

Desiccant Dryers



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, improved controls, compact design and many other features you have come to expect from Pneumatech.

The PH 2-635 HE (high efficiency) is an innovative and energy efficient product at a competitive value. This high efficiency version offers you a wide range of featured and options.



PH 2-635 HE

Design standards	PH 2-45 HE	PH 55-310 HE	PH 230-635 HE
Dew point	-40°C/-40°F	-40°C/-40°F	-40°C/-40°F
Pressure range	4-16 bar/60-232 psi	4-16 bar/60-232 psi	4-16 bar/60-232 psi
Voltages	115-230 V	115-230 V	115-230 V
Frequency	50-60 Hz	50-60 Hz	50-60 Hz
Controller	Basic	Advanced	Purelogic™ controller
Technology	Heatless desiccant	Heatless desiccant	Heatless desiccant
Usage	Continuous	Continuous	Continuous
Transportability	Easy to transport	Easy to transport	Forklift slots
Applications	Food & beverage, electronics, general industry	Food & beverage, electronics, general industry	Food & beverage, oil & gas, general industry

Important features & benefits
Flanged larger diameter robust vessel (welded vessel - only from PH 230-635 HE)
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
Adjustable purge with low noise level
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	PH 2-45 HE	PH 55-310 HE	PH 230-635 HE
Optimized purge nozzle	•	–	•
Wall mounting	•	–	–
PDP sensor kit	•	•	–
PDP -70°C/-100°F	(only flow)	•	•
Wall mounting	–	•	–
IP65	–	•	–
Reversed in- and outlet pipe	–	–	•
NEMA4	–	–	•
Pressure drop alarm (filters)	–	–	•
Safety valves (standard on ASME)	–	–	•
Pneumatic control	–	–	•
Sonic nozzle	–	–	•

- ✓ Standard
- Optional
- Not available



Technical data

50Hz

Type	Flow			Pressure drop		Inlet/outlet connection	Integrated filter			Dimensions (mm)			Dimensions (in)			Weight	
	l/min	m³/h	cfm	bar	psi	Gas	1 µm 0.1 ppm	0.01 µm 0.01 ppm	1 µm	L	W	H	L	W	H	kg	lb
PH 2 HE	60	4	2	0.02	2.90	R 1/4	N/A	Std	Std	106	172	540	7	4	21	7	15
PH 3 HE	90	5	3	0.02	2.90	R 1/4	N/A	Std	Std	106	172	590	7	4	23	8	18
PH 4 HE	120	8	4	0.02	2.90	R 1/4	N/A	Std	Std	106	172	720	7	4	28	9	20
PH 5 HE	150	9	5	0.02	2.90	R 1/4	N/A	Std	Std	106	172	830	7	4	32	10	22
PH 6 HE	180	11	6	0.02	2.90	R 1/4	N/A	Std	Std	106	172	855	7	4	33	11	24
PH 11 HE	300	18	11	0.02	2.90	R 1/2	N/A	Std	Std	149	295	640	11	6	25	19	42
PH 15 HE	420	25	15	0.02	2.90	R 1/2	N/A	Std	Std	149	295	730	11	6	28	22	48
PH 20 HE	600	36	21	0.02	2.90	R 1/2	N/A	Std	Std	149	295	875	11	6	34	25	55
PH 25 HE	720	43	25	0.02	2.90	R 1/2	N/A	Std	Std	149	295	1015	11	6	40	29	64
PH 35 HE	1020	61	36	0.02	2.90	R 1/2	N/A	Std	Std	149	295	1270	11	6	50	35	77
PH 45 HE	1320	79	47	0.35	5.08	R 1/2	N/A	Std	Std	149	295	1505	11	6	59	44	97
PH 55 HE	1500	90	53	0.06	0.87	R 1/2	Std	Std	Std	550	201	1233	21.7	7.9	48.5	50	110
PH 65 HE	1800	108	64	0.09	1.23	R 1/2	Std	Std	Std	550	201	1233	21.7	7.9	48.5	50	110
PH 75 HE	2100	126	74	0.10	1.38	R 1/2	Std	Std	Std	550	201	1478	21.7	7.9	58.2	60	132
PH 105 HE	3000	180	106	0.32	4.64	R 1	Std	Std	Std	550	201	1846	21.7	7.9	72.7	80	176
PH 130 HE	3600	216	127	0.12	1.74	R 1	Std	Std	Std	550	364	1233	21.7	14.3	48.5	100	220
PH 150 HE	4200	252	148	0.16	2.32	R 1	Std	Std	Std	550	364	1479	21.7	14.3	58.2	120	264
PH 170 HE	4800	288	170	0.33	4.79	R 1 1/2	Std	Std	Std	550	364	1846	21.7	14.3	72.7	160	353
PH 210 HE	6000	360	212	0.35	5.08	R 1 1/2	Std	Std	Std	550	364	1846	21.7	14.3	72.7	160	353
PH 310 HE	8700	522	307	0.43	6.24	R 1 1/2	Std	Std	Std	550	526	1846	21.7	20.7	72.7	240	529
PH 230 HE	6600	396	233	0.12	1.74	R 1 1/2	Std	Std	Std	950	728	1695	37.4	28.7	66.7	340	749
PH 320 HE	9000	540	318	0.16	2.32	R 1 1/2	Std	Std	Std	1089	848	1731	42.9	33.4	68.1	415	915
PH 390 HE	11100	666	392	0.20	2.90	R 1 1/2	Std	Std	Std	1089	848	1731	42.9	33.4	68.1	445	981
PH 530 HE	15000	900	530	0.14	2.03	R 2	Std	Std	Std	1106	960	1816	43.5	37.8	71.5	600	1322
PH 635 HE	18000	1080	636	0.19	2.76	R 2	Std	Std	Std	1173	1116	1854	46.2	43.9	73	650	1433

Reference conditions: Operating pressure: see technical data table / Operating temperature: 35°C/95°F / Relative humidity: 100%.
For conditions differing from the reference conditions, use the below correction factor table.

Correction factors

(Kd) Pressure dew point (°C)	0	-10	-20	-30	-40	-50	-60	-70
PH 2-45 HE					1			0.7
PH 55-310 HE					1			0.7
PH 230-635 HE	1	1	1	1	1	0.9	0.75	0.8

(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
PH 55-310 HE	1	1	1	1	0.84	0.67	0.55
PH 230-635 HE	1	1	1	1	0.84	0.71	0.55

(Kp) Air inlet pressure (bar)	4	5	6	7	8	9	10	11	12	13	14	14.5	15	16	11*	12.5*	13*	14*	15*	16*
PH 2-45 HE	0.62	0.75	0.87	1	1.12	1.25	1.37	1.5	1.62	1.75	1.87		2	1.12						
PH 55-310 HE	0.62	0.75	0.87	1	1.12	1.25	1.37	1.5	1.62	1.75	1.87	1.93								
PH 230-635 HE	0.47	0.68	0.84	1.14	1.1	1.2	1.3	1.38							0.89	1	1.04	1.11	1.19	1.24



Note: For dew point of -70°C/-100°F molecular sieves are required as desiccant material, this is an option for PH 230-635 HE. *HP version

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