

Refrigerated Compressed Air Dryers | High Pressure Dryers | Compressed Air Filters | Separators
Conditioners for Compressed Air and Industrial Gas

Refrigerated Compressed Air Dryer PT HP 350/420

GENERAL

High pressure applications need safe and reliable equipment. The refrigerated compressed air dryer series PT HP 350/420 is consequently designed to special high pressure demands. It ensures an optimal conditioning of compressed air for applications up to 350/420bar.

For compressed air quality of class 4 (acc. DIN ISO 8573-1) modern refrigerated dryers are the most energy efficient and economic solution also for high pressure applications. The almost maintenance-free dryers of series PT HP 350/420 provide highest safety and long lifetime at constant high compressed air quality.

HEAT EXCHANGER

The dryers are equipped with generously dimensioned heat exchanger systems with stainless steel surface and vertical air flow. The heat exchangers work with self cleaning effects. The vertical air flow provides the best possible transport of liquids and particles. Stainless steel avoids corrosion and oxidation, ensures permanent smooth and clean heat exchanger surfaces.

SAPARATOR AND DRAIN

The ACD-modes of our series PT HP 350/420 are equipped with stainless-steel low-speed separators and time-relais condensate drains. Opening-times and -intervals are adjustable to the individual condensate load.

DIGITAL DISPLAY/CONTROL

The cooling circuit of the dryer is digitally controlled. Changes of operation conditions or fluctuations of the compressed air flow become optimally compensated by the combined digital-/GSBV-control.



FEATURES

- ◆ Stainless-steel heat exchanger system
- ◆ Pressure resistance up to 350/420bar
- ◆ Air flow up to 2.000l/min
- ◆ Pressure dew point 3°C
- ◆ Digital display/control
- ◆ Stainless-steel separator (ACD-model)
- ◆ Condensate drain (ACD-model)
- ◆ Compact, robust design

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TECHNICAL DATA

BASIC Models without separator, without condensate drain

Model	Air flow at 3°C PDP		Operating pressure [bar]	Power consumpt. [KW]	Air connection [in/out]	Electr. connection [V/Hz/Ph]	Dimensions [WxDxH]	Weight [kg]
	[m ³ /h]	[l/min]						
PT 27 HD	27	450	250-350/420	0,42	S12	230/50-60/1	500x250x805	39
PT 54 HD	54	900	250-350/420	0,56	S12	230/50-60/1	500x250x805	41
PT 85 HD	85	1.400	250-350/420	0,60	S12	230/50-60/1	500x430x845	50
PT 120 HD	120	2.000	250-350/420	0,70	S12	230/50-60/1	500x430x845	65
PT 150 HD	150	2.500	250-350/420	0,85	S12	230/50-60/1	500x430x845	69

ACD Models with separator, with condensate drain

Model	Air flow at 3°C PDP		Operating pressure [bar]	Power consumpt. [KW]	Air connection [in/out]	Electr. connection [V/Hz/Ph]	Dimensions [WxDxH]	Weight [kg]
	[m ³ /h]	[l/min]						
PT 27 HD	27	450	250-350/420	0,42	S12	230/50-60/1	500x250x805	48
PT 54 HD	54	900	250-350/420	0,56	S12	230/50-60/1	500x250x805	50
PT 85 HD	85	1.400	250-350/420	0,60	S12	230/50-60/1	500x430x845	59
PT 120 HD	120	2.000	250-350/420	0,70	S12	230/50-60/1	500x430x845	74
PT 150 HD	150	2.500	250-350/420	0,85	S12	230/50-60/1	500x430x845	78

Operating Conditions

Maximum compressed air inlet temperature	60°C
Permitted ambient temperature	2 - 43°C
Maximum operating pressure	350/420 bar

Reference Conditions

Pressure dew point (Class 4)	3 °C
Air flow in relation to	20 °C / 1 bar
Compressed air inlet temperature	35 °C
Cooling media temperature	25 °C
Operating pressure	250 - 350/420 bar

Subject to change without notice / Last update: 28.06.2013