



Circulation Cooler oil and emulsion – compact version



HYFRA alpha-C series

- 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
- Environmental friendly: 60% less refrigerant use



5 16 kW



efficient process cooling – made in Germany

HYFRA alpha-C - Plug'n'Play circulation chiller

TECHNICAL DATA

ambient temp. °C	emulsion °C	oil °C	alpha-C 5	alpha-C 7	alpha-C 9	alpha-C 13	alpha-C 16
cooling capacity kW							
32	10	15	3,2	5,2	6,6	9,7	11,8
	15	20	4,0	6,2	7,8	11,5	13,9
	20	25	4,5	6,9	8,7	12,6	15,4
37	10	15	2,8	5,1	6,0	9,1	10,9
	15	20	3,6	6,1	7,2	10,7	13,0
	20	25	4,1	6,7	7,9	11,8	14,4
42	10	15	3,2	4,7	5,9	8,7	9,1
	15	20	3,4	5,7	7,1	10,2	11,4
	20	25	3,9	6,4	7,9	11,2	13,0

EMULSION

	R134a	R410A			
	kg	0,9	0,9	1,0	1,0
	dB(A)	71			74
	kW	3,7	4,1	4,7	6,1
	A	7,0	7,8	8,1	8,8
		1			
refrigerant		3300			
refrigerant charge		4500			
sound pressure level at user side*(1)		1,0			
power consumption max. *(2)		3,5			
current consumption max. *(2)		1 1/4			
condenser		710 / 710 / 930			
air flow rate max.		710 / 710 / 930			
medium pressure		125			
nominal flow		125			
connection inlet/outlet		125			
A / B / C		125			
Weight (approx.)	kg	119	117	119	125

OIL

	R134a	R410A			
	kg	0,9	0,9	1,0	1,0
	dB(A)	71			74
	kW	4,1	4,5	5,1	6,5
	A	8,0	8,8	9,1	9,8
		1			
refrigerant		3300			
refrigerant charge		4500			
sound pressure level at user side*(1)		1,0			
power consumption max. *(2)		3,5			
current consumption max. *(2)		1 1/2			
condenser		710 / 710 / 930			
air flow rate max.		710 / 710 / 930			
medium pressure		125			
nominal flow		125			
connection inlet/outlet		125			
A / B / C		125			
Weight (approx.)	kg	119	117	119	125

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

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

Technical data temporarily

Max. viscosity ISO VG 32

TECHNICAL DESCRIPTION:

- Cooling for Emulsion / Oil / Water
- Stainless steel frame and heat exchanger
- Particular economical and low noise Scroll compressors
- Full aluminum Micro-Channel Condenser
- Free programmable temperature control with digital thermostat +/- 1,0 K
- External ON/OFF with potential free digital IN
- Sealed medium circuit to protect against dust and dirt
- Flow control switch in return to improve safety control
- Common alarm

OPTIONS:

- DC-control voltage
- All common power supplies possible
- More powerful air fan for higher exhaust air pressure
- Harting- or Wieland connectors
- Smaller temperature hysteresis
- Air IN filter
- Ambient temperature for more than > 42° C
- Gear pump
- Refrigerant R134a
- Water cooled condenser
- Differential control
- Speed controlled compressor, pump and/or fan

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