

Made for Motion



Hydraulic Components

Bellhousings
Damping elements
Cooling systems
Oil tanks

Oil/air coolers type OAC

Cooling systems

High-performance cooling of hydraulic and lubricating oils



A compact and high-performance cooler series comprising twelve sizes was developed for high-performance cooling of hydraulic and lubricating oils.

Application:

- Construction machinery
- Agricultural machinery
- Rail technology
- Machine tools
- Hydraulic power packs
- Wind power
- Hydraulic presses
- Iron and steel industry, etc.

Applicable for cooling of:

- Hydraulic oil
- Gear oil
- Lubricating oil
- Water-glycol (min. 40 % glycol)

Structure:

- Cooler core (plate and bar) made of aluminium with industrial lamina in black (RAL 9005)
- Fan cover made of steel in black (RAL 9005)
- Fan made of nylon PAG
- Protective grid made of steel in black (RAL 9005)
- Fan 12/24V IP68, 230/400V, 400/690V, IP55
- Fan with hydraulic drive

Marine design:

- Cooler core, frame, fan cover with double-component paint
- Electric motor with special painting and protection class IP56

ATEX design:

- Electric motor in ATEX design Ex II 2 G Exell T3
- Special fan for ATEX design: II 2G c IIB+H2 T X, II 3D c T X
- Special fan (stainless steel) for ATEX design: II 2G c IIC T X

Accessories:

- Thermal bypass valves
- Oil thermostat valve (OTV)
- Protective grid
- Temperature switch (TSC)

The OAC coolers have to be protected from direct solar radiation.

Selection system

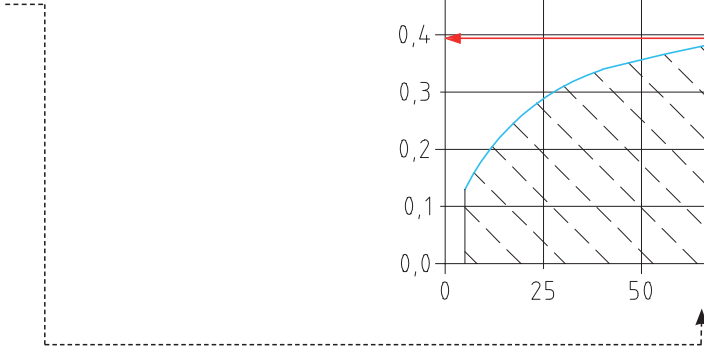
To select the suitable cooler you need to know the following details:

Q [kW]	Heat to be dissipated
V [l/min]	Oil flow
T _{oil} [°C]	Inlet temperature of oil into cooler
T _L [°C]	Inlet temperature of ambient air into cooler

Example of calculation

Details given:

Q = 12 kW
V = 75 l/min
T _{oil} = 65 °C
T _L = 30 °C



Calculation of specific cooling capacity

Difference of inlet temperature ETD [°C] = T_{oil} - T_L

Specific cooling capacity required P_{requ.} = Q/ETD

The specific cooling capacity required must fall below the performance curve! → 12 kW/(65 °C - 30 °C) = 0.34 kW/°C

The following was selected: OAC400

The actual cooling capacity of the cooler is 0.39 kW/°C x 35 °C = 13.65 kW

Calculation of pressure loss

The pressure loss in the curves of the different data sheets is based on a viscosity of 30 cSt.

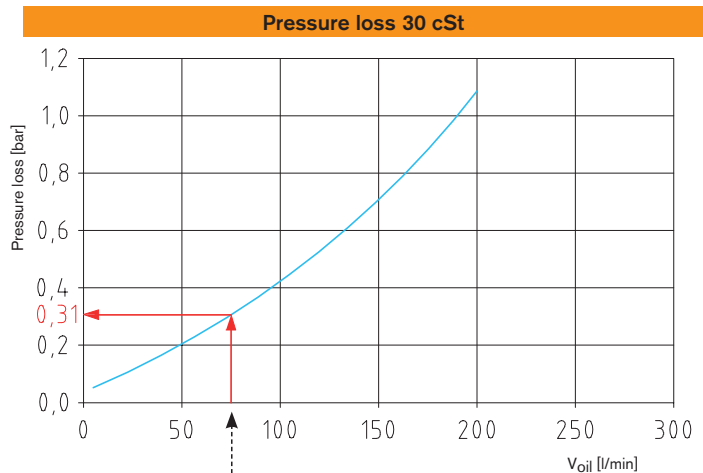
The effective pressure loss is calculated as follows:

Pressure loss (from curve) x factor = effective pressure loss

Example

V _{oil} : 75 l/min
Viscosity: 20 cSt

→ 0.31 bar x 0.75 = 0.233 bar



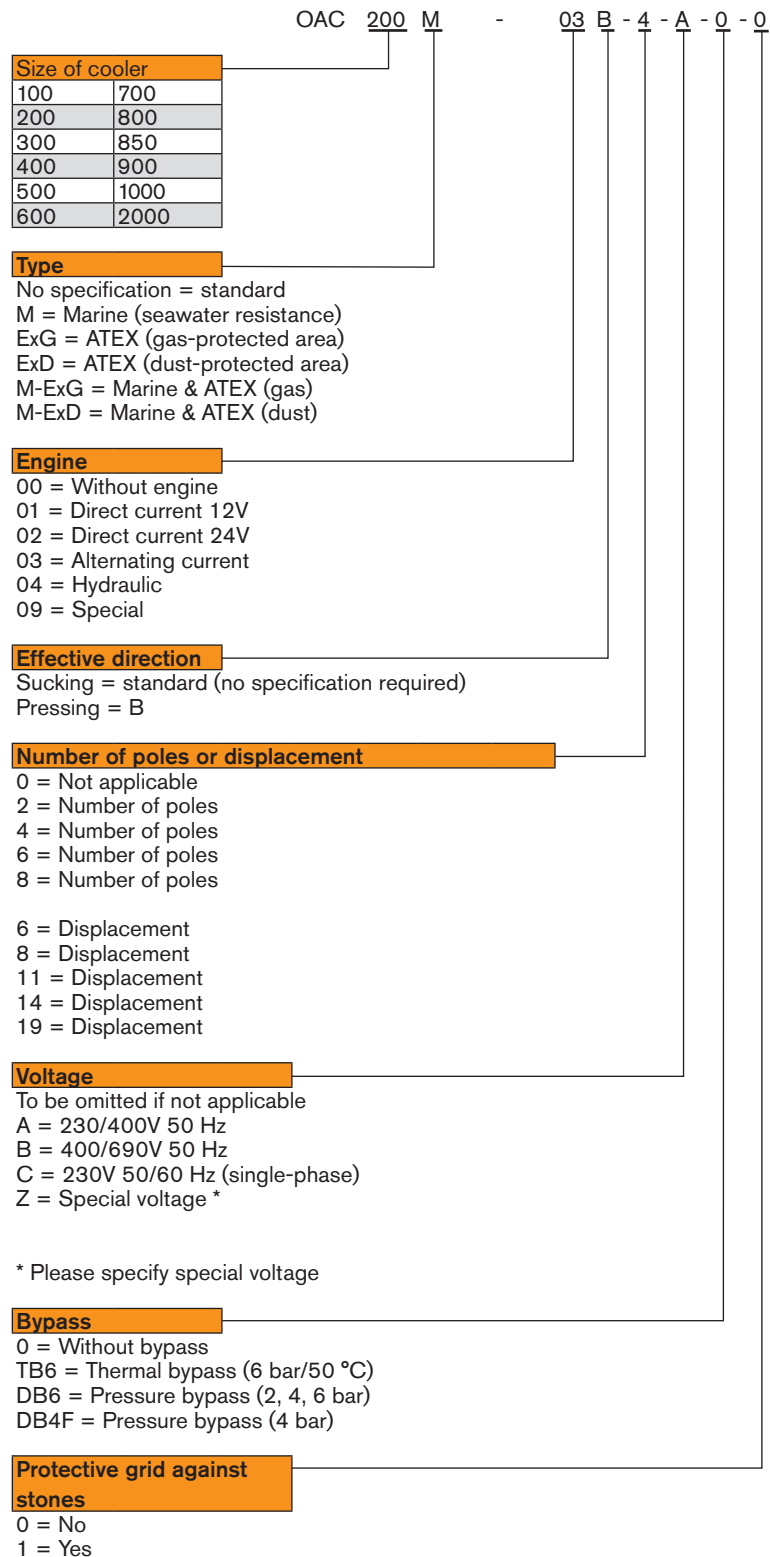
Conversion factor of pressure loss

cSt	10	15	20	30	40	50	60	80	100
Factor	0.5	0.65	0.75	1	1.2	1.4	1.6	2.1	2.8

Oil/air coolers type OAC

Cooling systems

Type code of industrial coolers oil/air



Oil/air coolers type OAC

Cooling systems

Technical data

12V and 24V fan drive										
Cooler type ¹⁾	Voltage [V]	Drive [kW]	Speed [rpm]	Amperage [A]	Protection class	Fan Ø [mm]	Perm. pressure [bar]		Max. volume flow [l/min]	Weight [kg]
							Static	Dynamic		
OAC100-01	12	0.09	3950	7.2	IP68	190			50	6
OAC100-02	24	0.06	3625	2.6	IP68	190			50	6
OAC200-01	12	0.10	2838	8.2	IP68	280			100	11
OAC200-02	24	0.11	2925	4.4	IP68	280			100	11
OAC300-01	12	0.22	3080	18.4	IP68	350			160	16
OAC300-02	24	0.23	2730	9.4	IP68	350			160	16
OAC400-01	12	0.22	3080	18.4	IP68	350			220	22
OAC400-02	24	0.23	2730	9.4	IP68	350			220	22
OAC500-01	12	0.24	2600	20.2	IP68	385	26	14	200	30
OAC500-02	24	0.24	2700	9.8	IP68	385			200	30
OAC600-01	12	2 x 0.10	2838	2 x 8.2	IP68	280			250	43
OAC600-02	24	2 x 0.11	2925	2 x 4.4	IP68	280			250	43
OAC700-01	12	2 x 0.24	2600	2 x 20.2	IP68	385			350	53
OAC700-02	24	2 x 0.24	2700	2 x 9.8	IP68	385			350	53
OAC800-01	12	2 x 0.24	2600	2 x 20.2	IP68	385			350	81
OAC800-02	24	2 x 0.24	2700	2 x 9.8	IP68	385			350	81

Oil/air cooler type OAC eco							
Cooler type ¹⁾	Voltage [V]	Drive [kW]	Speed [rpm]	Max. volume flow [l/min]	Current [A]	Protection class	Fan Ø [mm]
OAC300 eco	24	0.38	3400	160	14.5	IP65	305
OAC400 eco				200			
OAC500 eco	24	0.34	2570	200	13	IP65	385
OAC600 eco				250			

230/400V with 50 Hz; 460V with 60 Hz fan drive														
Cooler type ²⁾	Driving power [kW]		Speed [rpm]		Amperage [A]		Protection class		Fan Ø [mm]	Noise [dba]	Perm. pressure [bar]		Max. volume flow [l/min]	Weight [kg]
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	Standard	Marine			Static	Dynamic		
OAC100-03 C	0.07	0.08	2500	2700	0.29	0.33	IP54	-	250	64			50	16
OAC200-03 C	0.12	0.16	2450	2650	0.55	0.72	IP54	-	250	69			100	16
OAC200-03	0.18	0.21	1350	1650	0.58	0.57	IP55	IP56	280	66			100	16
OAC300-03	0.37	0.43	1370	1670	1.04	1.02	IP55	IP56	380	76			160	24
OAC300-03 D	0.14	0.17	1400	1600	0.35	0.32	IP44	-	350	72	26	14	160	21
OAC400-03	0.37	0.43	1370	1670	1.04	1.02	IP55	IP56	380	76			200	29
OAC500-03	0.37	0.43	1370	1670	1.04	1.02	IP55	IP56	380	78			200	37
OAC600-03	0.75	0.86	1440	1740	1.79	1.72	IP55	IP56	520	78			250	57
OAC700-03	0.75	0.86	1440	1740	1.79	1.72	IP55	IP56	520	78			350	70
OAC800-03	1.5	1.75	1435	1730	3.3	3.3	IP55	IP56	630	78			350	97
OAC850-03	2.2	2.55	965	1165	5.2	4.75	IP55	IP56	750	79			350	130
OAC900-03-6	2.2	-	965	-	5.2	-	IP55	IP56	900	85			450	173
OAC900-03-4	7.5	-	1465	-	14.3	-	IP55	IP56	900	97			450	205
OAC1000-03-6	2.2	-	965	-	5.2	-	IP55	IP56	900	87	21	14	700	187
OAC1000-03-4	7.5	-	1465	-	14.3	-	IP55	IP56	900	97			700	212
OAC2000-03-6	7.5	-	980	-	16	-	IP55	IP56	1000	92			700	357
OAC2000-03-4	18.5	-	1470	-	35	-	IP55	IP56	1000	100			700	429

Fan with hydraulic drive										
Cooler type ¹⁾	Displacement [ccm]	Speed [rpm]	Fan Ø [mm]	Noise [dba]	Perm. pressure [bar]		Max. volume flow [l/min]	Weight [kg]	Volume flow [l/min]	Pressure [bar]
					Static	Dynamic				
OAC200-04-06	6.30		280	66			100	15	10	4
OAC300-04-06	6.30		380	75				21	10	18
OAC300-04-08	7.90		380	75			160	21	13	15
OAC300-04-11	10.90		380	75				21	18	11
OAC400-04-06	6.30		380	74				25	10	18
OAC400-04-08	7.90		380	74			200	25	13	15
OAC400-04-11	10.9		380	74				25	18	11
OAC500-04-06	6.3		380	74				34	10	18
OAC500-04-08	7.9		380	74			200	34	13	15
OAC500-04-11	10.9	1500	380	74	26	14		34	18	11
OAC600-04-06	6.3		520	78				50	11	30
OAC600-04-08	7.9		520	78			250	50	13	27
OAC600-04-11	10.9		520	78				50	20	17
OAC700-04-06	6.3		520	78				60	11	30
OAC700-04-08	7.9		520	78			250	60	13	27
OAC700-04-11	10.9		520	78				60	20	17
OAC800-04-11	10.9		630	78				88	18	34
OAC800-04-14	13.9		630	78			350	88	22	27
OAC850-04-11	10.9		750	79				110	12	58
OAC850-04-14	13.9	1000	750	79			350	110	15	45
OAC900-04-14	13.9		900	85				155	15	111
OAC900-04-19	18.8		900	85	21	14	450	155	20	82
OAC900-04-19	28.2	1500	900	95				155	46	132
OAC1000-04-19	18.8	1000	900	85			530	188	20	82
OAC1000-04-19	28.2	1500	900	97				188	46	132
OAC2000-04-44	44.1	1000	1000	92			700	295	48	87
OAC2000-04-44	66.2	1500	1000	100				295	107	126

¹⁾ Max. media temperature: 110 °C (higher temperatures on request)/Max. ambient temperature: 60 °C

²⁾ Max. media temperature: 110 °C (higher temperatures on request)/Max. ambient temperature: 40 °C

Oil/air cooler type OAC eco

Cooling systems

Reducing noise and saving energy



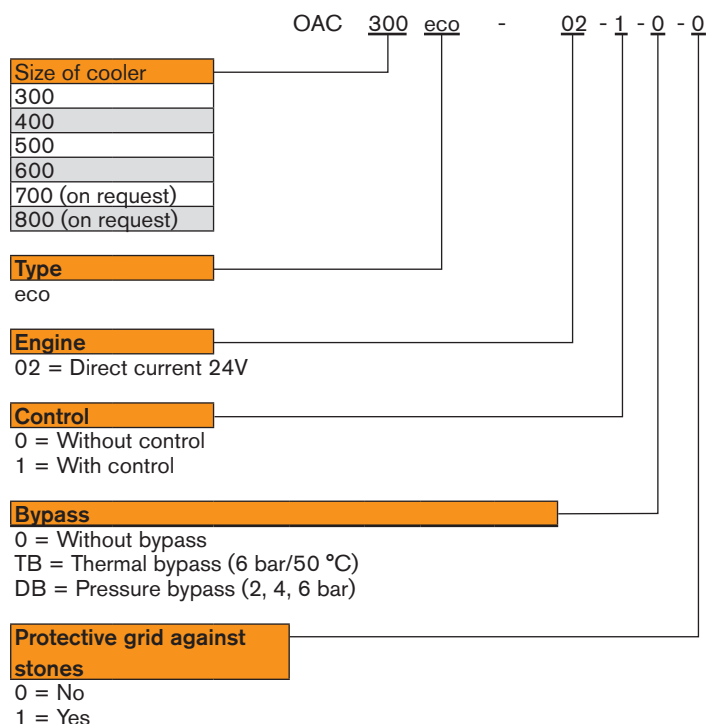
- Energy consumption optimised to requirements
- Variable-speed fan motor
- Infinitely variable adaptation of cooling capacity based on requirements
- Operating voltage 24V
- Protection class IP65
- Cooling capacity up to 25 kW with ΔT : 40 °K
- CE certification
- High-performance cooler core made of aluminium for a maximum static operating pressure of 10 bar
- Three temperature curves pre-set
- Cleaning operation & program change at the touch of a button during operation
- Oil inlet temperature is permanently displayed

Structure

- Cooler core made of aluminium
- Fan cover made of steel
- Fan made of nylon incl. protective grid
- Motor 24V, IP65
- TFSC (Temperature Fan Speed Control)
- Temperature sensor

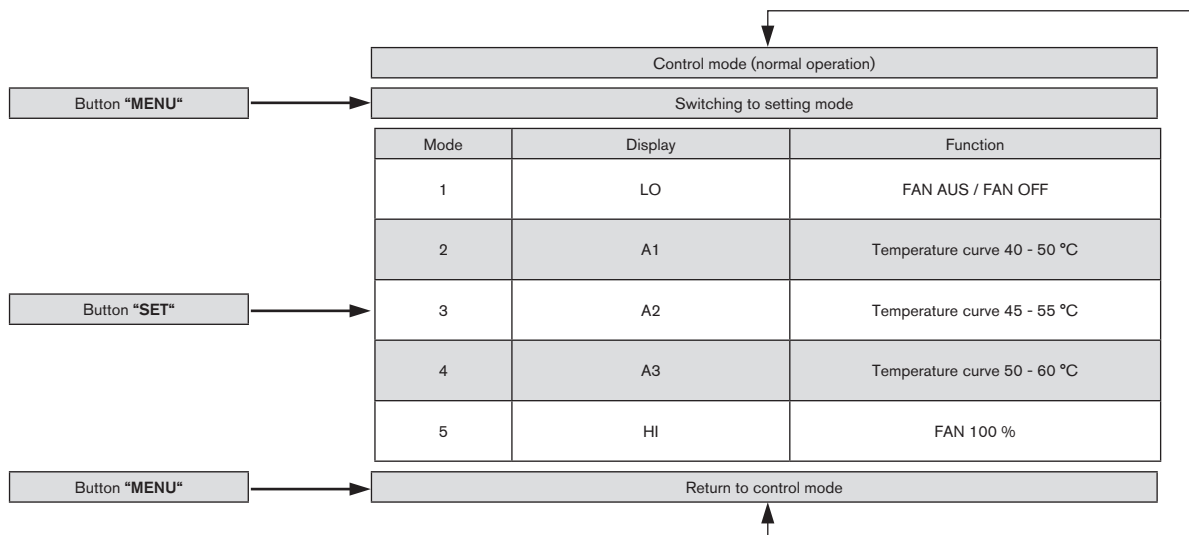
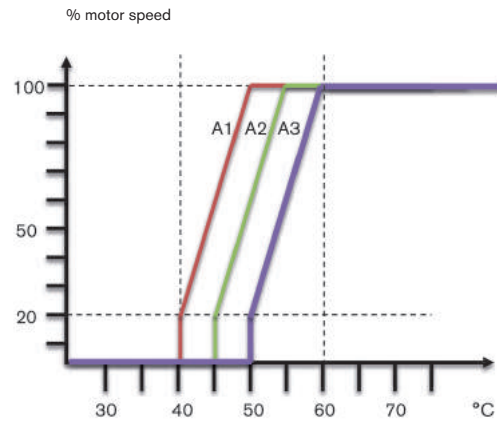
The OAC eco series is based on the previous standard, reduces noise which is generated and the energy consumption without accepting any loss in performance.

Type code

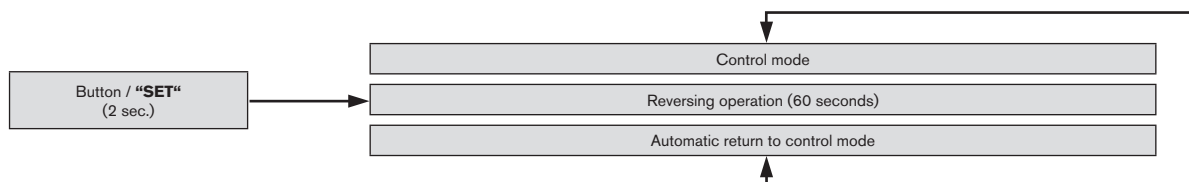


Operation

The control module TSFC is part of the cooler series eco controlling the speed of the motor. For that purpose the temperature value of the sensor is immediately assigned to the motor speed. For various loads three temperature curves defined by the manufacturer are available (mode 2, 3, 4). In addition the fan can be permanently switched on or off, mode 1 and 5.



The TSFC is operated via three buttons. The device is switched on or off via "ON/OFF", while it is started as a standard in the control mode (mode 2) which is set by the manufacturer. Via „MENU“ you can switch between control mode and setting mode (mode 1, 2, 3, 4, 5). With the control mode the current temperature of the sensor is displayed, with the setting mode the operating mode selected is displayed. The button "SET" serves for changing the parameters 1 - 5.



Pressing the button SET may call the cleaning operation in addition. Here the fan rotates with full speed in opposite direction during 60 seconds. In the meantime the display counts down the remaining time in seconds. On completion the device restarts in the control mode. The cleaning operation can be interrupted by pressing the button "MENU" at any time.

Oil/air coolers type OAC

Cooling systems

Diagrammes of performance and pressure loss

Performance diagramme

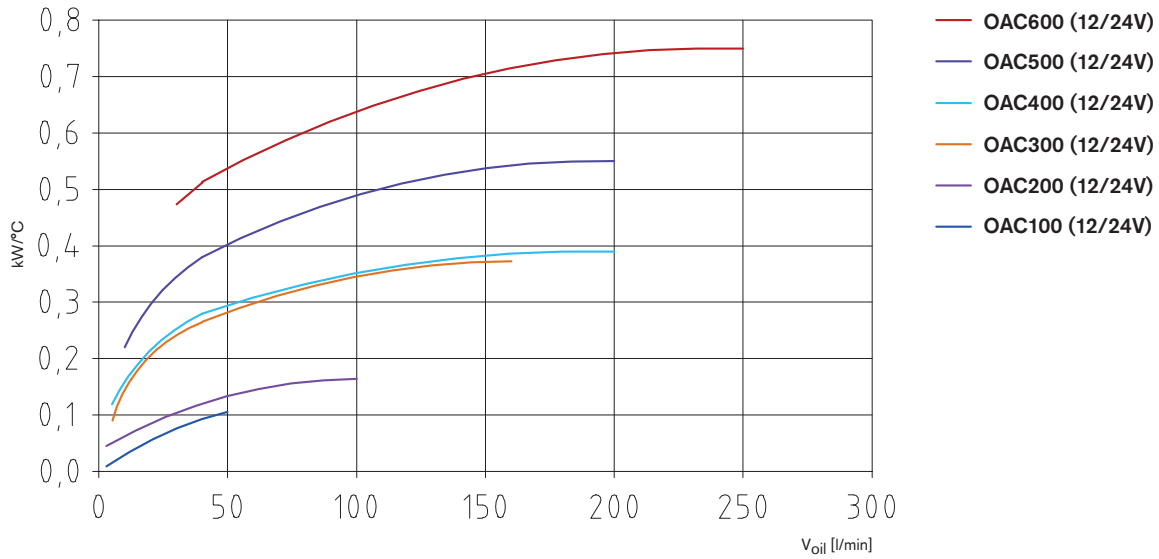
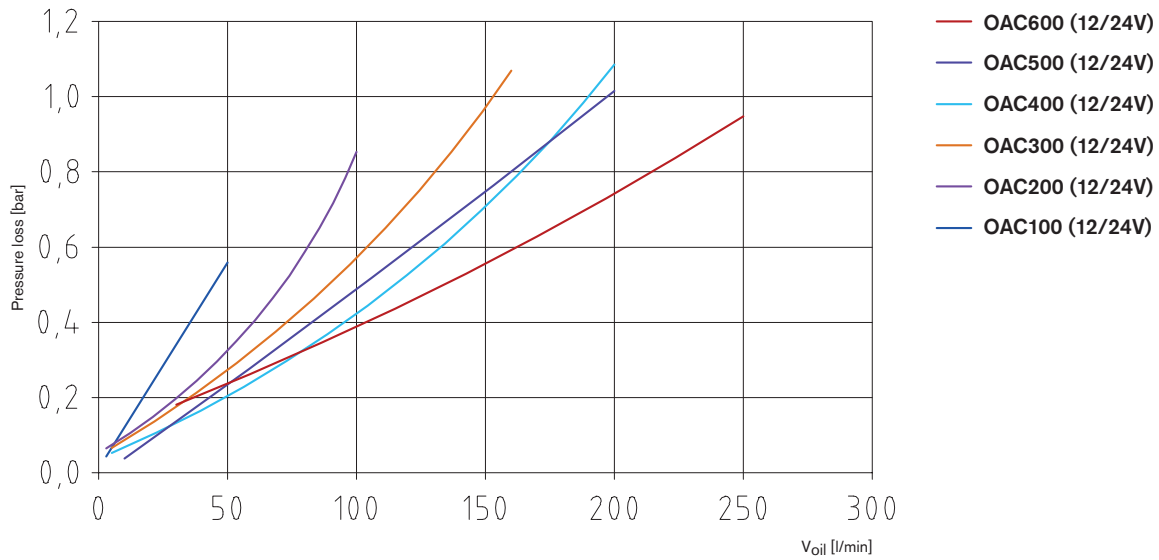


Diagramme of pressure loss



Conversion factor of pressure loss									
cSt	10	15	20	30	40	50	60	80	100
Factor	0.5	0.65	0.75	1	1.2	1.4	1.6	2.1	2.8

Performance diagramme

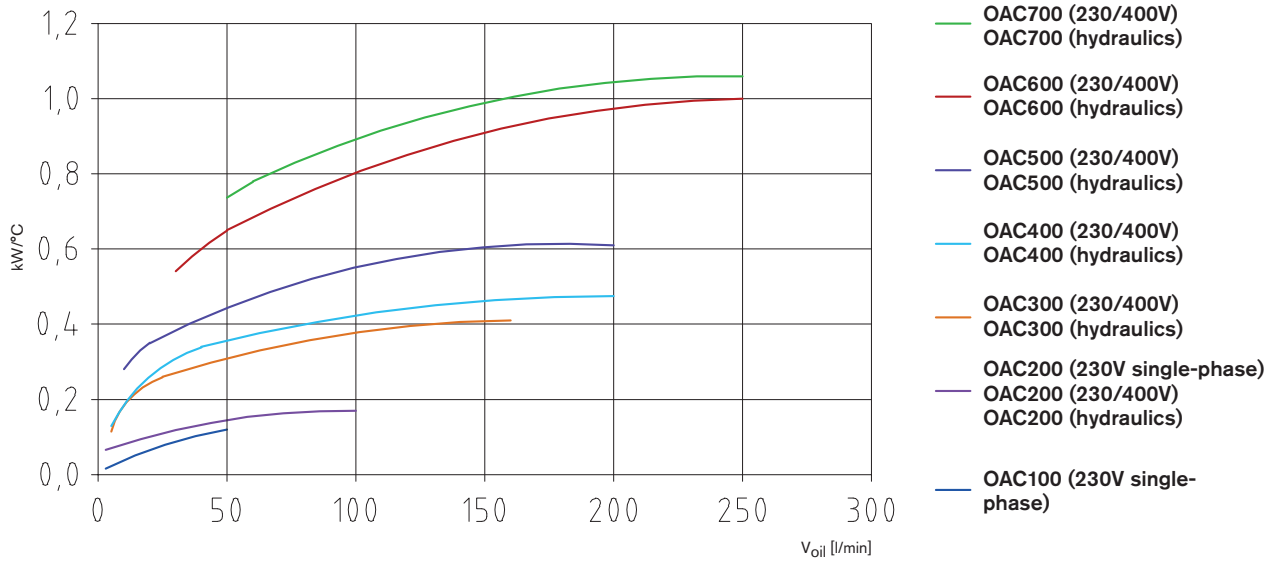
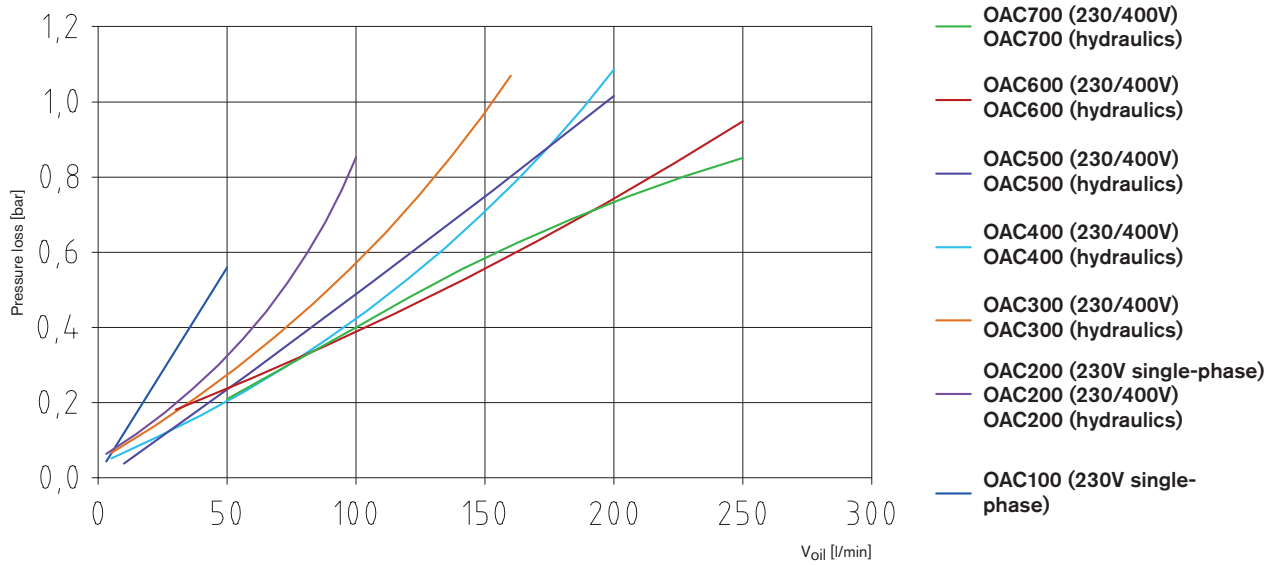


Diagramme of pressure loss



Conversion factor of pressure loss									
cSt	10	15	20	30	40	50	60	80	100
Factor	0.5	0.65	0.75	1	1.2	1.4	1.6	2.1	2.8

Oil/air coolers type OAC

Cooling systems

Diagrammes of performance and pressure loss

Performance diagramme

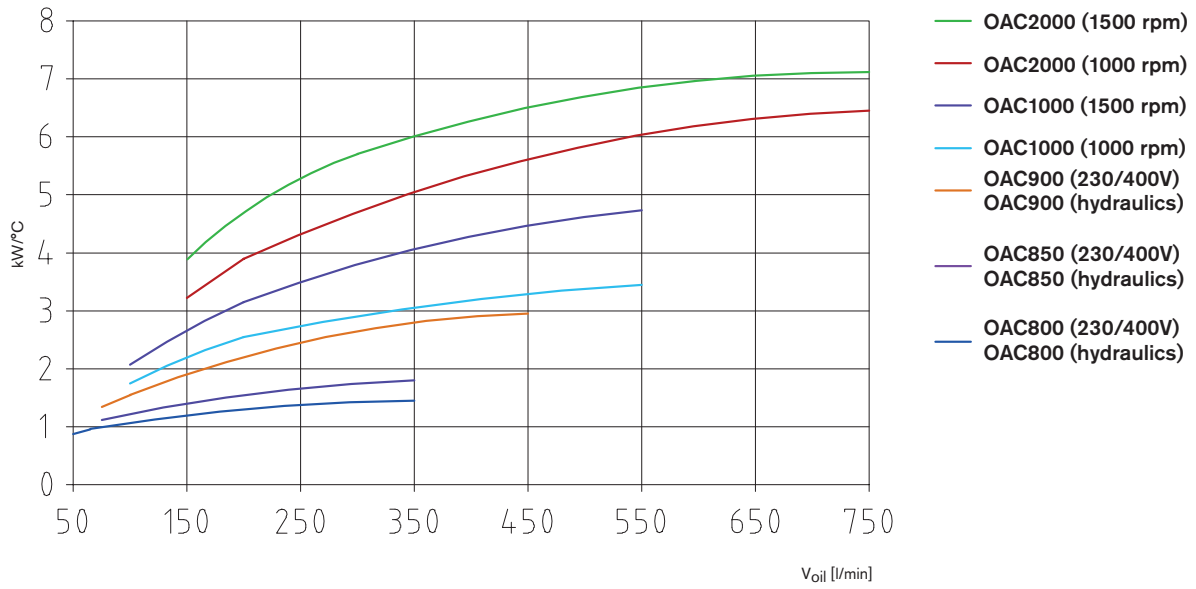
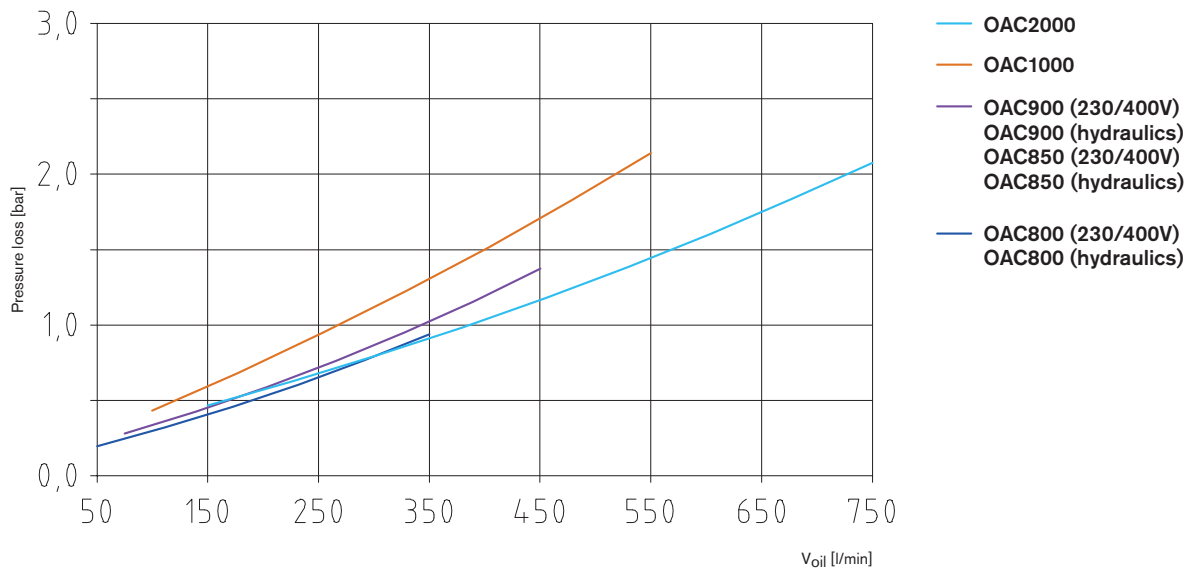


Diagramme of pressure loss

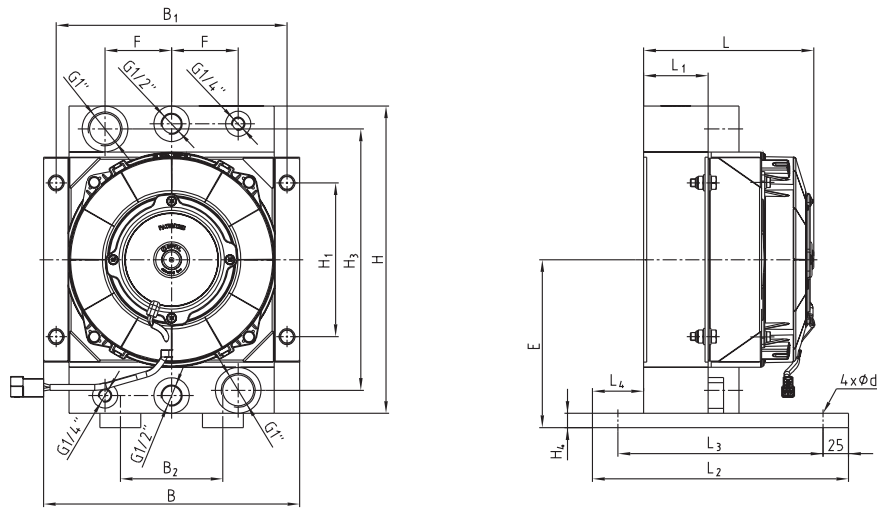


Conversion factor of pressure loss									
cSt	10	15	20	30	40	50	60	80	100
Factor	0.5	0.65	0.75	1	1.2	1.4	1.6	2.1	2.8

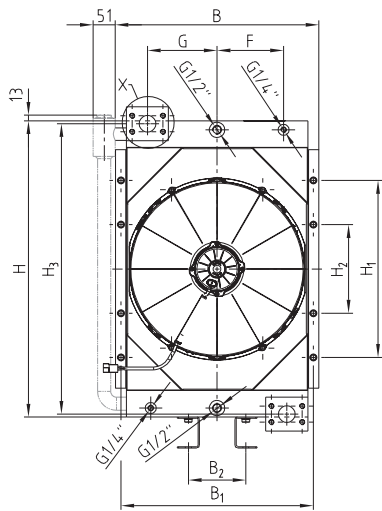
Oil/air coolers type OAC

Cooling systems

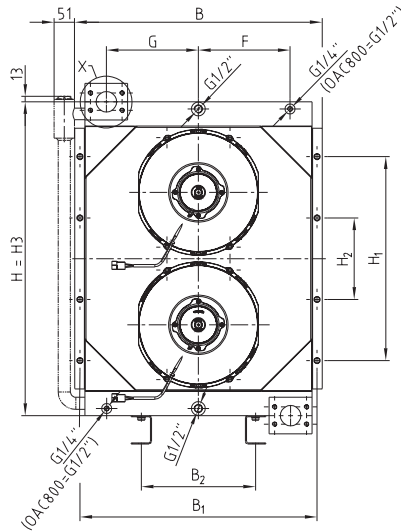
Dimensions OAC100 - 600 (12/24V)



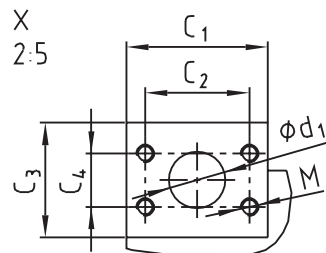
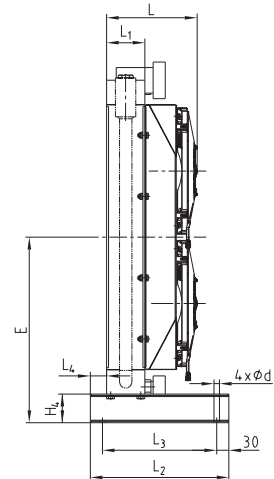
OAC100 - OAC400 12/24V



OAC500 12/24V



OAC600 12/24V

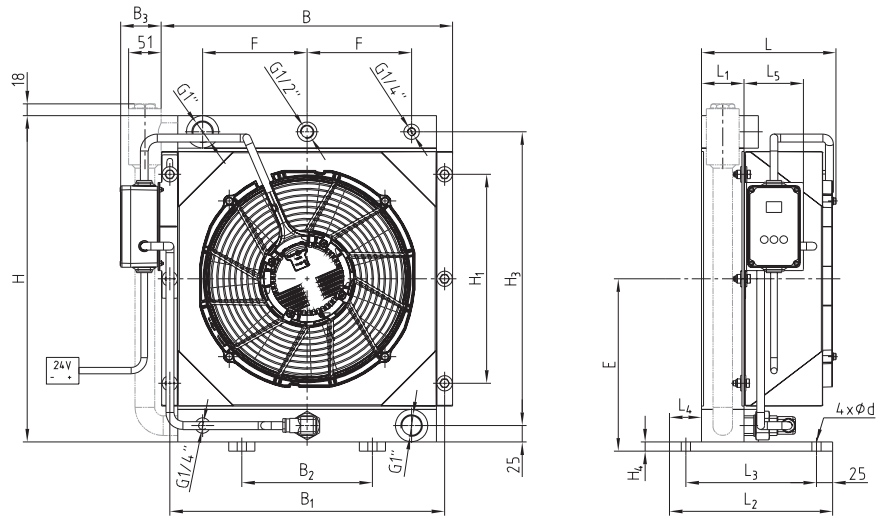


Oil/air cooler type OAC 12/24V																										
Cooler type	Dimensions [mm]																									
	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	H	H ₁	H ₂	H ₃	H ₄	H ₅	d	d ₁	C ₁	C ₂	C ₃	C ₄	SAE flange	M	F	G	E	
OAC100-01	167	65	250	200	50	250	225	100	300	150	-	255	14	-	14	-	-	-	-	-	-	-	-	65	-	164
OAC100-02	167	65	250	200	50	350	325	174	410	240	-	360	14	-	14	-	-	-	-	-	-	-	-	115	-	219
OAC200-01	230	65	250	200	49	446	421	200	500	320	-	450	14	-	14	-	-	-	-	-	-	-	-	160	-	264
OAC200-02	260	95	280	230	55.5	446	421	200	500	320	-	450	14	-	14	-	-	-	-	-	-	-	-	160	-	264
OAC300-01	259	95	340	280	40	460	435	130	670	400	200	657	70	-	13.5	38	95	69.9	77	35.7	1 1/2"	M12	150	157.5	405	
OAC300-02	222	95	340	280	40	607	582	280	770	500	200	770	70	-	13.5	51	105	77.8	90	42.9	2"	M12	225	226	-	

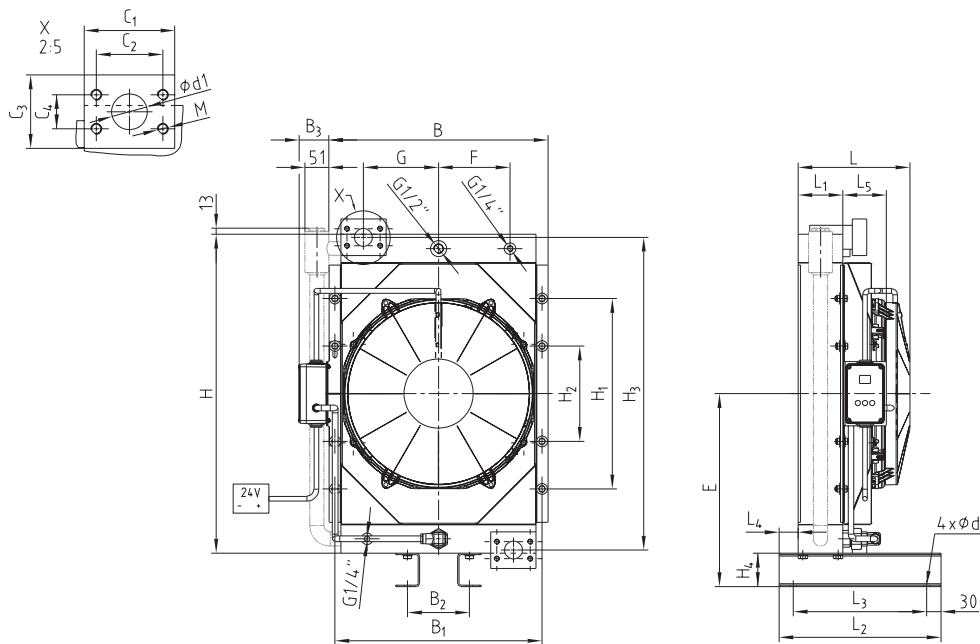
Oil/air cooler type OAC eco

Cooling systems

Dimensions OAC eco 300 - 600 (24V)



OAC300 - OAC400 eco



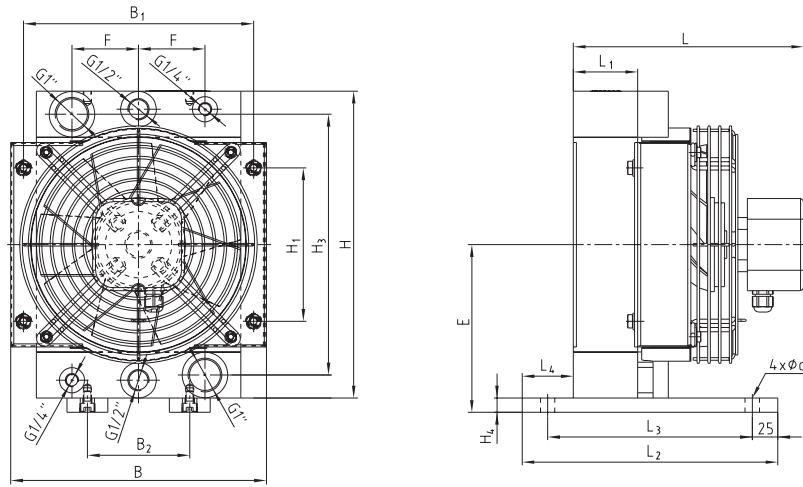
OAC500 - OAC600 eco

Oil/air cooler type OAC eco																											
Cooler type	Dimensions [mm]																										
	L	L ₁	L ₂	L ₃	L ₄	L ₅	B	B ₁	B ₂	B ₃	H	H ₁	H ₂	H ₃	H ₄	d	d ₁	C ₁	C ₂	C ₃	C ₄	SAE flange	M	F	G	E	
OAC300 eco-02	201	65	250	200	49	90	446	421	200	63	500	320	-	450	14	14	-	-	-	-	-	-	-	-	160	-	264
OAC400 eco-02	231	95	280	230	55.5	90	446	421	200	63	500	320	-	450	14	14	-	-	-	-	-	-	-	-	160	-	264
OAC500 eco-02	234.7	94	340	280	40	90	460	435	130	63	670	400	200	657	70	13.5	38	95	69.9	77	35.7	1 1/2"	M12	150	157	405	
OAC600 eco-02	294.7	94	340	280	40	90	607	582	280	63	770	500	200	770	70	13.5	51	105	77.8	90	42.9	2"	M12	225	226	455	

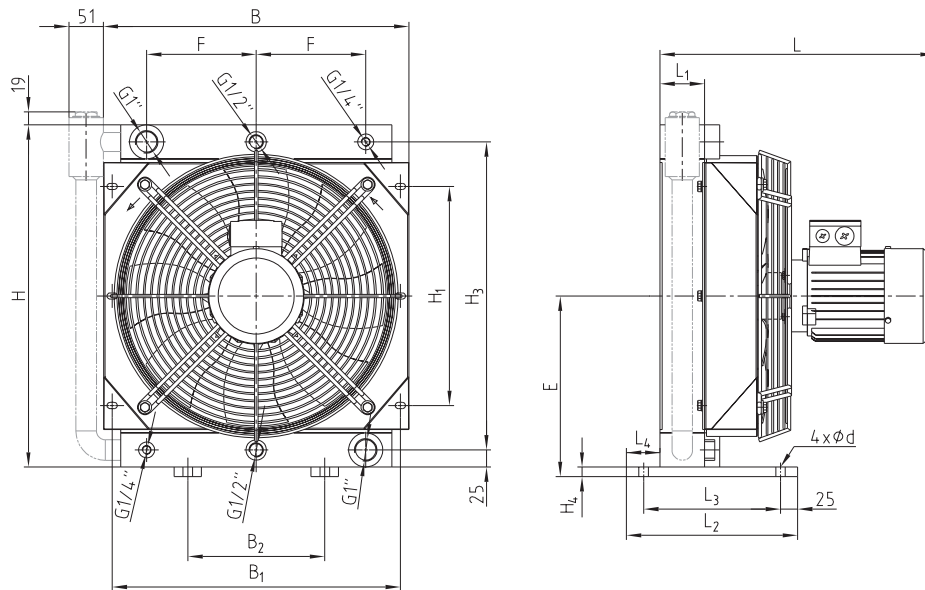
Oil/air coolers type OAC

Cooling systems

Dimensions OAC100 - 400 (230/400V)



OAC100 - OAC200 230/400V (single-phase)

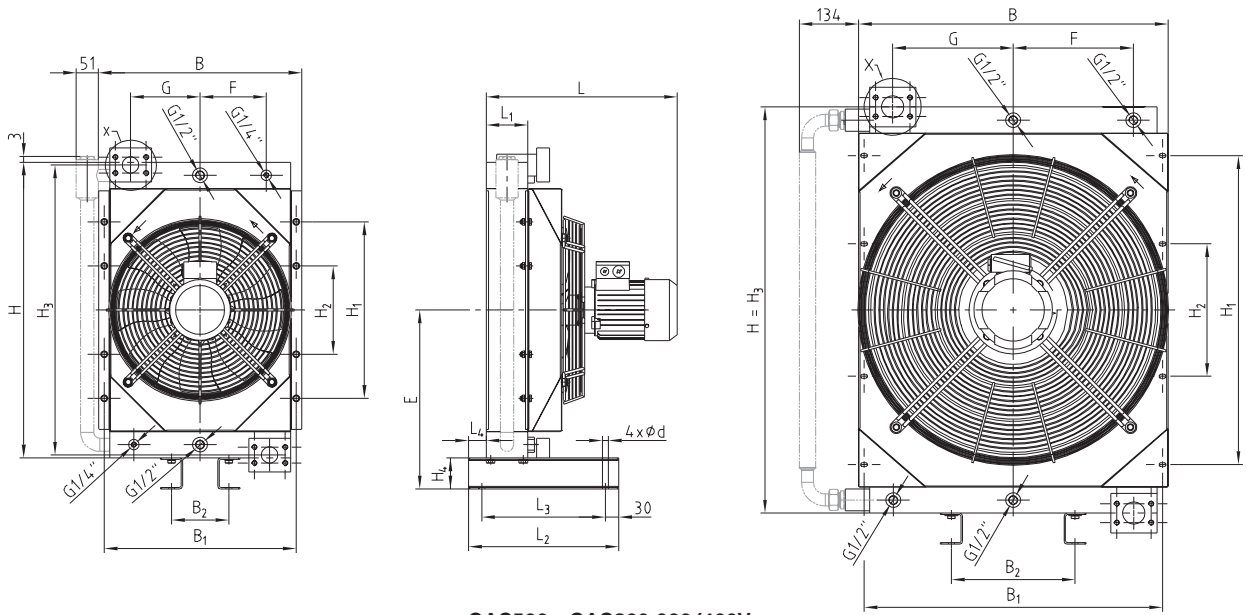


OAC200 - OAC400 230/400V

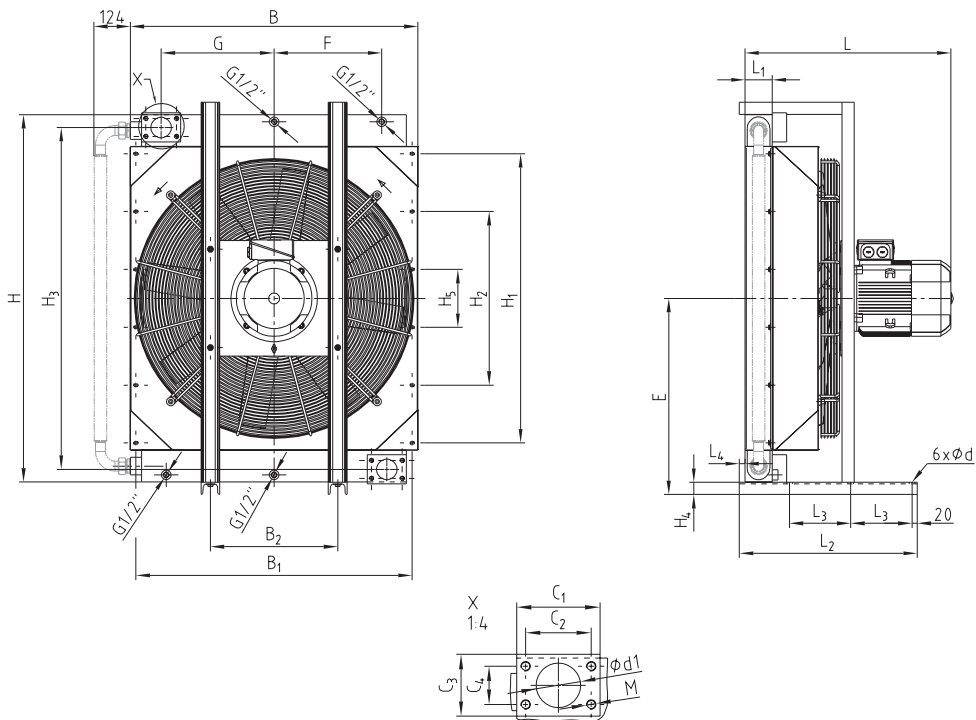
Oil/air cooler type OAC 230/400V																									
Cooler type	Dimensions [mm]																				M	F	G	E	
	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	H	H ₁	H ₂	H ₃	H ₄	H ₅	d	d ₁	C ₁	C ₂	C ₃	C ₄					
OAC100-03 C	225	63	250	200	50	250	225	100	300	150	-	255	14	-	14	-	-	-	-	-	-	-	65	-	164
OAC200-03 C	273	63	250	200	50	350	325	174	410	240	-	360	14	-	14	-	-	-	-	-	-	-	115	-	219
OAC200-03	334	65	250	200	50	350	325	174	410	240	-	360	14	-	14	-	-	-	-	-	-	-	115	-	219
OAC300-03	404	65	250	200	49	446	421	200	500	320	-	450	14	-	14	-	-	-	-	-	-	-	160	-	264
OAC400-03	434	95	280	230	55.5	446	421	200	500	320	-	450	14	-	14	-	-	-	-	-	-	-	160	-	264

Oil/air coolers type OAC Cooling systems

Dimensions OAC500 - 2000 (230/400/690V)



OAC500 - OAC800 230/400V



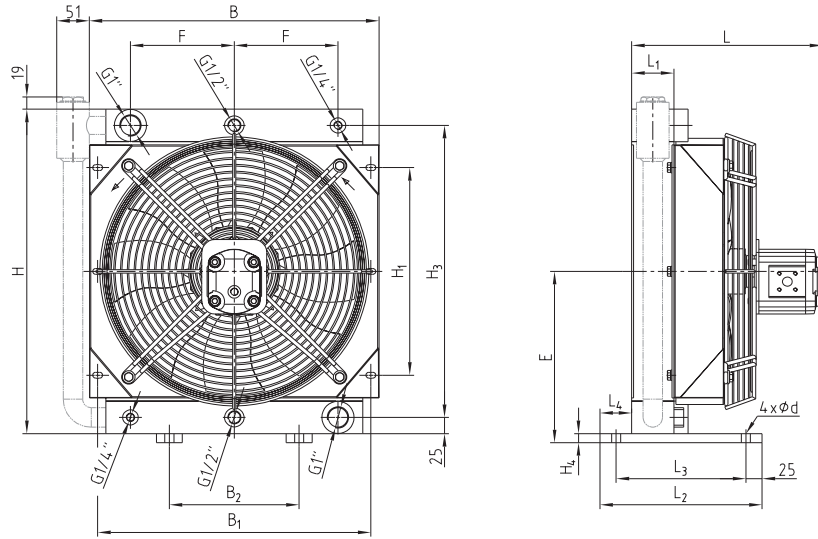
OAC850 - OAC2000 230/400V (400/690V)

Oil/air cooler type OAC 230/400V																									
Cooler type	Dimensions [mm]																								
	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	H	H ₁	H ₂	H ₃	H ₄	H ₅	d	d ₁	C ₁	C ₂	C ₃	C ₄	SAE flange	M	F	G	E
OAC500-03	431	95	340	280	40	460	435	130	670	400	200	657	70	-	13.5	38	95	69.9	77	35.7	1 1/2"	M12	150	157.5	405
OAC600-03	532	95	340	280	40	607	582	280	770	500	200	770	70	-	13.5	51	105	77.8	90	42.9	2"	M12	225	226	455
OAC700-03	542	95	340	280	40	608	582	280	920	700	300	920	70	-	13.5	51	105	77.8	90	42.9	2"	M12	225	226	530
OAC800-03	665	140	450	390	40	701	676	280	920	700	300	920	70	-	13.5	51	105	77.8	90	42.9	2"	M12	272	273	530
OAC850-03	667	95	500	180	-	870	835	350	960	690	230	910	42	-	14	51	105	77.8	90	42.9	2"	M12	350	340	523
OAC900-03	670	95	590	210	-	995	955	440	1270	1000	600	1182	42	200	14	73	135	106.5	100	62	3"	M16	372.5	390	678
OAC1000-03-06	690	113	615	210	-	995	955	440	1270	1000	600	1182	42	200	14	73	135	106.5	100	62	3"	M16	372.5	390	678
OAC1000-03-04	729	113	615	210	-	995	955	440	1270	1000	600	1182	42	200	14	73	135	106.5	100	62	3"	M16	372.5	390	678
OAC2000-03-06	900	140	750	210	-	1286	1246	525	1420	1000	600	1332	45	200	14	73	135	106.5	100	62	3"	M16	532	532	756
OAC2000-03-04	980	140	750	210	-	1286	1246	525	1420	1000	600	1332	45	200	14	73	135	106.5	100	62	3"	M16	532	532	756

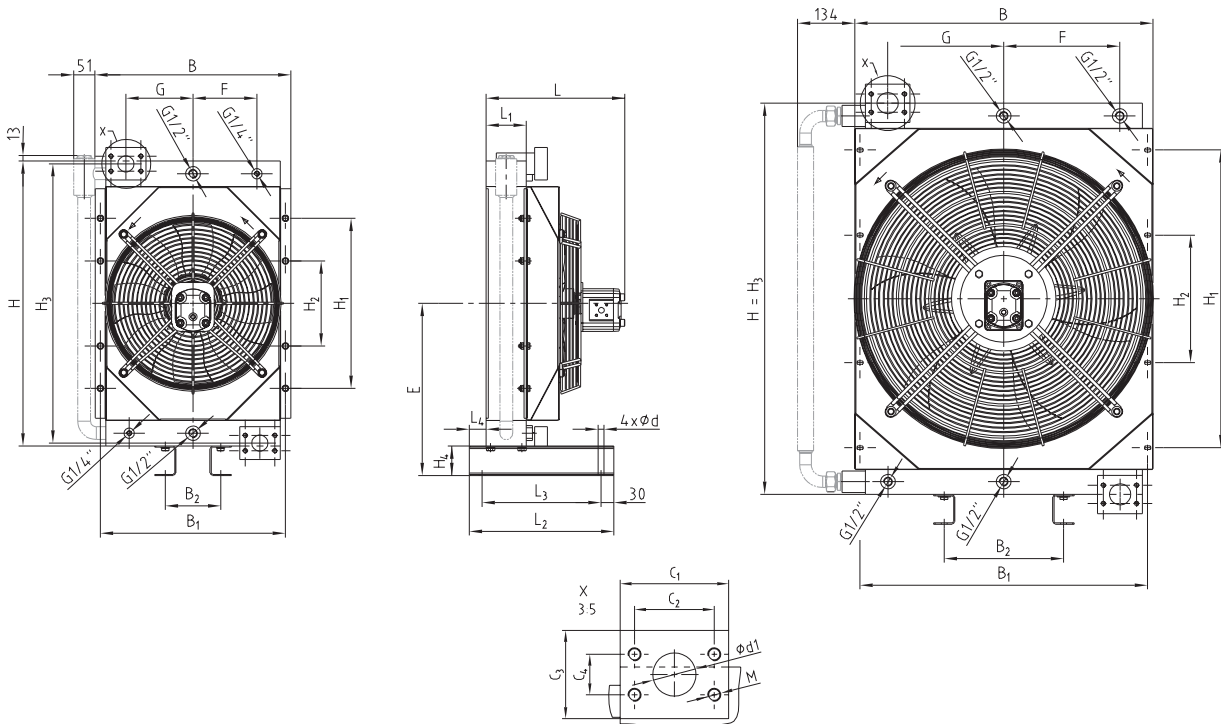
Oil/air coolers type OAC

Cooling systems

Dimensions OAC200 - 800 (hydraulic)



OAC200 - OAC400 hydraulic



OAC500 - OAC700 hydraulic

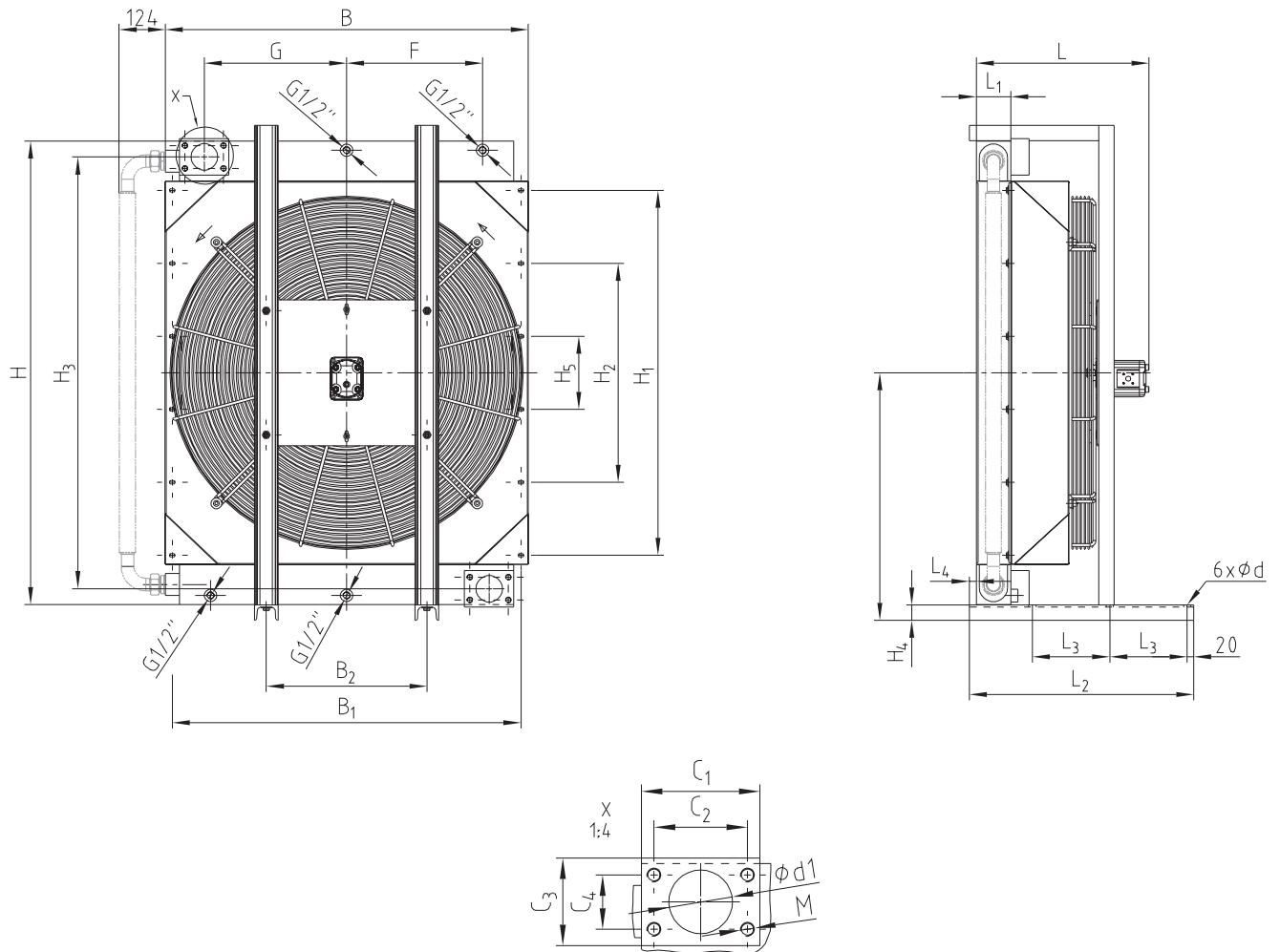
OAC800 hydraulic

Oil/air cooler type OAC hydraulic																										
Cooler type	Dimensions [mm]																									
	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	H	H ₁	H ₂	H ₃	H ₄	H ₅	d	d ₁	C ₁	C ₂	C ₃	C ₄	SAE flange	M	F	G	E	
OAC200-04	245	65	250	200	50	350	325	174	410	240	-	360	14	-	14	-	-	-	-	-	-	-	-	115	-	219
OAC300-04	295	65	250	200	49	446	421	200	500	320	-	450	14	-	14	-	-	-	-	-	-	-	-	160	-	264
OAC400-04	325	95	280	230	55.5	446	421	200	500	320	-	450	14	-	14	-	-	-	-	-	-	-	-	160	-	264
OAC500-04	323	95	340	280	40	460	435	130	670	400	200	657	70	-	13.5	38	95	69.9	77	35.7	1 1/2"	M12	150	157.5	405	
OAC600-04	400	95	340	280	40	607	582	280	770	500	200	770	70	-	13.5	51	105	77.8	90	42.9	-	M12	225	226	455	
OAC700-04	411	95	340	280	40	608	582	280	920	700	300	920	70	-	13.5	51	105	77.8	90	42.9	-	M12	225	226	530	
OAC800-04	546	140	450	390	40	701	676	280	920	700	300	920	70	-	13.5	51	105	77.8	90	42.9	-	M12	272	273	530	

Oil/air coolers type OAC

Cooling systems

Dimensions OAC850 - 2000 (hydraulic)



OAC850 - OAC2000 hydraulic

Oil/air cooler type OAC hydraulic																										
Cooler type	Dimensions [mm]																									
	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	H	H ₁	H ₂	H ₃	H ₄	H ₅	d	d ₁	C ₁	C ₂	C ₃	C ₄	SAE flange	M	F	G	E	
OAC850-04	475	95	590	210	-	870	835	350	960	690	230	910	42	-	14	51	105	77.8	90	42.9	2"	M12	350	340	523	
OAC900-04	475	95	615	210	19.5	995	955	440	1270	1000	600	1182	42	200	14	73	135	106.5	100	62	2"	M16	372.5	390	678	
OAC1000-04	505	113	615	210	-	995	955	440	1270	1000	600	1182	42	200	14	73	135	106.5	100	62	3"	M16	372.5	390	678	
OAC2000-04	620	140	750	210	-	1286	1246	525	1420	1000	600	1332	45	200	14	73	135	106.5	100	62	3"	M16	532	532	756	

Oil/air coolers / cooling-pumping unit type OPC

Cooling systems

Bypass flow cooling with integrated pump



The OPC oil cooler unit is a system specifically developed for cooling in the bypass flow as an independent unit. The unit consists of a cooler, fan, electric motor, pump and may be supplemented by a filter on request of the customer.

Application:

- Machine tools
- Elevators
- Test benches
- Add-on coolers
- Bypass flow cooling

Applicable for cooling of:

- Hydraulic oil
- Gear oil
- Lubricating oil
- Water-glycol (min. 50 % glycol)

Structure:

- Cooler core (plate and bar) made of aluminium with industrial lamina in black (RAL 9005)
- Fan cover made of steel in black (RAL 9005)
- Fan made of nylon PAG
- Protective grid made of steel in black (RAL 9005)
- Electric motor 230/400V, IP55
- Bellhousing and coupling
- Gear feed pump with pressure relief valve 0 - 15 bar, recommended setting 5 bar, max. media temperature 80 °C (higher temperatures on request)
- Filter with visual maintenance display, as an option

Marine design:

- Cooler core, frame, fan cover with double-component paint
- Electric motor with special painting and protection class IP56

ATEX design:

- Electric motor in ATEX design Ex II 2 G Exell T3
- Special fan

Accessories:

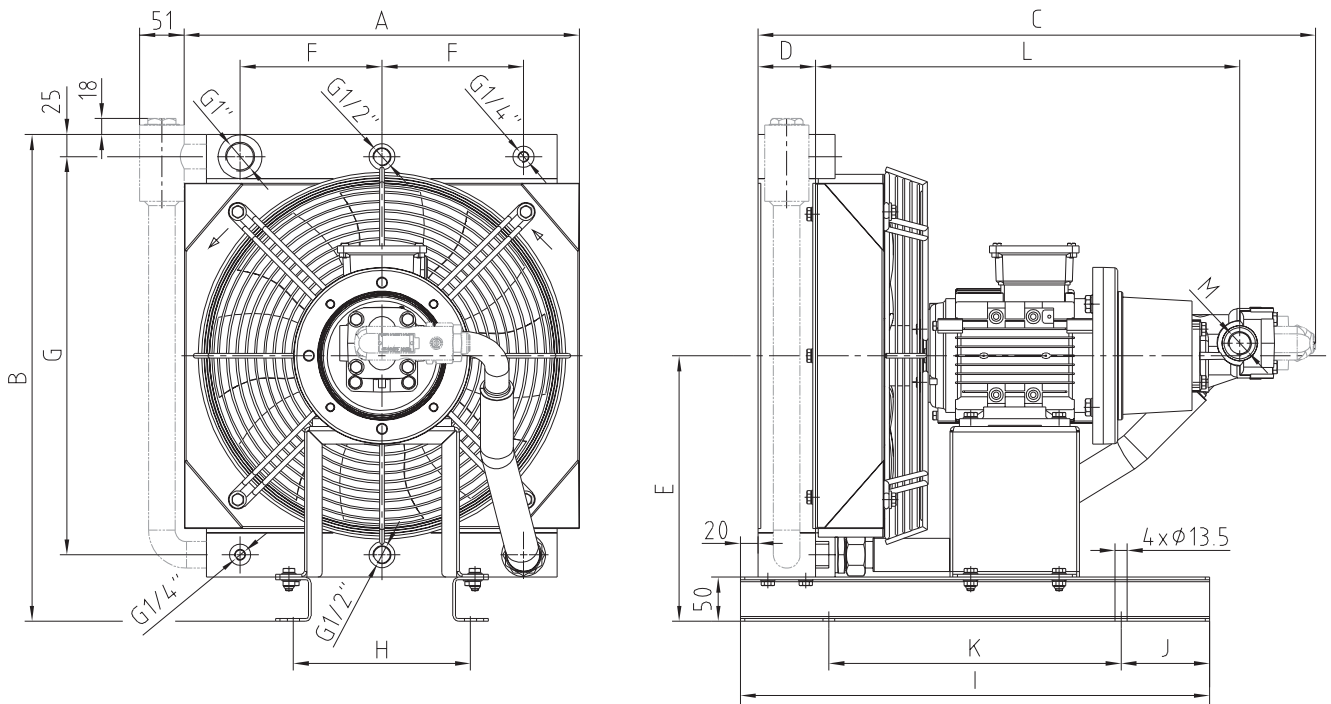
- Thermal bypass valves
- Oil thermostat valve (OTV)
- Protective grid
- Temperature switch (TSC)

The OPC coolers have to be protected from direct solar radiation.

Oil/air coolers / cooling-pumping unit type OPC

Cooling systems

Dimensions OPC200 - 400 (230/400V)



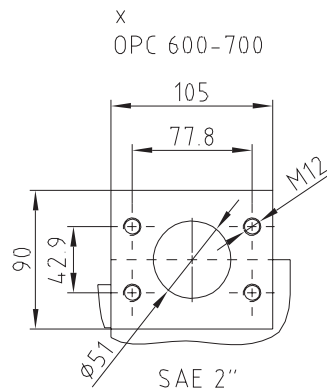
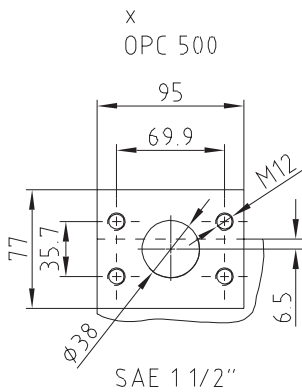
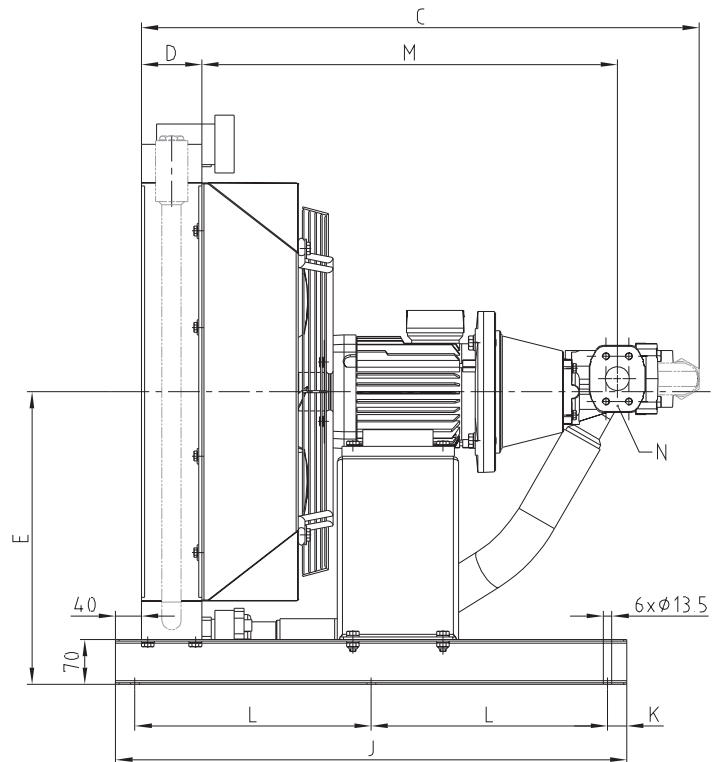
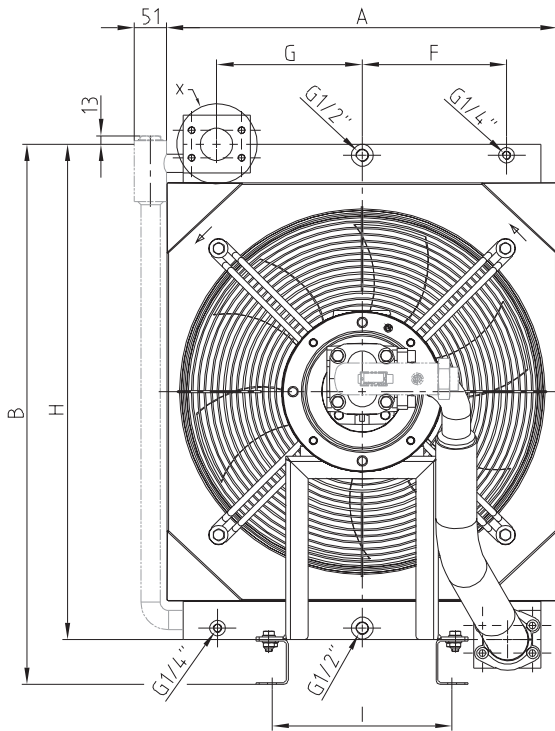
OPC200 - OPC400

Technical data																				
Cooler type	Voltage	Current [A]	Speed [rpm]	l/min	kW/°C	Dimensions [mm]												Weight [kg]		
						A	B	C	D	E	F	G	H	I	J	K	L		M	
OPC200-4D-0.75kW	230/400V 50 Hz	1.8	1400	5.5	0.07															
OPC200-12D-0.75kW				16.7	0.09	350	460	572	65	255	115	360	174	530	100	330	426	G 3/4"	35	
OPC200-16D-0.75kW				21.4	0.10			596									435	G 1"		
OPC300-4D-0.75kW				5.5	0.12															
OPC300-12D-0.75kW				16.7	0.23	446	550	615	65	300	160	450	200	530	100	330	464	G 3/4"	42	
OPC300-16D-0.75kW				21.4	0.25			638									473	G 1"		
OPC400-4D-0.75kW				5.5	0.13															
OPC400-12D-0.75kW				16.7	0.24	446	550	645									465	G 3/4"	46	
OPC400-16D-0.75kW				21.4	0.27			668	95	300	160	450	200	550	75	400		SAE		
OPC400-32D-0.75kW				42.7	0.34			720									474	1 1/2		

Oil/air coolers / cooling-pumping unit type OPC

Cooling systems

Dimensions OPC500 - 600 (230/400V)



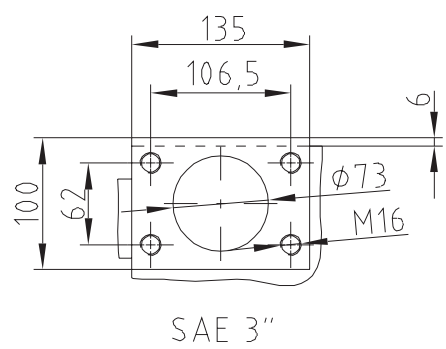
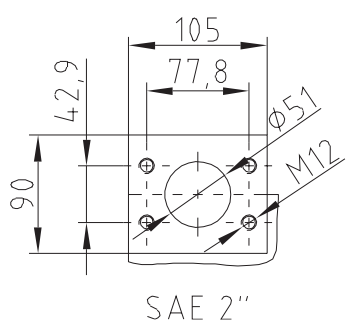
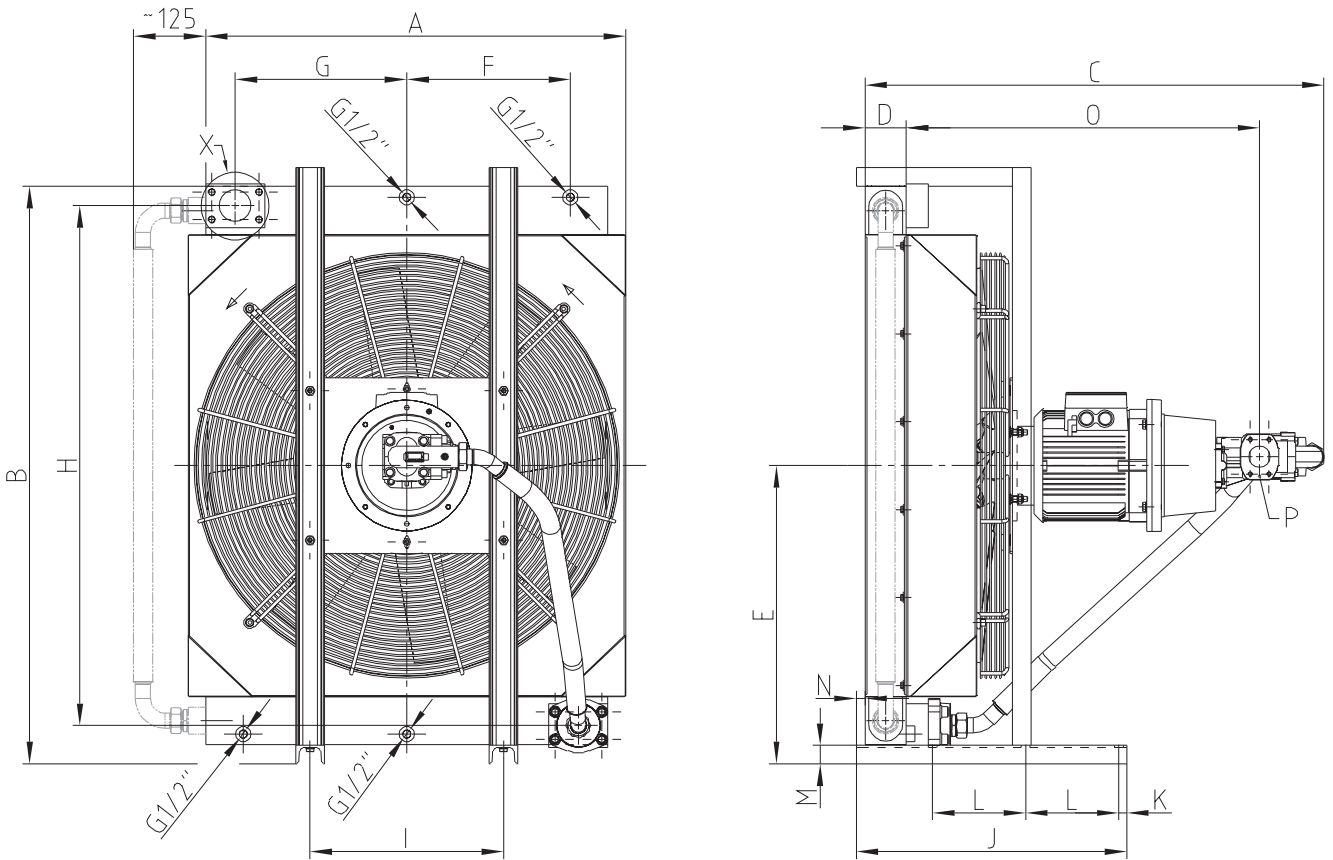
OPC500 - OPC600

Technical data																				
Cooler type	Voltage	Current [A]	Speed [rpm]	l/min	kW/°C	Dimensions [mm]														Weight [kg]
						A	B	C	D	E	F	G	H	I	J	K	L	M	N	
OPC500-16D-2.2kW	230/400V 50 Hz	4.9	1410	21.5	0.35	460	740	740	95	405	150	157.5	657	130	720	30	330.0	547	G 1"	75
OPC500-25D-2.2kW				790	568			SAE 1 1/2"										77		
OPC500-32D-2.2kW				790	568			SAE 1 1/2"										77		
OPC500-40D-2.2kW				53.5	0.45	607	840	819	95	455	225	226.0	770	280	795	30	367.5	626	G 1"	96
OPC600-16D-2.2kW				21.5	0.47			868										647	SAE 1 1/2"	98
OPC600-25D-2.2kW				33.4	0.56			868										647	SAE 1 1/2"	98
OPC600-32D-2.2kW				42.7	0.61			868										647	SAE 1 1/2"	98
OPC600-40D-2.2kW				53.5	0.66	868	647	SAE 1 1/2"	98											

Oil/air coolers / cooling-pumping unit type OPC

Cooling systems

Dimensions OPC800 - 1000 (400/690V)



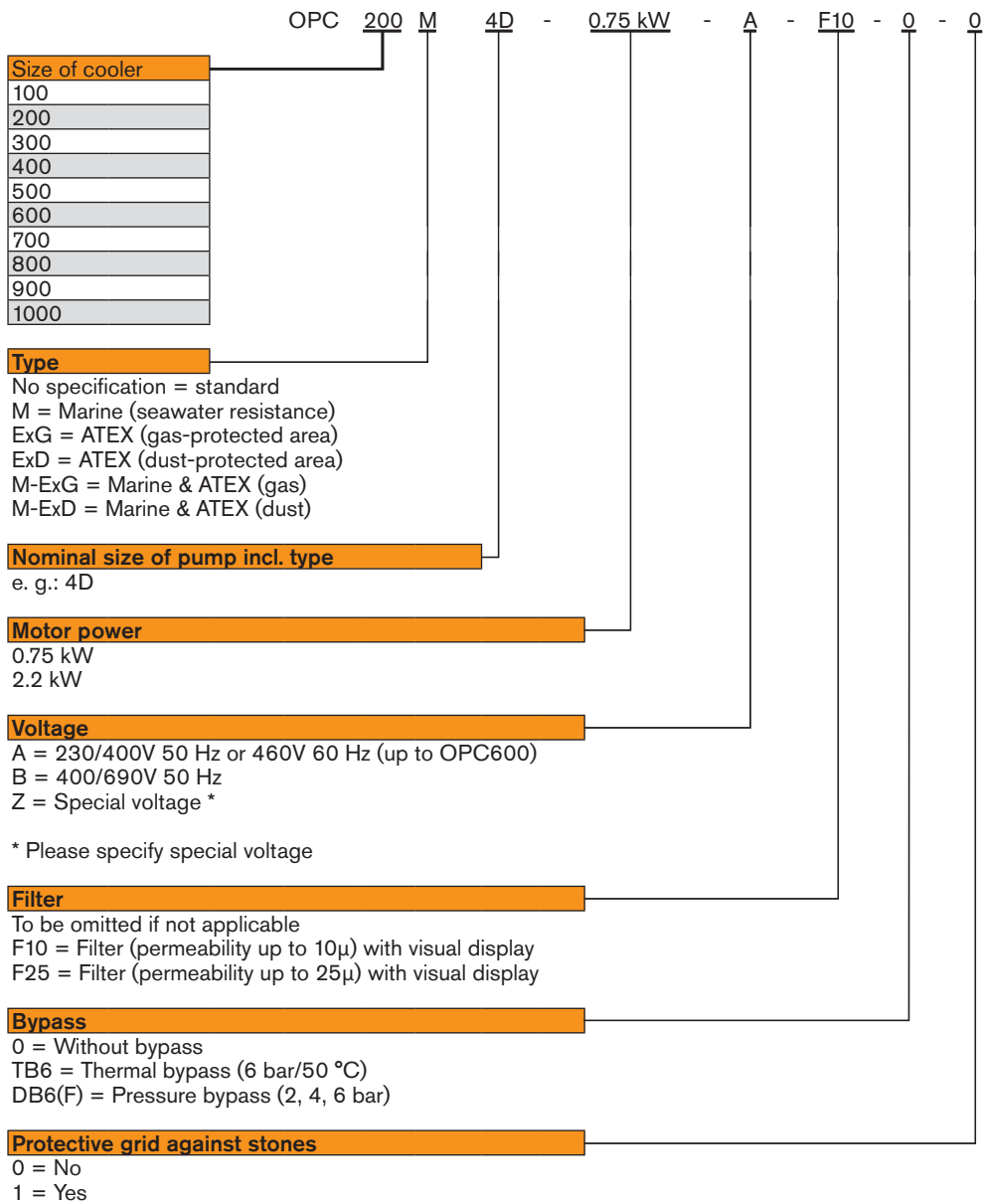
OPC800 - OPC1000 (400/690V)

Technical data																				
Cooler type	Voltage	Current [A]	Speed [rpm]	l/min	kW/°C	Dimensions [mm]														Weight [kg]
						A	B	C	D	E	F	G	H	I	J	K	L	M	N	
OPC800-50D-4kW	400/690V 50 Hz	8.2	1460	69	1.00	701	981	1096	140	521	350	340	920	280	670	20	292	829	38	111.5
OPC800-80D-4kW		8.2	1460	112	1.15	701	981	1130	140	521	350	340	920	280	670	20	292	845	38	113
OPC850-80D-5.5kW		12	970	72	1.12	870	1002	1046	95	523	373	390	910	350	590	20	180	804	38	146
OPC850-125D-5.5kW		12	970	113	1.32	870	1002	1081	95	523	373	390	910	350	590	20	180	824	63.5	160
OPC900-80D-5.5kW		12	970	72	1.34	995	1312	1046	95	678	373	390	1182	440	615	20	210	804	38	189
OPC900-125D-5.5kW		12	970	113	1.71	995	1312	1081	95	678	373	390	1182	440	615	20	210	824	63.5	203
OPC1000-125D-5.5kW		12	970	113	1.88	995	1312	1119	113	678	373	390	1182	440	615	20	210	844	63.5	217
OPC1000-180D-5.5kW		12	970	167	2.33	995	1312	1136	113	678	373	390	1182	440	615	20	210	854	76.2	220

Oil/air coolers / cooling-pumping unit type OPC

Cooling systems

Type code of industrial coolers oil/air



Type of bypass:
 Thermal and/or pressure bypass

Protective grid against stones
 available as accessories
 (incl. filter mat on request)

