

# Refrigeration Dryers

H-PET SERIES - HIGH PRESSURE

## BENEFITS AND FEATURES

- Corrosion-free air circuit, made of copper and stainless steel
- Powder-coated housing
- Operating pressure up to 45 bar
- Made in Germany



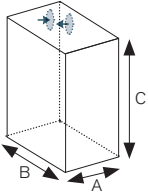
Technical Data	1.0 - 3.0	4.0 - 12.0
Inlet / Outlet	Right side panel (inlet), rear (outlet)	
Bypass	-	
Air cooling	●	
Water cooling	-	○
Heat Exchanger	Stainless steel plates	
IP rating	IP44	
Dew point indication	Digital	
Potential free alarm contact	○	●
Time-controlled condensate drain	●	○
Electronic level-controlled drain	○	●
Refrigerant	1.0 - 3.0	4.0 - 12.0
	R 513A	R 407A

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

● standard ○ optional – not available

Model	Flow Rate*	Connection	Dimensions			Weight	el. connection	Power Consumption
			A	B	C			
		mm			kg	V/Ph/Hz	kW	
HPET 1.0-700 AC/WC	510	2"	1,026	1,223	1,277	168	400/3/50	1.00
HPET 1.5-700 AC/WC	740					172		1.46
HPET 2.0-700 AC/WC	1,090					211		1.60
HPET 3.0-700 AC/WC	1,360					218		2.55
HPET 5.0-700 AC/WC	1,730					268		3.90
HPET 6.0-700 AC/WC	2,220	3"	1,370	1,605	1,464	465		5.30
HPET 7.5-700 AC/WC	2,900					590		7.40
HPET 10.0-700 AC/WC	3,280					710		9.20
HPET 11.0-700 AC/WC	4,100					710		9.70
HPET 12.0-700 AC/WC	5,550					719		12.70

\* ISO 7183, based on the intake volume of the compressor at +20°C and 1 bar (a), operating pressure 45 bar (g), inlet temperature +35°C, ambient or cooling water temperature at +25°C, pressure dew point +3°C. | Technical data and specifications are subject change without prior notice.



1.0-700 - 12.0-700

Design Data*	Min.	Nom.	Max.
Operating pressure	20 bar (g)	45 bar (g)	45 bar (g)
Inlet temperature	+4 °C	+35 °C	+49 °C
Ambient temperature	+3 °C	+25 °C	+43 °C

\* The following correction factors need to be used to select the correct unit for other operating conditions. Hankison® refrigerant compressed air dryers are best used with a Hankison® PF pre-filter and a HF after-filter.

Correction factors for different operating pressures in bar (g) (F <sub>1</sub> )						
bar (g)	20	25	30	35	40	45
HPET 1.0 - 12.0	0.88	0.92	0.94	0.96	0.98	1.00

Correction factors for different inlet temperatures in °C (F <sub>2</sub> )					
°C	+35	+40	+45	+49	
HPET 1.0 - 12.0	1.00	0.84	0.73	0.64	

Correction factors for different ambient temperatures in °C (F <sub>3</sub> )					
°C	+25	+30	+35	+40	+43
HPET 1.0 - 12.0	1.00	0.95	0.89	0.84	0.78

Selection example		Calculation	
Compressor capacity (V <sub>1</sub> )	1,200 m <sup>3</sup> /h	$V_2 = \frac{V_1}{F_1 \cdot F_2 \cdot F_3} = \frac{1200}{0.96 \cdot 0.84 \cdot 0.95} = 1,556 \text{ m}^3/\text{h}$	Selection: HPET 5.0-700
Operating pressure (F <sub>1</sub> )	35 bar (g)		
Inlet temperature (F <sub>2</sub> )	+40 °C		
Ambient temperature (F <sub>3</sub> )	+30 °C		
V <sub>2</sub>	Required dryer capacity		



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