

Liquid Chiller – compact version

HYFRA sigma-C

- Plug and play unit: easy to connect
- Compact Design due to micro channel technology
- Optimized design: up to 16kW in a 0,5 m³ cube
- Energy efficient: low power consumption
- Low noise level: for indoor factory hall usage
- Environmental friendly: 60% less refrigerant use



Energy
efficiency
Environment

15  16 kW

HYFRA sigma-C - Plug and Play liquid chiller

TECHNICAL DATA

		sigma-C 5	sigma-C 7	sigma-C 9	sigma-C 13	sigma-C 16
ambient temp. °C	water °C	cooling capacity kW				
32	10	3,33	4,67	6,00	8,67	10,67
	15	4,40	6,40	7,40	10,70	12,70
	20	5,33	7,33	8,67	12,67	14,67
37	10	2,67	4,00	4,67	7,33	8,67
	15	3,70	5,40	6,40	9,10	11,10
	20	4,70	6,67	8,00	10,67	13,33
42	10	2,00	3,33	4,00	6,00	8,00
	15	3,10	4,70	5,80	7,70	10,40
	20	4,00	6,00	7,50	9,33	12,67
refrigerant		R134a	R410A			
sound pressure level user side*(1)	dB(A)	68				71
power consumption max. *(3)	kW	3,5	3,9	4,5	5,9	6,6
current consumption max. *(3)	A	6,9	7,7	8,0	8,7	12,7
condenser	µChannel	1				
air flow rate max.	m³/h	3300				4500
tank capacity	ltr.	26				
water pressure	bar	3,4	3,3	4	3,6	3,9
nominal water flow	m³/h	1,2	1,5	1,8	2,0	
water connections	inch	3/4				
L / W / H	mm	720 / 835 / 930				
net weight (approx.)	kg	114	117	119	130	

*(1) sound pressure level measured in free field at a distance of 1m with tolerance of +/- 1dB(A)

Technical data temporarily

*(2) at 42°C ambient temperature and 20°C medium temperature

TECHNICAL DESCRIPTION:

- Stainless steel frame
- Particular economical and low noise Scroll compressors
- Full aluminum Micro-Channel Condenser
- Bypass valve for pump protection
- Free programmable temperature control with digital thermostat +/- 1,0 K
- External ON/OFF with potential free digital IN
- Common alarm

OPTIONS:

- Speed controled compressor, pump and/or fan
- DC-control voltage
- All common power supplies possible
- More powerful air fan for higher exhaust air pressure
- Harting- or Wieland connectors
- Smaller temperature hysteresis
- Ambient temperature for more than > 42° C
- Refrigerant R134a
- Water cooled condenser
- Differential control
- Winter start up kit for outside installation
- Application specific stronger pump

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