

# HP-DRY SERIES

## HIGH PRESSURE HEATLESS REGENERATED ADSORPTION DRYERS

operating pressure	<b>50, 100, 250, 400 bar</b>
operating temp.range	<b>1,5 to 50 °C</b>
pressure dew points	<b>-40°C</b>
flow rate	<b>50 to 1600 Nm<sup>3</sup>/h</b>

### APPLICATIONS

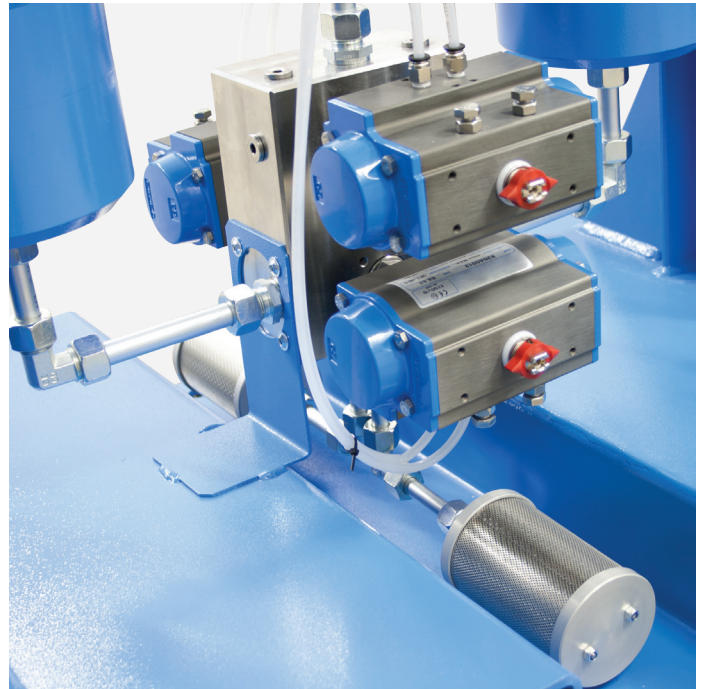
- compressed air systems

### DESCRIPTION

HP-DRY adsorption dryers have been designed for continuous separation of water vapour from compressed air thus reducing dew point. Operation of the dryer requires two columns operated alternately. Adsorption takes place under pressure in the first column while the second column regenerates with a portion of already dried compressed air at ambient pressure.

Dryers consists from control valves, controller with LED display and two columns filled with desiccant. Springs in the columns make sure that the desiccant beads will not move during operation. Proven robust design enables efficient and reliable operation, fast installation and simple maintenance.





50 bar version						
Type	Connection IN/OUT		Inlet flow <sup>(1)</sup>			
	"		[Nm <sup>3</sup> /h]			
HP-DRY 050 PN50	G 3/8"		50			
HP-DRY 100 PN50	G 3/8"		100			
HP-DRY 150 PN50	G 3/8"		150			
HP-DRY 250 PN50	G 3/8"		250			
HP-DRY 350 PN50	G 1/2"		350			
HP-DRY 500 PN50	G 1/2"		500			
HP-DRY 650 PN50	G 1/2"		650			
OPERATING PRESSURE 50 bar - CORRECTION FACTORS - C <sub>op</sub> (35°C; 100 bar)						
Operating pressure [bar]	20	30	35	40	45	50
Correction factor C <sub>op</sub>	0,41	0,61	0,71	0,81	0,90	1

100 bar version						
Type	Connection IN/OUT		Inlet flow <sup>(1)</sup>			
	"		[Nm <sup>3</sup> /h]			
HP-DRY 050 PN100	G 3/8"		50			
HP-DRY 100 PN100	G 3/8"		100			
HP-DRY 150 PN100	G 3/8"		150			
HP-DRY 250 PN100	G 3/8"		250			
HP-DRY 350 PN100	G 1/2"		350			
HP-DRY 500 PN100	G 1/2"		500			
HP-DRY 650 PN100	G 1/2"		650			
HP-DRY 800 PN100	G 1/2"		800			
OPERATING PRESSURE 100 bar - CORRECTION FACTORS - C <sub>op</sub> (35°C; 100 bar)						
Operating pressure [bar]	50	60	70	80	90	100
Correction factor C <sub>op</sub>	0,50	0,60	0,70	0,80	0,90	1,00

250 bar version						
Type	Connection IN/OUT		Inlet flow <sup>(1)</sup>			
	"		[Nm <sup>3</sup> /h]			
HP-DRY 050 PN250	G 3/8"		50			
HP-DRY 100 PN250	G 3/8"		100			
HP-DRY 150 PN250	G 3/8"		150			
HP-DRY 250 PN250	G 3/8"		250			
HP-DRY 350 PN250	G 1/2"		350			
HP-DRY 500 PN250	G 1/2"		500			
HP-DRY 650 PN250	G 1/2"		650			
HP-DRY 800 PN250	G 1/2"		800			
HP-DRY 1000 PN250	G 1/2"		1000			
HP-DRY 1200 PN250	G 1/2"		1200			
HP-DRY 1400 PN250	G 1/2"		1400			
OPERATING PRESSURE 50 bar - CORRECTION FACTORS - C <sub>op</sub> (35°C; 250 bar)						
Operating pressure [bar]	110	130	160	190	220	250
Correction factor C <sub>op</sub>	0,44	0,52	0,64	0,76	0,88	1,00

400 bar version							
Type	Connection IN/OUT		Inlet flow <sup>(1)</sup>				
	"		[Nm <sup>3</sup> /h]				
HP-DRY 100 PN400	G 3/8"		100				
HP-DRY 150 PN400	G 3/8"		150				
HP-DRY 250 PN400	G 3/8"		250				
HP-DRY 350 PN400	G 1/2"		350				
HP-DRY 500 PN400	G 1/2"		500				
HP-DRY 650 PN400	G 1/2"		650				
HP-DRY 800 PN400	G 1/2"		800				
HP-DRY 1000 PN400	G 1/2"		1000				
HP-DRY 1200 PN400	G 1/2"		1200				
HP-DRY 1400 PN400	G 1/2"		1400				
HP-DRY 1600 PN400	G 1/2"		1600				
OPERATING PRESSURE 50 bar - CORRECTION FACTORS - C <sub>op</sub> (35°C; 400 bar)							
Operating pressure [bar]	250	275	300	325	350	375	400
Correction factor C <sub>op</sub>	0,63	0,69	0,75	0,81	0,88	0,94	1,00

<sup>(1)</sup> Refers to 1bar(a) and 20°C at 7 bar operating pressure , inlet temperature 35°C and pressure dew point at outlet -40°C