750	-	750	1274	-	600	1019	9.45	5.8	ANSI 2	2.9	42 x 47 x 77	1650
PB-850	850	**	**	680	**	**	12.95	7.2	ANSI 3	2.32	50 x 77 x 106	2700
PB-1050	1050	**	**	840	**	**	14.05	8.9	ANSI 3	2.32	50 x 77 x 106	2925
PB-1220	1220	**	**	976	**	**	20.55	10.6	ANSI 3	2.32	50 x 83 x 98	3625
PB-1700	1700	**	**	1360	**	**	31.60	16.4	ANSI 4	2.32	57 x 97 x 107	5325
PB-2000	2000	**	**	1600	**	**	32.50	16.4	ANSI 4	2.32	57 x 97 x 107	5800
PB-2600	2600	**	**	2080	**	**	42.30	24.3	ANSI 4	2.32	57 x 97 x 128	6775
PB-3000	3000	**	**	2400	**	**	51.50	33.0	ANSI 6	1.6	99 x 106 x 117	9025
PB-3400	3400	**	**	2720	**	**	51.50	33.0	ANSI 6	1.6	99 x 106 x 117	9500
PB-4400	4400	**	**	3520	**	**	C/F	C/F	C/F	<3.0	C/F	C/F

*Reference pressure for 165 psig design pressure is 100 psig (max 150 psig). For 232 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

*** At 100 psig operating and -40°F PDP

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

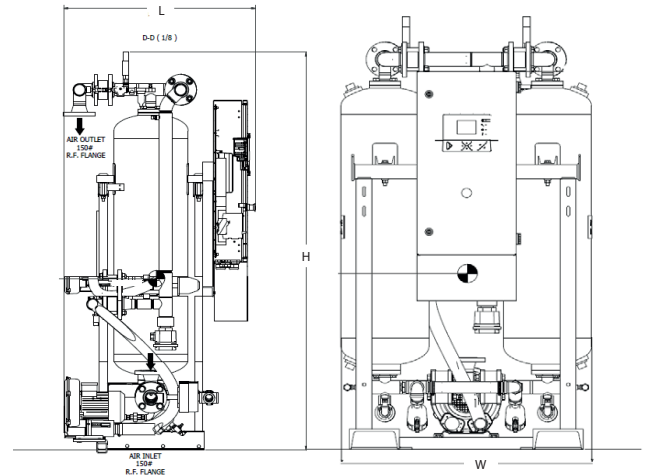
Inlet temperature	C	20	25	30	38	40	45	50
	F	68	77	86	100	104	113	122
-40°F (AA)	F2	1	1	1	1	0.84	0.71	0.55

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

Max inlet flow for below conditions of PB-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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