

## Refrigeration Dryers

FLEX SERIES - ENERGY-SAVING DRYER

### BENEFITS AND FEATURES

- Energy-saving by using Phase Change Material (PCM)
- Constant pressure dew point
- Low service requirements
- Short payback time
- Optional interface



Technical Data	FLX 1.1 & 1.2	1.5 – 5.5
Inlet / Outlet		Rear
Bypass		○
Refrigerant	R 134a	R 407C
Air cooling		●
Heat Exchanger	Stainless steel plates (copper welded)	
IP rating	IP23	
Dew point indication	Digital LED, with alarm	
Potential free alarm contact	●	
Electronic level controlled drain	●	

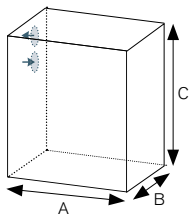
General Data	
Medium	Compressed Air
Housing	Steel
Colour - Panel	RAL 5015 (blue), powder-coated
Colour - Housing	Grey, powder-coated
Location	Indoors

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

\* The correction factors on the back 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 inlet-filter and a HF outlet-filter.

Model	Flow Rate*	Connection	Pressure loss	Dimensions			Weight	el. Connection	Power Consumption at 100%
				A	B	C			
	m <sup>3</sup> /h		bar	mm			kg	V/Ph/Hz	kW
FLX 1.1	127	1"	0.23	603	363	751	62	230/1/50	0.43
FLX 1.2	170		0.21	781	363	711	69		0.43
FLX 1.5	255		0.15	901	443	761	81		0.59
FLX 2.1	340	0.15	961	443	761	82	0.85		
FLX 3.1	509	2"	0.16	1,111	493	911	126		1.30
FLX 4.1	680		0.17	1,111	493	911	153	1.66	
FLX 5.5	935		0.23	1,203	493	1,032	178	2.00	

\* 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



Flex 1.1 – 5.5

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

Correction factors for different operating pressures in bar (g) (F <sub>1</sub> )					
bar (g)	5	7	8	10	16
FLX 1.1 – 5.5	0,92	1,00	1,03	1,10	1,24

Correction factors for different inlet temperatures in °C (F <sub>2</sub> )					
°C	+30	+35	+40	+45	+49
FLX 1.1 – 5.5	1,15	1,00	0,85	0,71	0,63

Correction factors for different ambient temperatures in °C (F <sub>3</sub> )					
°C	+25	+30	+35	+40	+49
FLX 1.1 – 5.5	1	0,92	0,85	0,80	0,78

Selection example		Calculation
Compressor capacity (V <sub>1</sub> )	300 m <sup>3</sup> /h	$V_2 = \frac{V_1}{F_1 \cdot F_2 \cdot F_3} = \frac{300}{1.10 \cdot 0.71 \cdot 0.85} = 452 \text{ m}^3/\text{h}$
Operating pressure (F <sub>1</sub> )	10 bar (g)	
Inlet temperature (F <sub>2</sub> )	+45 °C	
Ambient temperature (F <sub>3</sub> )	+35 °C	
V <sub>2</sub>	Required dryer capacity	
		Selection: FLX 3.1

**SPXFLOW**  
INDUSTRIAL

SPX Flow Technology Moers GmbH | Konrad-Zuse-Straße 25 | D-47445 Moers  
Tel.: +49 (0) 28 41 / 8 19-0 | Fax: +49 (0) 28 41 / 8 19 83 | E-Mail: info@spx-hankison.de  
www.spx-hankison.de | www.spx.com

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