

Adsorption Dryers

Pneumatech offers four different adsorption dryer technologies. Heatless dryers (PH) have the lowest initial investment cost, while zero-purge adsorption dryers (PB ZP) the lowest lifecycle cost. Heated purge (PE) and blower purge (PB) dryers balance between both.

No matter what your preference is, Pneumatech guarantees stable, dry air at the lowest operating costs and with excellent control and monitoring capabilities for each dryer you select.

HEDMARK SERVICE AS

PH 2 - 45 HE - Extruded profile heatless adsorption dryers

Features & Benefits

- Advanced energy management for lowest operating costs
  - Compressor synchronization
  - Purge nozzle optimization (optional)
  - PDP control (optional)
- High-quality, high-efficient desiccant, selected for the right application – molecular sieves
- Spring-loaded cartridges, hence minimizing the risk of crushed desiccant
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- Designed for transportability & mountability
  - Dryer can be installed vertically or horizontally
  - Wall-mounting kit (optional)
- In & outlet can be reversed
- Low noise levels while purging
- High reliability and robust design

General Specifications

- Heatless adsorption dryers: extruded profile design
- Dew points achievable: -40°C/-40°F & -70°C/-94°F
- Pressure range: 4-16 barg/58-232 psig
- Ambient temperature range: 1-50°C/34-122°F
- Inlet temperature range: 1-60°C/34-140°F
- Power supply: 230VAC 50/60Hz

Options

Purge nozzle optimization

Wall mounting kit

PDP control

Incorporating high-quality components, PH heatless adsorption dryers provide you with clean, dry air to extend the life of your equipment and products. Heatless adsorption dryers use dry, expanded purge air to remove moisture from the desiccant material.

PH 2-45 HE adsorption dryers are capable of drying air to a PDP of -70°C/-94°F, simply by reducing the flow, thanks to the use of carefully selected molecular sieves. The desiccant is housed in a robust extruded aluminum body, which can operate until 16 barg/232 psig (fatigue load). The dryers are equipped with a mounted pre-filter and an integrated after-filter as standard, can be installed vertically and can also be wall-mounted with a specially designed wall-mounting kit (optional).

The controller ensures the lowest operational costs thanks to compressor synchronization and the optional PDP control. LED's on the controller indicate whether power supply is connected, towers are pressurized and solenoids are functioning properly. It also provides with preventive maintenance information. Alarms can also be triggered remote thanks to the available voltage-free contact.

Technical specifications for PH 2 HE up to PH 45 HE (standard version, PDP -40 ˚C)

Specification	Unit	PH 2 HE	PH 4 HE	PH 6 HE	PH 11 HE	PH 15 HE	PH 20 HE	PH 25 HE	PH 35 HE	PH 45 HE
Nominal volume flow at dryer inlet (1)	l/s	1	2	3	5	7	10	12	17	22
	m^3/hr	4	7	11	18	25	36	43	61	79
Average purge air consumption	%	18	18	18	18	18	18	18	18	18
Inlet and outlet connections	G	1/4"	1/4"	1/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	NPT	1/4"	1/4"	1/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Pressure drop at max. flow	barg	0.012	0.075	0.185	0.01	0.04	0.075	0.125	0.21	0.34
	psig	0.17	1.09	2.68	0.15	0.58	1.09	1.81	3.05	4.93
Included pre-filter size	Super fine filter	Mini 3 C HE	Mini 3 C HE	Mini 3 C HE	TF 1 C HE	TF 1 C HE	TF 1 C HE	TF 1 C HE	TF 1 C HE	TF 1 C HE
Mass	Kg	7	9	11	19	22	25	29	35	44
	Lb	15.5	19.8	24.2	41.9	48.5	55.1	63.9	77.1	97
Height	mm	540	720	855	640	725	875	1015	1270	1505
	inch	21.2	28.3	33.6	25.1	28.5	34.4	39.9	50	59.2
Width	mm	197	197	197	320	320	320	320	320	320
	inch	7.7	7.7	7.7	12.5	12.5	12.5	12.5	12.5	12.5
Length	mm	106	106	106	149	149	149	149	149	149
	inch	4.1	4.1	4.1	5.8	5.8	5.8	5.8	5.8	5.8

1. 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 at the outlet.

Flow correction factors due to air inlet pressure Kp

Operating pressure	barg	4	5	6	7	8	9	10	11	12	13	14	15	16
	psig	58	72	87	100	116	130	145	160	174	189	203	218	232
Pressure correction factor	Kp	0.62	0.75	0.87	1	1.12	1.25	1.37	1.5	1.62	1.75	1.87	2	2.12

Flow correction factors due to air inlet temperature Kt

Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	86	95	104	113	122
Temperature correction factor	Kt	1.07	1.06	1.04	1	0.88	0.67	0.55

Flow correction factors due to pressure dew point Kdp

Dew point	°C	-40	-70
	°F	-40	-94
Dew point correction factor	Kdp	1	0.7

PH 55 - 550 HE - Extruded profile heatless adsorption dryers

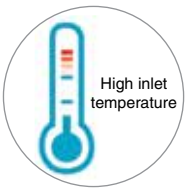
Features & Benefits

- Advanced energy management for lowest operating costs
  - Compressor synchronization
  - Purge nozzle optimization
  - PDP control (optional)
- Best-in-class performance thanks to unique valve and exhaust design (patent pending)
  - Lowest pressure drop during drying
  - Lowest purge loss by ensuring maximum purge air expansion during regeneration
- Low noise levels during purge and blow-off
- High-quality, high-efficient desiccant, selected for the right application
  - PDP -20°C/-3°F &• PDP -40°C/-40°F: activated alumina
  - PDP -70°C/-94°F: molecular sieves
- Spring-loaded desiccant, minimizing the risk of crushing
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- Designed for transportability & mountability
  - Wall-mounting kit for PH 55-190 HE (optional)
- Optimal control and monitoring thanks to the Purelogic™ controller (optional)
- Desiccant bags for easy service from the top

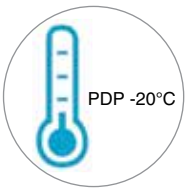
General Specifications

- Heatless adsorption dryers: extruded profile design
- Dew points achievable: -20°C/-3°F; -40°C/-40°F & -70°C/-94°F
- Pressure range: 4-14 barg/58-203 psig
- Ambient temperature range: 1-45°C/34-113°F
- Inlet temperature range: 1-50°C/34-122°F (For temperatures up to 60°C/140°F: see HIT option)
- Power supply: 230VAC 50/60Hz & 115VAC 50/60Hz

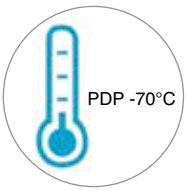
Options



High inlet temperature



PDP -20°C



PDP -70°C

Wall mounting kit

PDP control

Purelogic controller

IP65 protection

Incorporating high-quality components, PH heatless adsorption dryers provide you with clean, dry air to extend the life of your equipment and products. Heatless adsorption dryers use dry, expanded purge air to remove moisture from the desiccant material.

PH 55-550 HE adsorption dryers are available in 3 PDP variants: -20°C/-4°F , -40C°/-40°F and -70°C/-94°F, each optimized to provide the lowest purge loss. The unique manifold (patent pending) includes pilot air controlled 3/2-way valves, which switch fast and reliably. The pressure drop over the valves is reduced to a minimum. This does not only result in a low pressure drop over the dryer, but also ensures maximum purge air expansion during regeneration. The latter makes that the purge consumption of the dryers has been reduced significantly.

The desiccant is spring-loaded and housed in a robust extruded aluminum body, which can operate up to 14 barg/203 psig (fatigue load). The dryers are equipped with a mounted pre-filter and after-filter as standard and can also be wall-mounted with a specially designed wall-mounting kit (optional).

Operating costs are optimized at all times thanks to the availability of compressor synchronization and purge nozzle optimization as standard and PDP control as option. The full machine status can be checked on the display of the controller and the vessel pressure gauges on the unit.

The controller indicates whether power supply is connected, towers are pressurized, valves are functioning properly or preventive maintenance needs to be done. In case the optional PDP control is connected, the PDP value can monitored from the display. Alarms and warnings can also be triggered remote with the available voltage-free contacts.

Optionally the Purelogic™ can be used as central brain of the adsorption dryer.

Technical Specifications for PH 55 HE up to PH 550 HE (standard version, PDP -40 ˚C)

Specification	Unit	PH 55 HE	PH 75 HE	PH 95 HE	PH 120 HE	PH 140 HE	PH 190 HE	PH 230 HE	PH 275 HE	PH 350 HE	PH 420 HE	PH 550 HE
Nominal volume flow at dryer inlet (1)	l/s	25	35	45	55	65	90	110	130	165	195	260
	m³/hr	90	126	162	198	234	324	396	468	594	702	936
Regeneration air consumption average at max. flow	%	16.5	16.5	16.5	16	16	16.5	16.5	16.5	16.5	17	17
Connection inlet/ outlet	G	1/2"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
	NPT	1/2"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
Pressure drop at max. flow	barg	0.031	0.065	0.114	0.18	0.278	0.114	0.18	0.278	0.18	0.278	0.278
	psig	0.45	0.94	1.65	2.61	4.03	1.65	2.61	4.03	2.61	4.03	4.03
Included pre & after filter size	Super fine filter	TF 3 C HE	TF 4 C HE	TF 5 C HE	TF 5 C HE	TF 6 C HE	TF 6 C HE	TF 6 C HE	TF 7 C HE	TF 8 C HE	TF 8 C HE	TF 9 C HE
	Dust filter	TF 3 S HE	TF 4 S HE	TF 5 S HE	TF 5 S HE	TF 6 S HE	TF 6 S HE	TF 6 S HE	TF 7 S HE	TF 8 S HE	TF 8 S HE	TF 9 S HE
Height	mm	1205	1205	1495	1495	1835	1495	1495	1835	1495	1835	1835
	inch	47.4	47.4	58.9	58.9	72.2	58.9	58.9	72.2	58.9	72.2	72.2
Width	mm	807	827	847	847	877	907	906	907	907	907	985
	inch	31.8	32.6	33.3	33.3	34.5	35.7	35.7	35.7	35.7	35.7	38.8
Length	mm	394	394	394	394	394	564	564	564	734	734	929
	inch	15.5	15.5	15.5	15.5	15.5	22.2	22.2	22.2	28.9	28.9	36.6
Mass	KG	100	109	128	140	165	217	234	276	331	389	500
	Lb	220.5	240.3	282.2	308.6	363.8	478.4	515.9	608.5	729.7	857.6	1102.3

*1. Flow is measured at Refernce Conditions: 1 bara and 20°C at operating pressure of 7 barg,inlet temperature 35°C & std PDP of -40°C at the outlet

Flow correction factors due to air inlet pressure												
Operating pressure	barg	4	5	6	7	8	9	10	11	12	13	14
	psig	58	72	87	100	116	130	145	160	174	189	203
Pressure correction factor	Kp	0.62	0.75	0.87	1	1.12	1.25	1.37	1.5	1.62	1.75	1.87

Flow correction factors due to air inlet temperature								
Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	86	95	104	113	122
Temperature correc-tion factor	Kt	1	1	1	1	0.84	0.67	0.55

PH 700 - 2950 HE - Welded vessel heatless adsorption dryers

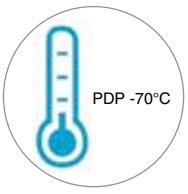
Features & Benefits

- Advanced energy management for lowest operating costs
  - PDP control
  - Compressor synchronization
  - Purge nozzle optimization (optional)
- High-quality, high-efficient desiccant, selected for the right application
  - PDP -40°C/-40°F (std): activated alumina
  - PDP -70°C/-94°F (option): molecular sieves
- Minimal risk of crushed desiccant thanks to the large vessel diameter and the sonic nozzle
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- High reliability and robust design
- Low noise levels while purging
- Designed for transportability
- Optimal control and monitoring thanks to the Purelogic™ controller

General Specifications

- Heatless adsorption dryers: welded vessel design
- Dew points achievable: -40°C/-40°F & -70°C/-94°F
- Pressure range: 4-10 barg/58-145 psig (14 barg/203 psig variant available on request)
- Ambient temperature range: 1-40°C/34-104°F
- Inlet temperature range: 1-55°C/34-131°F
- Power supply: 230VAC 50 Hz; 115VAC 60 Hz 3 ph

Options



PDP -70°C

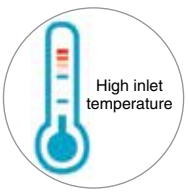
Purge nozzle optimization

2nd PDP read out

In and outlet filters

Vessel Safety valves

Wooden Packaging



High inlet temperature

Incorporating high-quality components, PH heatless adsorption dryers provide you with clean, dry air to extend the life of your equipment and products. Heatless adsorption dryers use dry, expanded purge air to remove moisture from the desiccant material.

PH 700-2950 HE adsorption dryers are capable of drying air to a PDP of -40°C/-40°F as standard and -70°C/-94°F as option for higher flows up to 5040 m³/hr / 2950 cfm. The desiccant is housed in welded vessels, which are coated and can operate up to 10 barg/145 psig (fatigue load). All dryers can be equipped with 2 coalescing pre-filters before and 1 particulate filter after the dryer (optional).

The PH 700-2950 HE range has the Purelogic™ as central brain of the adsorption dryer. The Purelogic™ optimizes operating costs; ensures maximum reliability by monitoring the most important parameters; and offers impressive control and monitoring capabilities.

Technical specifications for PH 700 HE up to PH 2950 HE (standard version, PDP -40˚C)

Specification	Unit	PH700 HE	PH850 HE	PH1165 HE	PH1800 HE	PH2350 HE	PH2950 HE
Nominal volume Flow at Dryer Inlet(1)	l/s	330	400	550	850	1100	1400
	m³/hr	1188	1440	1980	3060	3960	5040
Avg. purge air consumption	%	18	16	17.8	17.9	18	16.3
Inlet and outlet connections	DIN PN16	DN80	DN80	DN80	DN100	DN100	DN150
Pressure Drop over Dryer excluding Filters	barg	0.1	0.1	0.1	0.1	0.1	0.11
	psig	1.45	1.45	1.45	1.45	1.45	1.60
Optional Pre & After Filter Sizes(2)	Fine filter	TF 10 G HE	TF 10 G HE	FF 1 G HE	FF 2 G HE	FF 3 G HE	FF 4 G HE
	Super fine filter	TF 10 C HE	TF 10 C HE	FF 1 C HE	FF 2 C HE	FF 3 C HE	FF 4 C HE
	Dust filter	TF 10 S HE	TF 10 S HE	FF 1 S HE	FF 2 S HE	FF 3 S HE	FF 4 S HE
Mass	Kg	950	1030	1310	2120	2600	3700
	Lb	2109	2287	2908	4706	5772	8215
Height	mm	2537	2537	2592	2655	2637	2576
	inch	99.9	99.9	102.0	104.5	103.8	101.4
Width	mm	1088	1088	1091	1259	1259	1428
	inch	42.8	42.8	43.0	49.6	49.6	56.2
Length	mm	1776	1776	1884	2359	2472	2693
	inch	69.9	69.9	74.2	92.9	97.3	106.0

1. 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 at the outlet.
2. Filters are sized at reference conditions. Consult the AML of the filters for sizing outside the reference conditions.

Correction factor Kp x Kt for PDP -40/-70							
T inlet	Working Pressure barg (psig)						
°C(°F)	4.5 (65)	5 (73)	6 (87)	7 (102)	8 (116)	9 (131)	10 (145)
<=35(95)	0.59	0.70	0.88	1	1	1.05	1.10
40(104)	0.50	0.59	0.74	0.84	0.95	1.05	1.10
45(113)	0.42	0.50	0.62	0.71	0.80	0.89	0.98
50(122) for HIT	0.33	0.38	0.48	0.55	0.62	0.69	0.76

PDP Flow correction factor				
Dew point	°C	-40	-50	-60
	°F	-40	-58	-76
Dew point correction factor	Kdp	1	0.9	0.85

PH 55 - 550 S - The cost-efficient alternative to PH 55-550 HE

Features & Benefits

- Advanced energy management for lowest operating costs
  - Compressor synchronization
  - Purge nozzle optimization (2 nozzles)
  - PDP control (optional)
- High reliability and low maintenance costs thanks to unique valve design (patent pending)
- High-quality desiccant, resulting in a consistent PDP of -20°C/-3°F or -40°C/-40°F
- Spring-loaded desiccant, minimizing the risk of crushing
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- Designed for transportability & mountability
  - Wall-mounting kit for PH 55-140 S (optional)
- Advanced controller to monitor machine status at all times
- Desiccant bags for easy service from the top

General Specifications

- Heatless adsorption dryers: extruded profile design
- Dew points achievable: -20°C/-3°F & -40°C/-40°F
- Pressure range: 4-14 barg / 58-203 psig
- Ambient temperature range: 1-45°C/34-113°F
- Inlet temperature range: 1-50°C/34-122°F
- Power supply: 230VAC 50/60Hz & 115VAC 50/60Hz

Options

Wall mounting kit

PDP control

Incorporating high-quality components, PH heatless adsorption dryers provide you with clean, dry air to extend the life of your equipment and products. Heatless adsorption dryers use dry, expanded purge air to remove moisture from the desiccant material.

PH 55-550 S adsorption dryers are available in 2 PDP variants: -20°C/-4°F and -40C°/-40°F. The unique manifold (patent pending) includes pilot air controlled 3/2-way valves, which switch fast and reliably.

The desiccant is spring-loaded and housed in a robust extruded aluminum body, which can operate up to 14 barg/203 psig (fatigue load). Pre- and afterfilters are delivered as standard with every dryer.

Operating costs are optimized at all times thanks to the availability of compressor synchronization and purge nozzle optimization as standard and PDP control as option. The full machine status can be checked on the display of the controller and the vessel pressure gauges on the unit. The controller indicates whether power supply is connected, towers are pressurized, valves are functioning properly or preventive maintenance needs to be done. In case the optional PDP control is connected, the PDP value can monitored from the display. Alarms and warnings can also be triggered remote with the available voltage-free contacts.

Technical specifications for PH 55 S up to PH 550 S (standard version, PDP -40 ˚C)

Specification	Unit	PH 55 S	PH 75 S	PH 95 S	PH 120 S	PH 140 S	PH 190 S	PH 230 S	PH 275 S	PH 350 S	PH 420 S	PH 550 S
Nominal volume flow at dryer inlet	l/s	25	35	45	55	65	90	110	130	165	195	260
	m^3/hr	90	126	162	198	234	324	396	468	594	702	936
Regeneration air consumption average at max. flow (1) (2)	%	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Pressure drop at max. flow	barg	0.03	0.059	0.107	0.171	0.251	0.107	0.171	0.251	0.447	0.251	0.494
	psig	0.44	0.86	1.55	2.48	3.64	1.55	2.48	3.64	6.48	3.64	7.16
Connection inlet/ outlet	G	1/2"	1/2"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
	NPT	1/2"	1/2"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Integrated filter model	Super fine filter	TF 2 C S	TF 3 C S	TF 4 C S	TF 5 C S	TF 5 C S	TF 6 C S	TF 6 C S	TF 6 C S	TF 7 C S	TF 8 C S	TF 8 C S
	Dust filter	TF 2 S S	TF 3 S S	TF 4 S S	TF 5 S S	TF 5 S S	TF 6 S S	TF 6 S S	TF 6 S S	TF 7 S S	TF 8 S S	TF 8 S S
Height	mm	1070	1115	1285	1465	1615	1285	1465	1615	1695	1615	1915
	Inch	42.1	43.9	50.6	57.7	63.6	50.6	57.7	63.6	66.7	63.6	75.4
Width	mm	620	620	620	620	620	620	620	620	620	620	620
	Inch	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
Length	mm	401	401	401	401	401	571	571	571	571	738	738
	Inch	15.8	15.8	15.8	15.8	15.8	22.5	22.5	22.5	22.5	29.1	29.1
Mass	KG	87	88	99	114	124	165	197	211	245	298	328
	Lb	191.8	194.0	218.3	251.3	273.4	363.8	434.3	465.2	540.1	657.0	723.1

*1. Flow is measured at reference conditions: 1 bara and 25°C at operating pressure of 7 barg,inlet temperature 35°C & std PDP of -40°C at the outlet.

Flow correction factors due to air inlet pressure Kp												
Operating pressure	barg	4	5	6	7	8	9	10	11	12	13	14
Pressure correction factor	Kp	0.62	0.75	0.87	1	1.12	1.25	1.37	1.5	1.62	1.75	1.87

Flow correction factors due to air inlet temperature Kt								
Temperature	°C	20	25	30	35	40	45	50
Temperature correction factor	Kt	1	1	1	1	0.84	0.67	0.55

PH 760 - 3390 S - The cost-efficient alternative to PH 700-2950 HE

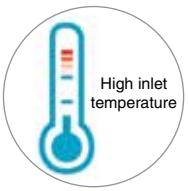
Features & Benefits

- Advanced energy management for lowest operating costs
  - Compressor synchronization
  - PDP control (optional)
- High-quality, high-efficient desiccant, selected for the right application
  - PDP -40°C/-40°F (std): Activated Alumina
- Minimal risk of crushed desiccant thanks to the optional sonic nozzle and the large vessel diameter
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- High reliability and robust design
- Low noise levels while purging
- Designed for transportability

General Specifications

- Heatless adsorption dryers: welded vessel design
- Dew point achievable: -40°C/-40°F
- Pressure range: 4-10 barg/58-145 psig
- Ambient temperature range: 1-40°C/34-104°F
- Inlet temperature range: 1-50°C/34-122°F
- Power supply: 230VAC 50 Hz; 115VAC 60Hz 3ph

Options



High inlet temperature

In and outlet filters

Wooden packaging

PDP control

Sonic nozzle

Pneumatic control
(not compatible with PDP sensor kit)

Vessel safety valves

Incorporating high-quality components, PH heatless adsorption dryers provide you with clean, dry air to extend the life of your equipment and products. Heatless adsorption dryers use dry, expanded purge air to remove moisture from the desiccant material.

PH 760-3390 S adsorption dryers are capable of drying air to a PDP of -40°C/-40°F. The desiccant is housed in welded vessels, which are coated and can operate up to 10 barg / 145 psig (fatigue load). Mounted pre- and after-filters can be ordered as an option.

Operating costs are optimized thanks to the availability of compressor synchronization as standard and PDP control as option.

The full machine status can be checked by the LEDs and display of the controller, indicating whether power supply is connected, towers are pressurized, solenoids are functioning properly or preventive maintenance needs to be done. In case the optional PDP control is connected, the PDP value can be read from the display and alarm LEDs become active if the PDP set point is not reached. Alarms and warnings can also be triggered remote with the two available voltage-free contacts. Thanks to the CAN-bus connection data exchange is possible to other timer cards, Purelogic™ controllers or service PCs.

Technical Specifications for PH 760S up to PH 3390S (standard version, PDP -40 ˚C)

Specification	Unit	PH 760 S	PH 1020 S	PH 1330 S	PH 2060 S	PH 2670 S	PH 3390 S
Nominal volume Flow at Dryer Inlet(1) (2)	l/s	360	480	630	970	1260	1600
	m^3/hr	1296	1728	2268	3492	4536	5760
Avg. purge air consumption	%	16.3	16.4	19	20.8	19.3	15.6
Pressure Drop over Dryer	barg	0.19	0.14	0.14	0.12	0.12	0.11
	psig	2.76	2.03	2.03	1.74	1.74	1.60
Inlet and Outlet Connections	G Thread/PN16	G2"	DN80	DN80	DN100	DN100	DN100
Optional Pre & After Filter Sizes(3)	Fine filter	TF 9 G HE	TF 10 G S	TF 11 G S	FF 2 G HE	FF 3 G HE	FF 4 G HE
	Super fine filter	TF 9 C HE	TF 10 C S	TF 11 C S	FF 2 C HE	FF 3 C HE	FF 4 C HE
	Dust filter	TF 9 S HE	TF 10 S S	TF 11 S S	FF 2 S HE	FF 3 S HE	FF 4 S HE
Mass	Kg	650	970	1240	2010	2470	3560
	Lb	1433	2138	2734	4431	5445	7848
Height	mm	1854	2549	2604	2643	2636	2576
	Inch	73.0	100.4	102.5	104.1	103.8	101.4
Width	mm	1854	2549	2604	2643	2636	2576
	Inch	43.9	38.9	33.2	40.9	40.9	56.2
Length	mm	1854	2549	2604	2643	2636	2576
	Inch	73.0	100.4	102.5	104.1	103.8	101.4

1. 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 at the outlet
2. Dryer designed for mentioned volume flow, based on average duty of 80%.
3. Filters are sized at reference conditions. Consult the AML of the filters for sizing outside the reference

Kp x Kt Correction factors for PH 760S - PH 3390S

T_{inlet}	Working Pressure barg(psig)						
°C(°F)	4.5 (65)	5 (73)	6 (87)	7 (102)	8 (116)	9 (131)	10 (145)
<=35(95)	0.59	0.7	0.88	1.00	1.00	1.05	1.10
40(104)	0.5	0.59	0.74	0.84	0.95	1.05	1.10
45(113)	0.42	0.5	0.62	0.71	0.80	0.89	0.98
50(122)	0.33	0.38	0.48	0.55	0.62	0.69	0.76

PDP Flow correction factors for PH 760S - PH 3390S

PDP	°C	-40	-50	-60
	°F	-40	-58	-76
Correction Factor	K_{dp}	1	0.9	0.85

PE 760 - 3390 S - Heated purge adsorption dryers

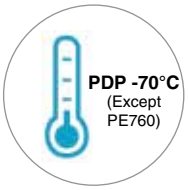
Features & Benefits

- Advanced energy management for lowest operating costs
  - Compressor synchronization
  - PDP control (optional)
  - Regeneration & cooling temperature control
- High-quality, high-efficient desiccant, selected for the right application
  - PDP -40°C/-40°F (std): Activated Alumina[1]
  - PDP -70°C/-94°F (option): Molecular sieves and Activated alumina
- Minimal risk of crushed desiccant thanks to the sonic nozzle and the large vessel diameter
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- High reliability and robust design
- Low noise levels while purging
- Designed for transportability
- High efficient heaters, designed for maximum lifetime and minimal risk
- Optimal control and monitoring thanks to the Purelogic™ controller

General Specifications

- Heated purge adsorption dryers: welded vessel design
- Dew points achievable: -40°C/-40°F & -70°C/-94°F
- Pressure range: 4-10 barg/58-145 psig
- Ambient temperature range: 1-40°C/34-104°F
- Inlet temperature range: 1-45°C/34-113°F
- Power supply: 400VAC 50Hz; 440-460VAC 60Hz

Options



PDP -70°C (Except PE760)

In and outlet filters

Wooden packaging (Std on PE760)

PDP control

Vessel insulation
(required for PDP-70°C option)

Vessel safety valves
(Std on PE760)

[1] *For PE760S (-40°C PDP) Desiccant used is silica gel WR & NWR.*

With distinctive, patented technology, PE adsorption dryers provide you with a dry air solution; at a lower initial investment cost than PB blower purge dryers and a lower lifecycle cost than PH heatless dryers. PE dryers use heated purge air to remove moisture from the desiccant material.

PE 760S-3390S adsorption dryers are capable of drying air to a PDP of -40°C/-40°F as standard and -70°C/-94°F as option. The desiccant is housed in welded vessels, which are coated and can operate up to 10 barg/145 psig (fatigue load). Mounted pre- and after- filters can be ordered as an option.

The Purelogic™ is the central brain of the adsorption dryer. It optimizes operating costs thanks to the availability of regeneration temperature control, PDP control (optional) and compressor synchronization; ensures maximum reliability by monitoring the most important parameters of the dryer; and offers impressive control and monitoring capabilities.

Technical specifications for PE 760S up to PE 3390S (standard version, PDP -40 ˚C)

Specification	Unit	PE 760 S	PE 1020 S	PE 1330 S	PE 2060 S	PE 2670 S	PE 3390 S
Nominal volume flow at dryer inlet(1) (2)	l/s	360	480	630	970	1260	1600
	m³/hr	1296	1728	2268	3492	4536	5760
Average purge air consumption	%	10	10	10	10	10	10
Pressure drop at max. flow	barg	0.27	0.17	0.17	0.17	0.17	0.11
	psig	3.92	2.47	2.47	2.47	2.47	1.60
Inlet and outlet connections	PN16	DN 50	DN 80	DN 80	DN 100	DN 100	DN 150
Optional pre & after filter sizes(3)	Fine filter	TF 9 G S	TF 10 G S	TF 11 G S	FF 2 G HE	FF 3 G HE	FF 4 G HE
	Super fine filter	TF 9 C S	TF 10 C S	TF 11 C S	FF 2 C HE	FF 3 C HE	FF 4 C HE
	Dust filter	TF 9 S S	TF 10 S S	TF 11 S S	FF 2 S HE	FF 3 S HE	FF 4 S HE
Mass	Kg	820	1130	1410	2280	2750	3560
	Lb	1808	2491	3109	5027	6063	7848
Height	mm	1829	2558	2612	2702	2684	2603
	inch	72	101	103	106	106	102
Width	mm	1075	930	930	1085	1085	1342
	inch	42	37	37	43	43	53
Length	mm	2200	1764	1884	2359	2472	2708
	inch	87	69	74	93	97	107

1. 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 at the outlet.
2. Dryer designed for mentioned volume flow, based on average duty of 80%.
3. Filters are sized at reference conditions. Consult the AML of the filters for sizing outside the reference conditions.

Correction factor Kp x Kt for -40°C PDP

T inlet	Working pressure barg (psig)						
°C (°F)	4.5 (65)	5 (73)	6 (87)	7 (102)	8 (116)	9 (131)	10 (145)
<=20 (68)							
25 (77)	0.89						
30 (86)	0.74	0.87					
35 (95)	0.59	0.7	0.88				
40 (104)	0.42	0.5	0.62	0.71	0.8	0.89	0.98
45 (113)	0.29	0.34	0.43	0.49	0.55	0.61	0.67

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Notes for PDP-40 variants
1) Correction factors are for 100% saturated compressed air

Correction factor Kp x Kt for -70°C PDP

T inlet	Working pressure barg (psig)						
°C (°F)	4.5 (65)	5 (73)	6 (87)	7 (102)	8 (116)	9 (113)	10 (145)
<=20 (68)							
25 (77)	0.89						
30 (86)	0.74	0.87					
35 (95)	0.59	0.70	0.88				
40 (104)	0.45	0.53	0.67	0.76	0.86	0.95	
45 (113)	0.34	0.40	0.51	0.58	0.65	0.73	0.80

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Notes for PDP-70 variants
1) Correction factors are for 80% saturated compressed air

PB 210 - 635 HE (P/ZP) - Blower purge / zero purge adsorption dryers

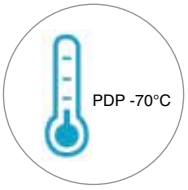
Features & Benefits

- Advanced energy management for lowest operating costs
  - Compressor synchronization
  - PDP control
  - Regeneration & cooling temperature control
  - Purge nozzle optimization (optional)
- Zero-purge variants for lowest life-cycle costs
  - Purge back-up mode for ambient conditions outside of limitations
- High-quality, high-efficient desiccant, selected for the right application
  - PDP -40°C/-40°F (std): silica gel WR & NWR
  - PDP -70°C/-94°F (optional): molecular sieves
- Minimal risk of crushed desiccant thanks to the sonic nozzle and the large vessel diameter
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- High reliability and robust design
- Low noise levels while purging
- Designed for transportability
- High efficient heaters, designed for maximum lifetime and minimal risk
- Compact, efficient and reliable side-channel centrifugal blower
- Optimal control and monitoring thanks to the Purelogic™ controller

General Specifications

- Blower purge & zero purge adsorption dryers: welded vessel design
- Dew points achievable: -40°C/-40°F & -70°C/-94°F (-70°C/-94°F only with Purge Cooled option)
- Pressure range: 4-14 barg/58-203 psig
- Ambient temperature range: 1-45°C/34-113°F
- Inlet temperature range: 1-50°C/34-122°F
- Power supply: 400VAC 50Hz; 440-460VAC 60Hz

Options



-70°C PDP variant available
(only available on blower purge variants)

Reverse in and outlet pipe

NEMA 4 electrical enclosure

Insulated vessels

Inlet Blower Filters

Purge nozzle optimization

PB dryers are for customers who focus on energy efficiency and low lifecycle costs, while maintaining the highest standards in air purity. PB dryers use heated blower purge air to remove moisture from the desiccant material and have therefore no purge loss during regeneration. The Zero Purge variants reduce life cycle cost even further by also eliminating purge loss during cooling.

PB 210-635 HE adsorption dryers are capable of drying air to a PDP of -40°C/-40°F as standard and -70°C/-94°F as option for purge units. The desiccant is housed in welded vessels, which are coated and can operate up to 14.5 barg/ 210 psig (fatigue load). All dryers are standard equipped with 2 coalescing pre-filters before and 1 particulate filter after the dryer.

Operating costs are reduced to the absolute minimum thanks to PDP control, regeneration & cooling temperature control and compressor synchronization; which are all integrated in the Purelogic™ controller. Zero Purge variants are equipped with a purge back-up mode which switches the dryer to purge cooling mode in case PDP could not be met at ambient conditions outside of limitations. The Purelogic™ also ensures maximum reliability by monitoring the most important parameters of the dryer and offers impressive control and monitoring capabilities.

Technical specifications for PB 210 HE up to PB 635 HE (ZP) (standard version, PDP -40 ˚C)

Specification	Unit	PB 210HE	PB 320 HE	PB 390 HE	PB 530 HE	PB 635 HE	PB210HEZP	PB320HEZP	PB390HEZP	PB530HEZP	PB 635 HE ZP
Cooling Mode	-	Purge	Purge	Purge	Purge	Purge	Zero Purge	Zero Purge	Zero Purge	Zero Purge	Zero Purge
Nominal volume flow at dryer inlet(1)	l/s	100	150	185	250	300	100	150	185	250	300
	m³/hr	360	540	666	900	1080	360	540	666	900	1080
Purge air consumption average	%	2	2	2	2	2	0	0	0	0	0
Pressure Drop Over Dryer	barg	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	psig	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
Inlet and outlet connections	G	1 ½”	1 ½”	1 ½”	2”	2”	1 ½”	1 ½”	1 ½”	2”	2”
	NPT	1 ½”	1 ½”	1 ½”	2”	2”	1 ½”	1 ½”	1 ½”	2”	2”
Standard Pre & after filter sizes	Fine filter	TF 6 G HE	TF 7 G HE	TF 8 G HE	TF 9 G HE	TF 9 G HE	TF 6 G HE	TF 7 G HE	TF 8 G HE	TF 9 G HE	TF 9 G HE
	Super fine filter	TF 6 C HE	TF 7 C HE	TF 8 C HE	TF 9 C HE	TF 9 C HE	TF 6 C HE	TF 7 C HE	TF 8 C HE	TF 9 C HE	TF 9 C HE
	Dust filter	TF 6 S HE	TF 7 S HE	TF 8 S HE	TF 9 S HE	TF 9 S HE	TF 6 S HE	TF 7 S HE	TF 8 S HE	TF 9 S HE	TF 9 S HE
Height	mm	1720	1770	1770	1816	1853	1855	1891	1891	1969	2006
	inch	67.7	69.7	69.7	71.5	73.0	73.0	74.4	74.4	77.5	79.0
Width	mm	770	870	870	955	1010	840	966	966	1098	1123
	inch	30.3	34.3	34.3	37.6	39.8	33.1	38.0	38.0	43.2	44.2
Length	mm	1250	1300	1300	1345	1425	1174	1360	1360	1580	1507
	inch	49.2	51.2	51.2	53.0	56.1	46.2	53.5	53.5	62.2	59.3
Mass	Kg	640	680	710	775	820	400	498	537	663	765
	Lb	1411	1499	1565	1709	1808	882	1098	1184	1462	1687

1. 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 at the outlet.
(For ZP versions inlet temperature is 33°C)

Flow correction factors due to air inlet pressure

Operating pressure	barg	4.5	5	6	7	8	9	10	11	12	13	14
	psig	65	72	87	100	116	130	145	160	174	189	203
Pressure correction factor	Kp	0.687	0.75	0.88	1	1.13	1.25	1.38	1.5	1.62	1.74	1.86

Flow correction factors due to air inlet temperature (For -40°C PDP Units with Silica Gel)

Temperature	°C	20	25	30	35	40	45
	°F	68	77	86	95	104	113
Temperature correction factor	Kt	1	1	1	1	0.75	0.55

Flow correction factors due to air inlet temperature (For -70°C PDP Units with Molecular Sieves)

Temperature	°C	20	25	30	35	40	45	50	55
	°F	68	77	86	95	104	113	122	131
Temperature Correction Factor	Kt	1	1	1	1	1	0.78	0.61	0.49

Flow correction factors due to Pressure Dew Point (For 11 barg Units)

Dew point	°C	0	-40	-70
	°F	32	-40	-94
Dew point correction factor	Kdp	1	1	0.8

PB 700 - 6350 HE (P/ZP) - Blower purge / zero purge adsorption dryers

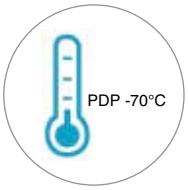
Features & Benefits

- Advanced energy management for lowest operating costs
  - Compressor synchronization
  - PDP control
  - Regeneration & cooling temperature control
  - Purge nozzle optimization (optional)
- Zero-purge variants with cooling in closed loop
  - Lowest life-cycle costs
  - Excellent performance at high ambient temperatures
  - Frequency controlled blower to guarantee optimal cooler performance
- High-quality, high-efficient desiccant, selected for the right application
  - PDP -40°C/-40°F (std): silica gel + activated alumina
  - PDP -70°C/-94°F and HIT (optional): activated alumina & molecular sieves
- Minimal risk of crushed desiccant thanks to the sonic nozzle and the large vessel diameter
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- High reliability and robust design
- Low noise levels while purging
- Designed for transportability
- Optimal control and monitoring thanks to the Purelogic™ controller

General Specifications

- Blower purge & zero purge adsorption dryers: welded vessel design
- Dew points achievable:
  -40°C/-40°F & -70°C/-94°F
  (-70°C/-94°F only with Zero Purge variants)
- Pressure range: 4-10 barg/58-145 psig
  (14 barg/ 203 psig available on request)
- Ambient temperature range:
  1-45°C/34-113°F (For temperatures above 40°C and up to 55°C see High Ambient Temp. option)
- Inlet temperature range: 1-45°C/34-113°F
  (For temperatures above 45°C see HIT option)
- Power supply: 400VAC 50Hz; 440-460VAC 60Hz

Options



-70°C PDP variant available
(only for ZP variants)

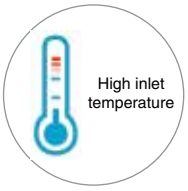
Insulated vessels
(std on -70°C PDP Variant)

Inlet Blower Filters

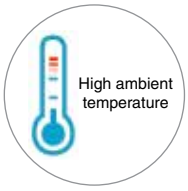
2nd PDP read out

Purge nozzle optimization

External pilot air connection for low pressure inlet



High inlet temperature variant
(not applicable on -70°C PDP)



High ambient temperature variant

In and outlet filters

Vessel safety valves

Wooden packaging

PB dryers are for customers who focus on energy efficiency and low lifecycle costs, while maintaining the highest standards in air purity. Pneumatech extends its PB dryer range to flows up to 10800 m³/hr with both blower purge and Zero Purge variants.

PB dryers use heated blower purge air to remove moisture from the desiccant material and have therefore no purge loss during regeneration. The Zero Purge variants reduce life cycle costs even further by also eliminating purge loss during cooling. The cooling phase happens in a closed loop, hereby minimizing the performance impact at high ambient temperature and relative humidity.

PB 700-6350 HE ZP dryers are capable of drying air to a PDP of -40°C/-40°F as standard and -70°C/-94°F as option. The desiccant is housed in welded vessels, which are coated and can operate up to 10 barg/145 psig (fatigue load). All dryers can be equipped with 2 coalescing pre-filters before and 1 particulate filter after the dryer.

Operating costs are reduced to the absolute minimum thanks to PDP control, regeneration & cooling temperature control and compressor synchronization; which are all integrated in the Purelogic™ controller. The Purelogic™ also ensures maximum reliability by monitoring the most important parameters of the dryer and offers impressive control and monitoring capabilities.

Technical specifications for PB 700 HE up to PB 6350 HE (standard version, PDP -40 ˚C)

Specification	Unit	PB700 HE	PB850 HE	PB1150 HE	PB1800 HE	PB2350 HE	PB2950 HE	PB3800 HE	PB4650 HE	PB6350 HE	PB700 HE ZP	PB850 HE ZP	PB1150 HE ZP	PB1800 HE ZP	PB2350 HE ZP	PB2950 HE ZP	PB3800 HE ZP	PB4650 HE ZP	PB6350 HE ZP
Cooling Mode	-	Purge	Purge	Purge	Purge	Purge	Purge	Purge	Purge	Purge	Zero Purge Air Cooled	Zero Purge Air Cooled	Zero Purge Air Cooled	Zero Purge Air Cooled	Zero Purge Air Cooled	Zero Purge Water Cooled	Zero Purge Water Cooled	Zero Purge Water Cooled	Zero Purge Water Cooled
Nominal volume flow at dryer inlet [1]	l/s	330	400	550	850	1100	1400	1800	2200	3000	330	400	550	850	1100	1400	1800	2200	3000
	m³/hr	1188	1440	1980	3060	3960	5040	6480	7920	10800	1188	1440	1980	3060	3960	5040	6480	7920	10800
Avg. purge air consumption	%	2%	2%	2%	2%	2%	2%	2%	2%	2%	0	0	0	0	0	0	0	0	0
Pressure drop over dryer	barg	0.12	0.12	0.12	0.12	0.12	0.1	0.16	0.22	0.18	0.12	0.12	0.12	0.12	0.12	0.1	0.16	0.22	0.18
	psig	1.74	1.74	1.74	1.74	1.74	1.45	2.32	3.19	2.61	1.74	1.74	1.74	1.74	1.74	1.45	2.32	3.19	2.61
Inlet and outlet connections	DN, acc to DIN2633 PN16	80	80	80	100	100	150	150	150	200	80	80	80	100	100	150	150	150	200
Optional pre & after filter sizes[2]	Fine filter	TF 10 G HE	TF 10 G HE	FF 1 G HE	FF 2 G HE	FF 3 G HE	FF 4 G HE	FF 5 G HE	FF 6 G HE	FF 7 G HE	TF 10 G HE	TF 10 G HE	FF 1 G HE	FF 2 G HE	FF 3 G HE	FF 4 G HE	FF 5 G HE	FF 6 G HE	FF 7 G HE
	Super fine filter	TF 10 C HE	TF 10 C HE	FF 1 C HE	FF 2 C HE	FF 3 C HE	FF 4 C HE	FF 5 C HE	FF 6 C HE	FF 7 C HE	TF 10 C HE	TF 10 C HE	FF 1 C HE	FF 2 C HE	FF 3 C HE	FF 4 C HE	FF 5 C HE	FF 6 C HE	FF 7 C HE
	Dust filter	TF 10 S HE	TF 10 S HE	FF 1 S HE	FF 2 S HE	FF 3 S HE	FF 4 S HE	FF 5 S HE	FF 6 S HE	FF 7 S HE	TF 10 S HE	TF 10 S HE	FF 1 S HE	FF 2 S HE	FF 3 S HE	FF 4 S HE	FF 5 S HE	FF 6 S HE	FF 7 S HE
Mass	Kg	1190	1300	1620	2600	3040	4200	4800	5750	7800	1370	1490	1830	2840	3340	4550	5150	6100	8150
	Lb	2624	2866	3571	5732	6702	9259	10582	12677	17196	3020	3285	4034	6261	7363	10031	11354	13448	17968
Height	mm	2558	2558	2612	2702	2681	2488	2548	2548	2793	2558	2558	2612	2702	2681	2548	2548	2548	2893
	inch	100.7	100.7	102.8	106.4	105.6	98.0	100.3	100.3	110.0	100.7	100.7	102.8	106.4	105.6	100.3	100.3	100.3	113.9
Width	mm	1024	1024	1024	1175	1175	2373	2400	2792	2834	1351	1351	1428	1530	1530	2779	2825	3009	3053
	inch	40.3	40.3	40.3	46.3	46.3	93.4	94.5	109.9	111.6	53.2	53.2	56.2	60.2	60.2	109.4	111.2	118.5	120.2
Length	mm	1764	1764	1884	2359	2472	2809	2830	2993	3385	1764	1764	1884	2359	2472	3122	3197	3197	3792
	inch	69.4	69.4	74.2	92.9	97.3	110.6	111.4	117.8	133.3	69.4	69.4	74.2	92.9	97.3	122.9	125.9	125.9	149.3

1. 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 at the outlet.
2. Filters are sized at reference conditions. Consult the AML of the filters for sizing outside the reference conditions.

Correction factor Kp x Kt for PDP-40

T inlet	Working pressure barg (psig)						
°C (°F)	4.5 (65)	5 (73)	6 (87)	7 (102)	8 (116)	9 (131)	10 (145)
<=20 (68)							
25 (77)	0.89						
30 (86)	0.74	0.87					
35 (95)	0.59	0.7	0.88				
40 (104)	0.42	0.5	0.62	0.71	0.8	0.89	0.98
45 (113)	0.29	0.34	0.43	0.49	0.55	0.61	0.67

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Notes for PDP-40 variants

1) Correction factor are for 100% saturated compressed air

2) For temperatures above 45 deg C see HIT-variant

PB 760 - 3390 S - The cost efficient alternative to PB 700-2950 HE

Features & Benefits

- Advanced energy management for lowest operating costs
  - Compressor synchronization
  - PDP control (optional)
  - Regeneration & cooling temperature control
- High-quality, high-efficient desiccant, selected for the right application activated alumina
- Minimal risk of crushed desiccant thanks to the sonic nozzle and the large vessel diameter
- Counter-current regeneration for optimal energy efficiency and guaranteed dry air
- High reliability and robust design
- Low noise levels while purging
- Designed for transportability
- High efficient heaters, designed for maximum lifetime and minimal risk
- Compact, efficient and reliable side-channel centrifugal blower
- Optimal control and monitoring thanks to the Purelogic™ controller

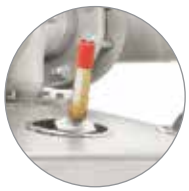
General Specifications

- Blower purge adsorption dryers: welded vessel design
- Dew points achievable: -40°C/-40°F
- Pressure range: 4-10 barg/58-145 psig
- Ambient temperature range: 1-40°C/34-104°F
  For ambient temperatures above 40 deg C see High Ambient Temperature variant
- Inlet temperature range: 1-45°C/34-113°F
  For temperatures above 45 deg C see HIT-variant
- Power supply: 400VAC 50Hz; 440-460VAC 60Hz

Options


Blower inlet filter


In and outlet filters

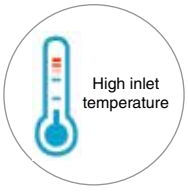

Vessel safety valves


External pilot air connection

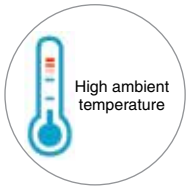

PDP control


Wooden packaging


Vessel insulation



High inlet temperature



High ambient temperature
(not on PB760S)

PB dryers are for customers who focus on energy efficiency and low lifecycle costs, while maintaining the highest standards in air purity. PB dryers use heated blower purge air to remove moisture from the desiccant material and have therefore no purge loss during regeneration.

PB 760-3390 S adsorption dryers are capable of drying air to a PDP of -40°C/-40°F. The desiccant is housed in welded vessels, which are coated and can operate up to 10 barg/145 psig (fatigue load). Mounted pre- and after-filters can be ordered as an option.

The Purelogic™ is the central brain of the adsorption dryer. It optimizes operating costs thanks to the availability of regeneration & cooling temperature control, PDP control (optional) and compressor synchronization; ensures maximum reliability by monitoring the most important parameters of the dryer; and offers impressive control and monitoring capabilities.

Technical specifications for PB 760S up to PB 3390S (standard version, PDP -40 ˚C)

Specification	Unit	PB 760 S	PB 1020 S	PB 1330 S	PB 2060 S	PB 2670 S	PB 3390 S
Maximum volume flow at dryer inlet (1) (2)	l/s	360	480	630	970	1260	1600
	m^3/hr	1296	1728	2268	3492	4536	5760
Average purge air consumption (3)	%	2%	2%	2%	2%	2%	2%
Pressure drop over dryer	barg	0.2	0.16	0.16	0.16	0.16	0.11
	psig	2.9	2.32	2.32	2.32	2.32	1.60
Inlet and outlet connections	G Thread/DN, acc to DIN2633 PN16	ISO 7-R2" (2)	DN80	DN80	DN100	DN100	DN150
Optional pre & after filter sizes(4)	Fine filter	TF 9 G S	TF 10 G S	TF 11 G S	FF 2 G HE	FF 3 G HE	FF 4 G HE
	Super fine filter	TF 9 C S	TF 10 C S	TF 11 C S	FF 2 C HE	FF 3 C HE	FF 4 C HE
	Dust filter	TF 9 S S	TF 10 S S	TF 11 S S	FF 2 S HE	FF 3 S HE	FF 4 S HE
Mass	Kg	1160	1355	1700	2720	3185	4470
	Lb	2557	2987	3748	5997	7022	9855
Height	mm	1829	2558	2612	2702	2681	2488
	inch	72.0	100.7	102.8	106.4	105.6	98.0
Width	mm	1028	1024	1024	1175	1175	2373
	inch	40.5	40.3	40.3	46.3	46.3	93.4
Length	mm	1100	1764	1884	2359	2472	2809
	inch	43.3	69.4	74.2	92.9	97.3	110.6

1. 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 at the outlet.
2. Dryer designed for mentioned volume flow, based on average duty of 80%.
2. Specially designed adapters are to be used when no filter is ordered.
4. Filters are sized at reference conditions. Consult the AML of the filters for sizing outside the reference conditions.

Correction factor Kp x Kt for PDP-40

T inlet	Working pressure barg (psig)						
°C (°F)	4.5 (65)	5 (73)	6 (87)	7 (102)	8 (116)	9 (131)	10 (145)
<=20 (68)							
25 (77)	0.89						
30 (86)	0.74	0.87					
35(95)	0.59	0.7	0.88				
40(104)	0.42	0.5	0.62	0.71	0.8	0.89	0.98
45(113)	0.29	0.34	0.43	0.49	0.55	0.61	0.67

"1,00"

Notes for PDP-40°C variants
1) Correction factor are for 100% saturated compressed air.

In-house design & manufacturing

Within Pneumatech we design and produce all our core drying, filtration and gas generator products in-house. We invest 3% of our total revenues in R&D. This results in an expert know-how of drying & filtration mechanisms, state-of-the-art test facilities and breakthrough innovations. From operations side, we distinct ourselves with our high level of automation and quality control in triple certified manufacturing production plants.

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ISO 14001

LLOYD'S REGISTER · LRQA
ISO 18001