

Refrigeration Dryers

HHDp SERIES

BENEFITS AND FEATURES

- Energy saving ColdWave™ system
- Energie Management Monitor emm™
- Corrosion-free air circuit, made of copper and stainless steel
- Powder-coated housing
- Made in Germany



Technical Data	HHDp 381 – 1451	HHDp 1800 – 5400	HHDp 6300 – 10800
Inlet / Outlet	Right	Flanges top position	Flanges top right/left position
Bypass		○	
Refrigerant	R 134a		R 404a
Air cooling		●	
Water cooling		○	
Heat Exchanger		Stainless steel (copper welded)	
IP rating		IP 44	
Dew point indication		Digital	
Potential free alarm contact		●	
Electronic level-controlled drain		●	

General Data	
Medium	Compressed Air
Housing	Steel
Colour - Top Panel	RAL 5015 (blue), powder-coated
Colour - Housing	Grey, powder-coated
Location	Indoors

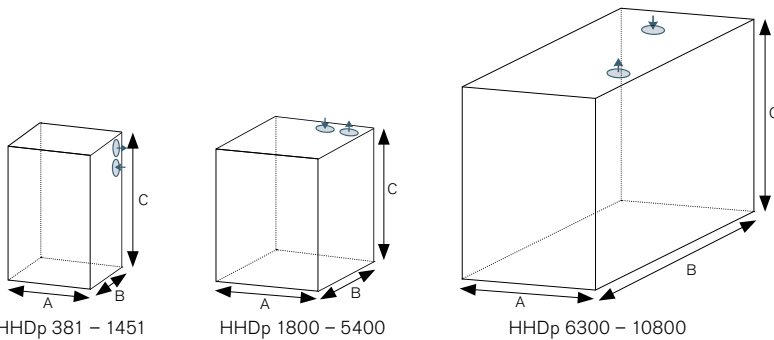
Design Data	Min.	Nom.	Max.
Operating pressure	3 bar (g)	7 bar (g)	16 bar (g)
Inlet temperature	+4° C	+35° C	+49° C
Ambient temperature	+3° C	+25° C	+43° C

Hankison® refrigerant compressed air dryers are best used with a Hankison® SF pre-filter and a HF after-filter.

Model	Flow Rate*	Connection	Dimensions			Weight	el. Connection	Power Consumption
			A	B	C			
	m ³ /h			mm		kg	V/Ph/Hz	kW
HHDp 381	380	R 1 1/2"	856	857	1,218	228	380-420/3/50 460/3/60	1.00/1.20
HHDp 481	480					255		1.46/1.75
HHDp 601	600					256		1.60/1.80
HHDp 791	790	R 2"	965	854	1,378	287		1.75/1.90
HHDp 951	950					328		2.25/2.50
HHDp 1151	1,150	R 2 1/2"	929	1,101	1,510	340	2.55/2.75	
HHDp 1451	1,450						2.99/3.20	

HHDp 1800	1,800	DN 80	1,232	1,033		520		4.90
HHDp 2250	2,250	DN 100	1,243	1,301		690		5.50
HHDp 2700	2,700					690		7.00
HHDp 3150	3,150	DN 150	1,400	1,509	2,162	880	400/3/50	8.70
HHDp 3600	3,600					880	460/3/60	9.20
HHDp 4500	4,500					1,050		10.80
HHDp 5400	5,400					1,200		13.40

* ISO 7183, based on the intake volume of the compressor at +20°C and 1 bar (a), operating pressure 7 bar (g), inlet temperature +35°C, ambient or cooling water temperature +25°C, pressure dew point +3°C | Technical data and specification are subject to change without prior notice



The following correction factors need to be used to select the correct unit for other operating conditions.

Correction factors for inlet temperature and operating pressure (F ₁)													
		Inlet pressure bar (g)											
Inlet temperature		3	4	5	6	7	8	9	10	11	12	13	14
°C	+25	1.42	1.50	1.57	1.63	1.67	1.72	1.76	1.81	1.84	1.87	1.90	1.93
	+30	1.00	1.08	1.13	1.18	1.22	1.25	1.29	1.33	1.36	1.38	1.41	1.44
	+35	0.79	0.87	0.92	0.96	1.00	1.03	1.07	1.10	1.13	1.16	1.18	1.21
	+40	0.63	0.72	0.77	0.81	0.84	0.87	0.91	0.93	0.96	0.98	1.00	1.02
	+45	0.51	0.60	0.65	0.68	0.71	0.74	0.78	0.80	0.82	0.84	0.86	0.88
	+50	0.43	0.52	0.56	0.60	0.63	0.65	0.67	0.70	0.73	0.75	0.77	0.80

Correction factors for different ambient temperatures in °C (F ₂)						
°C	+25	+30	+35	+40	+45	
HHDp 381 - 10800	1	0.94	0.89	0.83	0.78	

Selection example		Calculation
Compressor capacity (V ₁)	1,100 m ³ /h	$V_2 = \frac{V_1}{F_1 \cdot F_2} = \frac{1,100}{0.8 \cdot 0.89} = 1,545 \text{ m}^3/\text{h}$
Operating pressure (F ₁)	10 bar (g)	
Inlet temperature (F ₂)	+45 °C	
Ambient temperature	+35 °C	
V ₂	Required dryer capacity	



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