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

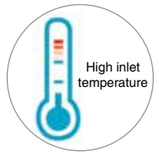
Features & Benefits

- 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