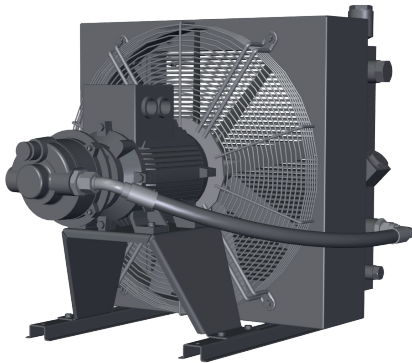


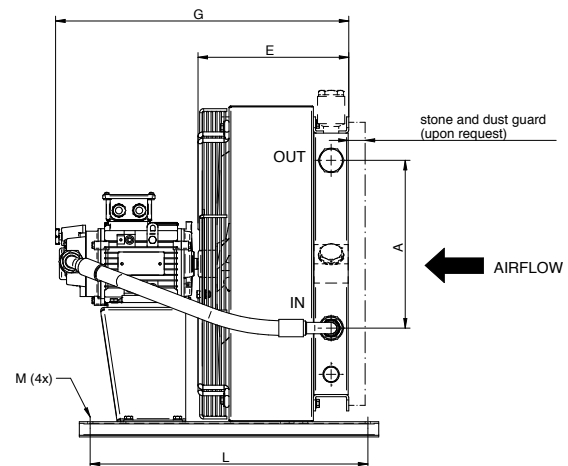
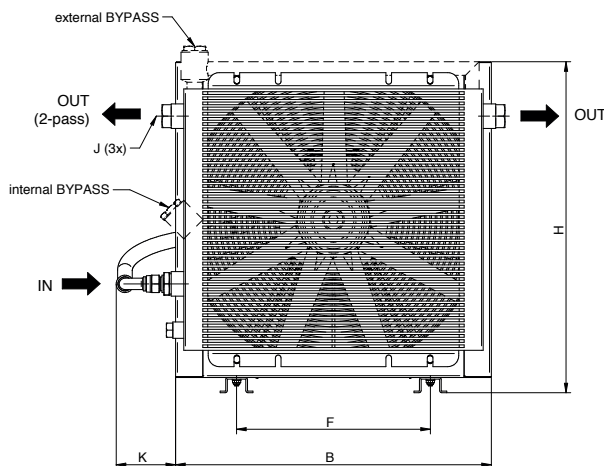


## HCP-aircooler with AC-motor and pump



This cooler type with alternating current motor and pump is applicable for stationary industry and has been developed for efficient cooling of hydraulic and lubrication oil. The tightly arranged design enables cooling and pumping simultaneously. Designs are available incl. various accessories (filter, tank, flow control, pressure and temperature switch,...) and as 1-pass or 2-pass.

Material	
Cooling element	Aluminium (copper or stainless steel upon request)
Air fan	Glass fibre reinforced plastic (PAG/PPG)
Sheet metal parts	C-steel powder coated
Protection grid	C-steel galvanised (Cr-VI-free)
Pump	Steel, casting, brass, viton,...
Main parts	black color RAL 9005 (excl. air fan, grid and motor)



HENNLICH Cooling-Technologies GmbH		Noise level LpA dB (A) 1m*	Pole - Power [kW]	Max. flow rate [l/min]	Spec. cooling capacity [kW/°C]	Cooling capacity at dT = 40 °C [kW]	Mass [kg]
<b>HCP standard sizes</b>							
HCP	B21.21-9	61	4 - 0,37	9	0,04	1,5	13
HCP	B21.21-18	64	2 - 0,55	18	0,06	2,4	15
HCP	C27.21-9	62	4 - 0,37	9	0,05	2	15
HCP	C27.21-18	64	2 - 0,55	18	0,07	2,9	17
HCP	C27.21-30	63	4 - 0,75	30	0,09	3,6	20
HCP	C33.26-30	64	4 - 0,75	30	0,15	6	23
HCP	C33.26-60	65	4 - 2,00	60	0,20	8	26
HCP	C40.33-30	65	4 - 0,75	30	0,24	9,6	26
HCP	C40.33-60	68	4 - 2,00	60	0,30	12	29
HCP	C47.40-30	66	4 - 0,75	30	0,33	13,2	33
HCP	C47.40-60	70	4 - 2,00	60	0,45	18	36
HCP	C55.48-30	72	4 - 0,75	30	0,39	15,6	43
HCP	C55.48-60	76	4 - 2,00	60	0,60	24	46
HCP	C64.59-30	72	4 - 0,75	30	0,45	18	56
HCP	C64.59-60	77	4 - 2,00	60	0,70	28	59
HCP	C64.76-30	72	4 - 0,75	30	0,54	21,6	69
HCP	C64.76-60	77	4 - 2,00	60	0,86	34,4	72



# HCP Aircooler

HENNLICH - Cooling - Technologies GmbH

HENNLICH Cooling-Technologies GmbH		B	F	H	J	K	L	A	E	G	Mø
<b>HCP standard sizes</b>											
HCP	B21.21-9	210	134	256	G3/4"	125	300	90	140	450	11
HCP	B21.21-18	210	134	256	G3/4"	125	300	90	140	450	11
HCP	C27.21-9	270	134	256	G1"	125	300	0	160	470	11
HCP	C27.21-18	270	134	256	G1"	125	300	0	160	470	11
HCP	C27.21-30	270	134	291	G1"	125	510	0	190	490	13
HCP	C33.26-30	367	203	396	G1"	105	510	159	225	530	13
HCP	C33.26-60	367	203	396	G1"	105	510	159	225	530	13
HCP	C40.33-30	442	203	471	G1"	105	510	234	245	550	13
HCP	C40.33-60	442	203	471	G1"	105	510	234	245	550	13
HCP	C47.40-30	498	203	527	G1"	105	510	225	265	570	13
HCP	C47.40-60	498	203	527	G1"	105	510	225	265	570	13
HCP	C55.48-30	582	356	611	G1"	105	510	308	280	590	13
HCP	C55.48-60	582	356	611	G1"	105	510	308	280	590	13
HCP	C64.59-30	694	356	723	G1¼"	110	510	415	315	620	13
HCP	C64.59-60	694	356	723	G1¼"	110	510	415	315	620	13
HCP	C64.76-30	694	356	867	G1¼"	110	510	593	340	645	13
HCP	C64.76-60	694	356	867	G1¼"	110	510	593	340	645	13

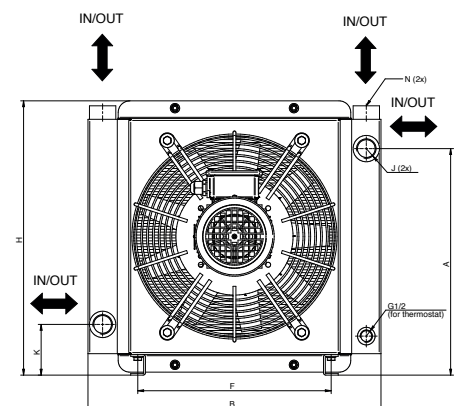
Figures are based on typical hydraulic oil data ISO VG32 at 40 °C

Other cooler types / dimensions upon request  
Noise level tolerance +/- 3 dB(A)

## General motor data

<b>3-phase motor</b>
IP55, Insulation class F temperature class B
Ambient air temperature motor -10 to max. - 40 °C

<b>Max. oil temperature [Tmax]</b>
75 °C
<b>Max. pump pressure</b>
6 bar
<b>Max. underpressure</b> in the suction line of the pump: 0,2 bar (depending on viscosity)
<b>Max. pressure</b> in the suction line of the pump: 0,5 bar
<b>Max. viscosity: 150 cSt</b>



## New:

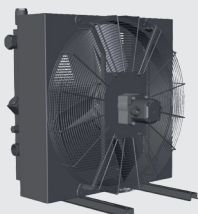
The Flex-Design => with in and outlets in all directions => for flexible connection

For higher viscosity the 2 kW-motor is applicable for the 30 l-pump as well. For higher temperature up to 250 °C and/or higher pressure we provide tailor-made solutions. Higher flow rates up to 500 l/min will be designed with separate pump-units.

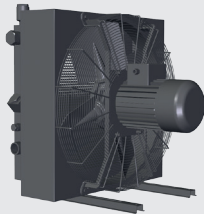
The pump includes an adjustable bypass-valve up to 6 bar. However, it is a displacement pump and allows bypass-operating only a short periode of time (max. 2 minutes).

It is absolute recommendable to prefill the suction line and the pump before starting the system. Basically the pump design allows underpressure, but its nessecary to prevent cavitation or any other damage at the pump and the HCT system.

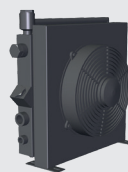
## Other types:



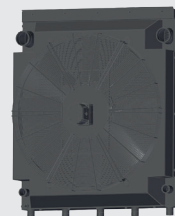
HCH with hydraulic motor



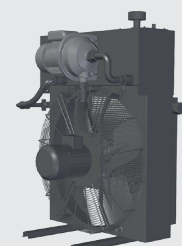
HCA with AC-Motor + pump



HCD with 12/24VDC



HCC for diesel engines



HCS cooling systems



## Key code

## HCP - C33.26 – 4D - 100 - XXFZ - Z

Cooler type	
HCP	air cooler with AC-motor and pump
HCPF	flex-design with AC-motor and pump
HCPX	aircooler with ATEX-design
HCPM	aircooler with marine-design
Cooler size	
B21.21 to 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	230/400V, 50 Hz / 3-phase
B	275/480V, 60 Hz / 3-phase
C	230V, 50/60 Hz / 1-phase
D	230/400V, 50 Hz; 275/480V, 60 Hz
E	500V, 50 Hz / 3-phase
F	400/690 V, 50 Hz / 3-phase
G	special voltage
Z	special motor
X	without motor
Bypass-accessories	
1XX	1-pass excl. bypass valve)
2XX	standard 2-pass
3XX	standard 3-pass
5XX	2-pass with accessoires
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)
X26	with internal thermal-bypass (2 bar, 60 °C)
Flow rate (maximum)	
9	9 l/min
18	18 l/min
30	30 l/min
60	60 l/min
XX	other flow rates
Internal codes	
FZ, ...	
Internal codes	
Z	Options for stone and dust guard, painting, filter, switches, accessories, ...

