



HENNLICH

Accumulators & Cooling



Air Cooler HCP



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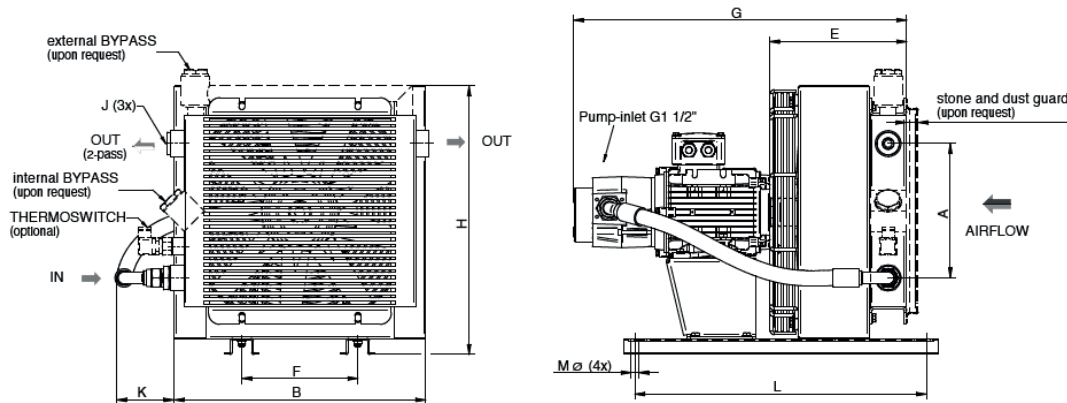
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HCP air cooler with e-motor and gerotor pump

This type of cooler with AC-motor and pump is designed for stationary applications, primarily for efficient cooling of various oils (hydraulic, lubrication, etc.). The compact design allows for simultaneous pumping and cooling, providing a simple and space-saving solution as a bypass cooler. Configurations include various accessories (filters, tank, flow monitors, pressure and/or temperature switches, etc.) and can be implemented as 1-pass or 2-pass.



Materials	
Cooling element	Aluminium (copper or stainless steel upon request)
Air fan	Aluminium and glass fibre reinforced plastic
Cooling frame part	C-steel powder coated
Protection grid	C-steel galvanised (Cr-VI-free)
Pump	Cast body, steel, aluminum, NBR (or Viton), ...
Main parts	black color RAL 9005 (excl. air fan, grid and motor)



HCP standard sizes		sound pressure LpA dB (A) 1m*	pole - power [kW]	Max. flow rate [l/min]	spec. cooling capacity [kW/°C]	cooling capacity at dT = 40 °C [kW]	weight [kg]
HCP-C27.21-4	20GP	59	4 - 0,75	20	0,07	2,7	25
HCP-C33.26-4	20GP	64	4 - 0,75	20	0,14	5,6	32
HCP-C33.26-4	40GP	64	4 - 0,75	40	0,18	7,2	32
HCP-C33.26-4	60GP	65	4 - 1,50	60	0,20	8,0	38
HCP-C33.26-4	80GP	65	4 - 1,50	80	0,21	8,2	38
HCP-C40.33-4	20GP	70	4 - 0,75	20	0,23	9,2	36
HCP-C40.33-4	40GP	70	4 - 0,75	40	0,26	10,4	36
HCP-C40.33-6	40GP	62	6 - 1,10	40	0,19	7,6	42
HCP-C40.33-6	55GP	62	6 - 1,10	55	0,22	8,8	42
HCP-C40.33-4	60GP	70	4 - 1,50	60	0,30	12,0	43
HCP-C40.33-4	80GP	70	4 - 1,50	80	0,33	13,2	43
HCP-C47.40-4	20GP	74	4 - 1,50	20	0,28	11,2	47
HCP-C47.40-4	40GP	74	4 - 1,50	40	0,39	15,6	47
HCP-C47.40-6	40GP	65	6 - 1,10	40	0,31	12,4	47
HCP-C47.40-6	55GP	65	6 - 1,10	55	0,35	14,0	47
HCP-C47.40-4	60GP	74	4 - 1,50	60	0,45	18,0	47
HCP-C55.48-4	80GP	74	4 - 1,50	80	0,49	19,6	47
HCP-C55.48-4	20GP	77	4 - 1,50	20	0,40	16,0	55
HCP-C55.48-4	40GP	77	4 - 1,50	40	0,53	21,2	55
HCP-C55.48-6	40GP	67	6 - 1,10	40	0,42	16,8	55

HCP standard sizes		sound pressure LpA dB (A) 1m*	pole - power [kW]	Max. flow rate [l/min]	spec. cooling capacity [kW/°C]	cooling capacity at dT = 40 °C [kW]	weight [kg]
HCP-C55.48-6	55GP	67	6 - 1,10	55	0,46	18,4	55
HCP-C55.48-4	60GP	77	4 - 2,20	60	0,61	24,4	65
HCP-C55.48-4	80GP	77	4 - 2,20	80	0,67	26,8	65
HCP-C64.59-4	60GP	85	4 - 3,00	60	0,80	32,0	80
HCP-C64.59-4	80GP	85	4 - 3,00	80	0,87	34,8	80
HCP-C64.59-6	55GP	77	6 - 2,20	55	0,65	26,0	95
HCP-C64.76-4	60GP	85	4 - 3,00	60	1,00	40,0	90
HCP-C64.76-4	80GP	85	4 - 3,00	80	1,12	44,8	90
HCP-C64.76-6	55GP	77	6 - 2,20	55	0,85	34,0	95

The values are based on typical hydraulic oil characteristics ISO VG32 at 40 °C

Other cooler sizes upon request.
Sound level tolerance +/- 3 dB(A)

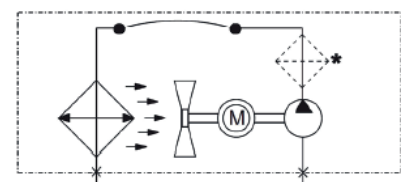
HCP standard sizes		B	F	H	J	K	L	A	E	G	Mø
HCP-C27.21-4	20GP	267	203/134	291	G1"	125	510	90	200	550	13
HCP-C33.26-4	20GP	365	203	396	G1"	105	510	159	215	560	13
HCP-C33.26-4	40GP	365	203	396	G1"	105	510	159	215	570	13
HCP-C33.26-4	60GP	365	203	396	G1"	105	510	159	215	570	13
HCP-C33.26-4	80GP	365	203	396	G1"	105	510	159	215	690	13
HCP-C40.33-4	20GP	440	203	471	G1"	105	510	234	240	585	13
HCP-C40.33-4	40GP	440	203	471	G1"	105	510	234	240	595	13
HCP-C40.33-6	40GP	440	203	471	G1"	105	510	234	240	695	13
HCP-C40.33-6	55GP	440	203	471	G1"	105	510	234	240	715	13
HCP-C40.33-4	60GP	440	203	471	G1"	105	510	234	240	695	13
HCP-C40.33-4	80GP	440	203	471	G1"	105	510	234	240	715	13
HCP-C47.40-4	20GP	496	203	527	G1"	105	510	225	265	700	13
HCP-C47.40-4	40GP	496	203	527	G1"	105	510	225	265	710	13
HCP-C47.40-6	40GP	496	203	527	G1"	105	510	225	265	720	13
HCP-C47.40-6	55GP	496	203	527	G1"	105	510	225	265	735	13
HCP-C47.40-4	60GP	496	203	527	G1"	105	510	225	265	720	13
HCP-C47.40-4	80GP	496	203	527	G1"	105	510	225	265	735	13
HCP-C55.48-4	20GP	580	356	611	G1"	105	610	308	280	710	13
HCP-C55.48-4	40GP	580	356	611	G1"	105	610	308	280	725	13
HCP-C55.48-6	55GP	580	356	611	G1"	105	610	308	280	750	13
HCP-C55.48-4	60GP	580	356	611	G1"	105	610	308	280	785	13
HCP-C55.48-4	80GP	580	356	611	G1"	105	610	308	280	805	13
HCP-C64.59-4	60GP	692	356	723	G1¼"	110	800	415	310	810	14
HCP-C64.59-4	80GP	692	356	723	G1¼"	110	800	415	310	830	14
HCP-C64.59-6	55GP	692	356	723	G1¼"	110	800	415	310	830	14
HCP-C64.76-4	60GP	692	356	867	G1¼"	110	800	593	335	835	14
HCP-C64.76-4	80GP	692	356	867	G1¼"	110	800	593	335	855	14
HCP-C64.76-6	55GP	692	356	867	G1¼"	110	800	593	335	875	14

GENERAL MOTOR DATA

3-phase motor
IP55, Insulation class F
temperature class B
Ambient air temperature motor
-20 TO MAX. 40 °C

special motors, PTC, heater, UL, ATEX, Marine-Design ... on request

Max. oil temperature [Tmax]
80 °C
Max. pump pressure
10 bar
Max. underpressure in the suction line of the pump: 0,2 bar (depending on viscosity)
Max. pressure in the suction line of the pump: 0,5 bar
Max. viscosity: 150 cSt



Further accessories on request.



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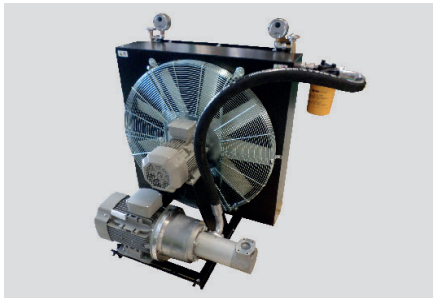
COOLER SELECTION:

For higher viscosities and/or higher pressures and temperatures, we request consultation with our technical team. Compact solutions are also available for higher temperatures and/or higher pressures. Higher volumetric flows up to a maximum of 500 l/min are achieved with a separate motor-pump unit.

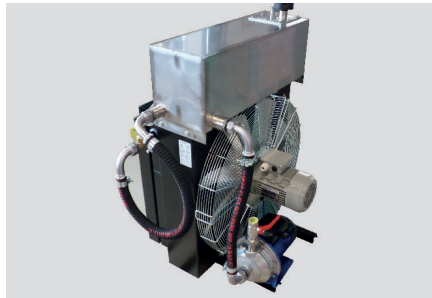
The pump is equipped without a pressure relief valve. Hydraulic protection (bypass with return to the tank) is to be provided by the customer. However, upon request, a bypass piping can be integrated into the pump for temporary protection. An optional bypass at the element is also available from stock.

It is strongly recommended to fill the suction line, including the pump or the system, with oil before commissioning. While the pump generally exhibits good suction behavior, care should be taken to ensure that the negative pressure in the suction line does not lead to cavitation or damage to the pump or the cooler unit.

OPTIONAL SOLUTIONS AND ACCESSORIES:



Lubricating Oil Cooling System



cooling system HCS (standard sizes)



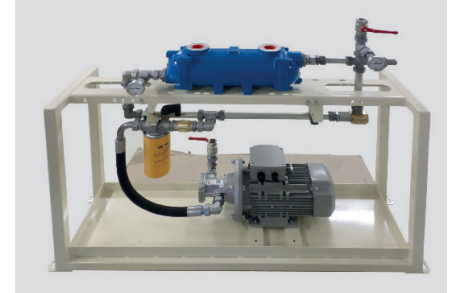
„Whisper“-Cooler (particularly quiet)



Lube oil cooling system



Cooling system with electrical control



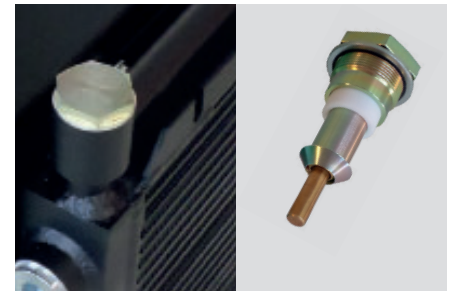
System with tube heat exchanger



Marine-painting



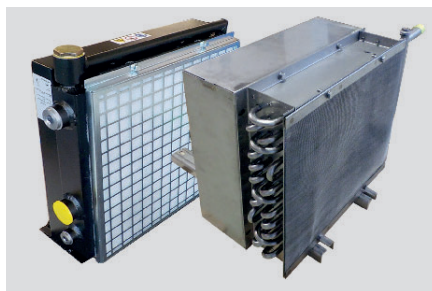
ATEX-execution



Pressure and thermal bypass



Temperature switch



Filter and dust protection



Rockfall-protection

Key code

HCP - C33.26 – 4D - 100 - XXGP - Z

Cooler type	
HCP.....xxGP	air cooler with motor and gerotor-pump
HCP.....xxZP	air cooler with motor and gear motor-pump
HCP.....xxSS	air cooler with motor and screw pump
HCPE.....xxYY	Design with more power of 10 - 30 %
HCPX	air cooler with ATEX-design
HCPM	aircooler with marine-design
Cooler size	
C27.21 until XXXX	acc. table
pole quantity	
2	2-pole (3000 1/min)
4	4-pole (1500 1/min)
6	6-pole (1000 1/min)
8	8-pole (750 1/min)
Z	special
Motor voltage	
A	3-phase 230/400V, 50 Hz
B	3-phase 265/460V, 60 Hz
C	1-phase 230V, 50/60 Hz
D	230/400V, 50 Hz; 265/460V, 60 Hz
E	3-phase 500V, 50 Hz
F	3-phase 400/690 V, 50 Hz
G	special voltage
Z	special motor
X	without Motor
Bypass-accessories	
1XX	1-Pass standard, without bypass valve
2XX	standard 2-pass
3XX	standard 3-pass
5XX	2-pass with accessories
X2X	bypass valve (2 bar)
X5X	bypass valve (5 bar)
XX4	thermostat 40 °C
XX5	thermostat 50 °C
XX6	thermostat 60 °C
XX7	thermostat 70 °C
XX8	thermostat 80 °C
XX9	thermostat 90 °C
X25	with internal thermal-bypass (2 bar, 50 °C)
Flow rate (max)	
20	20 l/min
40	40 l/min
60	60 l/min
80	80 l/min
XX	other flow rates of 0,5 until 100 l/min *
Internal codes	
GP, ...	internal designation
Options	
Z	Z Options for stone protection, dust protection, painting, filters, accessories, ...



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