

Heatless adsorption dryers

PH 45-690 HE with structured desiccant

NEW



The Pneumatech PH HE adsorption dryer has always earned its High-Efficiency label. Its new models with structured desiccant take these energy savings to a new level. In fact, thanks to their groundbreaking solid desiccant, the newest additions to the PH HE range offer the lowest total cost of ownership on the market. They also set new standards in reliability, low maintenance requirements and versatility for truly superior dryer performance.

Features and benefits:

- Structured desiccant offers highly efficient air flow and regeneration
- Stable low pressure dew point
- 40% longer desiccant lifetime
- Easy desiccant maintenance
- No desiccant dust that can cause dryer failures and compromise production
- Pneumatic valves add robustness in demanding environments
- Vertical or horizontal installation
- Purge nozzle optimization
- PDP control (optional for DC1 controller)
- Wall-mounting kit (optional for Simplex models)

General Specifications

- Heatless adsorption dryers: extruded profile design
- Dew points achievable: -20°C/-5°F, -40°C/-40°F
- Pressure range: 4-14 barg/58-203 psig
- Ambient temperature range: 2-45°C/36-113°F
- Inlet temperature range : 2-60°C/ 36-140°F
- Power supply: 230VAC 50/60Hz & 115VAC 50/60Hz

A new type of heatless adsorption dryer

Solid desiccant:

- Much more efficient air flow reduces energy costs
- Evenly distributed air flow extends desiccant lifetime
- 40% longer lifetime
- No desiccant dust to filter out
- Fast and easy maintenance

Pneumatic valves: enhance reliability in tough conditions

PureLogic™ Touch controller:

- Easy to use
- Optimizes performance and efficiency of the dryer
- Connectivity to DCS, SCADA and PLC systems available



Technical specifications for PH 45 HE up to PH 690 HE (Version PDP -40°)

Specifications	Unit	PH 45 HE	PH 65 HE	PH 90 HE	PH 110 HE	PH 135 HE	PH 180 HE	PH 220 HE	PH 265 HE	PH 355 HE	PH 400 HE	PH 535 HE	PH 690 HE
Nominal volume flow at dryer inlet	l/s	20	30	40	55	65	85	105	125	170	190	250	335
	m3/h	72	108	144	198	234	306	378	450	612	684	900	1206
Connections Inlet / Outlet	G	1/2"	1/2"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
	NPT	1/2"	1/2"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
Pressure drop at max. flow	barg	0.08	0.08	0.08	0.11	0.16	0.245	0.12	0.12	0.215	0.155	0.24	0.3
	psig	1.16	1.16	1.16	1.6	2.32	3.55	1.74	1.74	3.12	2.25	3.48	4.35
Height	mm	1205	1205	1205	1495	1495	1835	1495	1495	1835	1495	1835	1835
	inch	47.44	47.44	47.44	58.86	58.86	72.24	58.86	58.86	72.24	58.86	72.24	72.24
Width	mm	864	864	904	904	904	934	934	964	964	964	1042	1042
	inch	34.02	34.02	35.59	35.59	35.59	36.77	36.77	37.95	37.95	37.95	41.02	41.02
Length	mm	394	394	394	394	394	394	564	564	564	734	734	929
	inch	15.51	15.51	15.51	15.51	15.51	15.51	22.20	22.20	22.20	28.90	28.90	36.57
Mass	KG	95	100	110	128	140	165	215	234	276	331	389	500
	Lb	209	220	242	282	309	363	473	515	607	728	856	1100
Included pre filter size	Fine filter	PMH 85 G	PMH 119 G	PMH 178 G	PMH 178 G	PMH 297 G	PMH 297 G	PMH 545 G	PMH 545 G	PMH 545 G	PMH 545 G	PMH 1189 G	PMH 1189 G
	Super fine filter	PMH 85 C	PMH 119 C	PMH 178 C	PMH 178 C	PMH 297 C	PMH 297 C	PMH 545 C	PMH 545 C	PMH 545 C	PMH 545 C	PMH 1189 C	PMH 1189 C

Technical specifications for PH 50 HE up to PH 625 HE (version PDP -20°C)

		PH 50 HE	PH 75 HE	PH 100 HE	PH 140 HE	PH 165 HE	PH 215 HE	PH 265 HE	PH 320 HE	PH 415 HE	PH 475 HE	PH 625 HE
Nominal volume flow at dryer inlet	l/s	25	35	50	65	80	105	125	150	195	225	300
	m3/h	90	126	180	234	288	378	450	540	702	810	1080
Connections Inlet / Outlet	G	1/2"	1/2"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
	NPT	1/2"	1/2"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
Pressure drop at max. flow	barg	0.08	0.08	0.125	0.17	0.245	0.33	0.12	0.18	0.28	0.2	0.33
	psig	1.16	1.16	1.81	2.46	3.55	4.78	1.74	2.61	4.06	2.9	4.78
Height	mm	1205	1205	1205	1495	1495	1835	1495	1495	1835	1495	1835
	inch	47.44	47.44	47.44	58.86	58.86	72.24	58.86	58.86	72.24	58.86	72.24
Width	mm	864	904	904	904	934	934	964	964	964	1042	1042
	inch	34.02	35.59	35.59	35.59	36.77	36.77	37.95	37.95	37.95	41.02	41.02
Length	mm	394	394	394	394	394	394	564	564	564	734	734
	inch	15.51	15.51	15.51	15.51	15.51	15.51	22.20	22.20	22.20	28.90	28.90
Mass	KG	95	100	110	128	141	165	218	234	277	331	394
	Lb	209	220	242	282	310	363	480	515	609	728	867
Included pre filter size	Fine filter	PMH 85 G	PMH 119 G	PMH 178 G	PMH 297 G	PMH 297 G	PMH 545 G	PMH 545 G	PMH 545 G	PMH 545 G	PMH 1189 G	PMH 1189 G
	Super fine filter	PMH 85 C	PMH 119 C	PMH 178 C	PMH 297 C	PMH 297 C	PMH 545 C	PMH 545 C	PMH 545 C	PMH 545 C	PMH 1189 C	PMH 1189 C

Flow is measured at Reference Conditions : 1 bara and 20°C at operating pressure of 7 barg, inlet temperature 35°C & std PDP of -40°C or -20°C at the outlet
For applications that require -70° PDP, please refer to the previous PH HE range

Options:

- PDP control
- Wall-mounting kit

