

Heatless Desiccant Dryer



Pure air . Pure gas

Pneumatech Pride

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

PH 2-45 HE (High Efficiency)

Delivered with a pre-filter TF PF C & dust filtration integrated in the desiccant cartridge;

Desiccant type - Molecular Sieves;

Pressure Dew Point - 100°F can be achieved by flow de-rating;

Working pressure up to 232 PSIG as standard.



PH 2-45 HE

Design standards	PH 2-45 HE
Dew point	-40°F
Working Pressure range	58 - 232 psig
Voltages	115 V
Frequency	60 Hz
Technology	Heatless desiccant
Usage	Continuous
Handling	Easy to maneuver and install
Applications	Food & beverage, electronics, general industry

Important features & benefits
Low pressure drop across the whole range
Inlet and outlet can be reversed and dryer can be installed vertically or horizontally
Integrated silencers ensure extremely low noise
Full electronic controller IP65 protected against water & dust
Purge Saver function included as standard (can be wired to pause drying cycle when compressor stops or unloads)
Adjustable purge to tune the purge air consumption according to the actual pressure (optional)

Options	PH 2-45 HE
Optimized purge nozzle	•
Wall mounting (up to PH HE 150)	•
DPD kit (hygrometer)	•
PDP -70°C/-94°F	✓ (by de-rating)
IP65	✓

- ✓ Standard
- Optional
- Not available



Technical data

MODEL	SCFM FLOW at -40°C/ -40°F PDP	SCFM FLOW at -70°C/ -100°F PDP	INLET CONN SIZE (in)**	OUTLET CONN SIZE (in)**	L x W x H (in)	APPROX. SHIPPING WT (lbs)	RECOMMENDED INLET FILTER TYPE C
PH-HE 2	2.1	1.5	1/4	1/4	4 x 8 x 21	15	3
PH-HE 3	3.2	2.2	1/4	1/4	4 x 8 x 23	18	3
PH-HE 4	4.2	2.9	1/4	1/4	4 x 8 x 28	20	3
PH-HE 5	5.3	3.7	1/4	1/4	4 x 8 x 33	22	3
PH-HE 6	6.4	4.5	1/4	1/4	4 x 8 x 34	24	3
PH-HE 11	10.6	7.4	3/8	1/2	25 x 13 x 6	42	TF PF 1
PH-HE 15	14.8	10.4	3/8	1/2	29 x 13 x 6	49	TF PF 1
PH-HE 20	21.2	14.8	3/8	1/2	34 x 13 x 6	55	TF PF 1
PH-HE 25	25.4	17.8	1/2	1/2	40 x 13 x 6	64	TF PF 2
PH-HE 35	36.0	25.2	1/2	1/2	50 x 13 x 6	77	TF PF 2
PH-HE 45	46.6	32.6	1/2	1/2	59 x 13 x 6	97	TF PF 2

* Reference pressure is 100 psig (design pressure is 232 psig, and maximum working pressure 232 psig)

** Inlet connection refers to inlet filter. Outlet refers to the dryer outlet.

***For conditions differing from the reference conditions, use the below correction factor table.

Correction factors

(Kd) Pressure dew point (°C/°F)	-40/-40	-70/-100
PH 2-45 HE	1	0.7

(Kt) Air inlet temperature (°C/°F)	20/68	25/77	30/86	35/95	40/104	45/113	50/122
PH 2-45 HE	1.07	1.06	1.04	1	0.88	0.67	0.55

(Kp) Air inlet pressure (bar/psi)	4/58	5/73	6/87	7/102	8/116	9/131	10/145	11/160	12/174	13/189	14/203	15/218	16/232
PH 2-45 HE	0.62	0.75	0.87	1	1.12	1.25	1.37	1.50	1.62	1.75	1.87	2	2.12

Example:

What is the capacity of a PH 15 HE, working at 8 bar(g)/116 psi(g), with an inlet temperature of 40°C/104°F and with a required pressure dew point of -70°C/-100°F?

Find each correction factor:

Kd=0.7	Actual capacity =	Normal capacity x Kd x Kp x Kt
Kt=0.88		14.8 x 0.7 x 0.88 x 1.12
Kp=1.12		10.2 cfm



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