

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 407a
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	RAL 7016 (grey), powder-coated
Location	Indoors

Design Data	Min.	Nom.	Nom.	Max.
Operating pressure	3 bar (g)	7 bar(g)	10 bar (g)	16 bar (g)
Inlet temperature	+4° C	+35°C	+55° C	+50° C
Ambient temperature	+3° C	+25°C	+45° C	+45° C

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

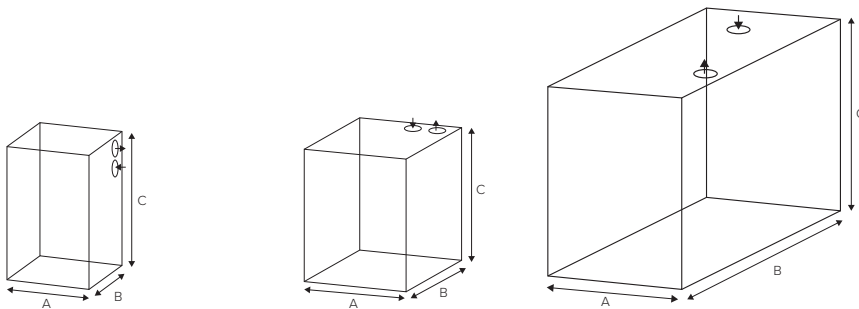
● standard ○ On request – not applicable

Model	Flow Rate*	Connection	Dimensions			Weight	el. Connection	Power Consumption
			A	B	C			
	m³/h			mm		kg	V/Ph/Hz	kW
HHDP 381	380	R 1 1/2"	856	857	1.218	228	380-420/3/50	1,00/1,20
HHDP 481	480		965	854	1.378	255		1,46/1,75
HHDP 601	600		965	854	1.378	256		1,60/1,80
HHDP 791	790	R 2"	929	1.101	1.510	328	460/3/60	1,75/1,90
HHDP 951	950	2,25/2,50						
HHDP 1151	1.150	2,55/2,75						
HHDP 1451	1.450	R 2 1/2"	929	1.101	1.510	328		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	400/3/50	7,00
HHDP 3150	3.150	DN 150	1.400	1.509	2.162	880	460/3/60	8,70
HHDP 3600	3.600					880		9,20
HHDP 4500	4.500					1.050		10,80
HHDP 5400	5.400				1.200			13,40

HHDP 6300	6.300	DN 200	2.963	1.411	2.803	1.850		17,4/19,8
HHDP 7200	7.200					1.950	400/3/50	18,4/21,2
HHDP 9000	9.000					2.080	460/3/60	21,6/24,8
HHDP 10800	10,800					2,090		26/31

* 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



HHDP 381 – 1451

HHDP 1800 – 5400

HHDP 6300 – 10800

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
	+55	○	○	○	○	○	○	○	○	○	○	○	○

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 m³/h	$V_2 = \frac{V_1}{F_1 \cdot F_2} = \frac{1.100}{0,8 \cdot 0,89} = 1.545 \text{ m}^3/\text{h}$	Selection: HHDP 1800
Operating pressure (F ₁)	10 bar (g)		
Inlet temperature (F ₂)	+45 °C		
Ambient temperature	+35 °C		
Required dryer capacity (V ₂)			

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