



HPR-DRY SERIES

HIGH PRESSURE HEAT REGENERATION

up to **50 bar**
operating pressure

1,5 to 42,5 °C
inlet air temperature range

-40 °C
pressure dew points

2.485 to 23.400 Nm³/h
flow rate

RAL 5012
standard colour

DESCRIPTION

HPR-DRY adsorption dryers are designed for continuous separation of water vapour from compressed air thus reducing dew point. Operation of dryer requires two columns operated alternately.

Adsorption takes place under pressure in first column while second column regenerates with a heated ambient air or purge.

A dryer consists of two columns, filled with desiccant beads, blower, heater, controller with LCD display, valves, manometers, and support construction. Proven robust design enables efficient and reliable operation, fast installation and simple maintenance.



APPLICATIONS

- Compressed air systems



Protection class	IP 54
Filter (inlet)	super fine - 0,01 μm
Filter (outlet)	dust filter; 1 μm
Column insulation	optional

Type	Max. oper. pressure	Connection IN/OUT	Inlet nominal volume flow ⁽¹⁾
	bar	DN	[Nm ³ /h]
HPR-DRY 400	50	DN50	2,485
HPR-DRY 600	50	DN50	3,760
HPR-DRY 780	50	DN50	4,970
HPR-DRY 1000	50	DN50	5,930
HPR-DRY 1200	50	DN80	7,330
HPR-DRY 1600	50	DN80	10,200
HPR-DRY 2000	50	DN100	12,430
HPR-DRY 2500	50	DN100	16,120
HPR-DRY 3000	50	DN100	19,000
HPR-DRY 3600	50	DN100	23,400

OPERATING PRESSURE 50 bar - CORRECTION FACTORS - C_{op} (35 °C; 100 bar)

Operating pressure [bar]	25	30	35	40	45	50
Correction factor C_{op}	0,51	0,61	0,71	0,81	0,90	1

OPERATING TEMPERATURE - CORRECTION FACTORS - C_{ot}

Operating temperature [°C]	25	30	35	40	42,5
Operating temperature [F]	77	86	95	104	108
Correction factor C_{ot}	1	1	1	0,7	0,52

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

