

fluid  
technology  
solutions



**UK** Flowtechnik

Specialists in flow metering, pumps, couplings  
and process measurement equipment

ACM

Oil-air cooler for mobile applications

**HBE** hydraulic  
components



# Oil-air cooler for mobile applications



## SERIES ACM

The new ACM oil-air cooler series is an optimised heat exchanger for a wide range of hydraulic applications. The 12/24V DC drive enables the use in mobile hydraulic power units, e.g. in agriculture/forestry, in construction and mining machinery and in the loading and transport sector.

### Product features

- Compact fans with 12/24V DC drive
- Protection class IP68
- Operating pressure: max. 15 bar
- Operating temperature: max. 120°C
- Displacement: 10 - 300 l/min
- Cooling capacity: 3 - 50kW (referring to  $\Delta T=40K$ )

### Benefits

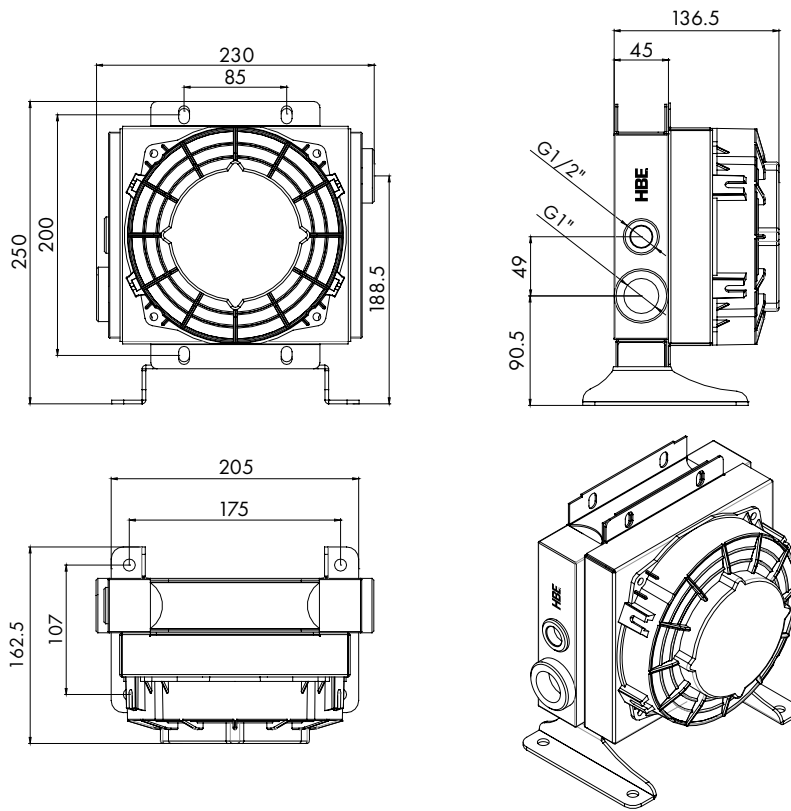
- Different sizes and cooling capacities depending on the application
- Internal bypass valve
- Short delivery times by intelligent warehousing

## Ordering code ACM

<b>ACM - 12 - 12 - 0 - 0</b>	
<p><b>Cooler series</b> ACM = cooler for mobile applications</p>	<p><b>Cooler size</b> 12 13 14 15 16 17 18 19 20</p>
<p><b>Thermostat*</b> 0 = without 1 = 50°C 2 = 60°C 3 = 70°C</p>	<p><b>Air flow direction</b> 0 = suction 1 = blowing</p>
<p>* additional on request</p>	<p><b>Input voltage motor</b> 12 = 12 Volt 24 = 24 Volt</p>

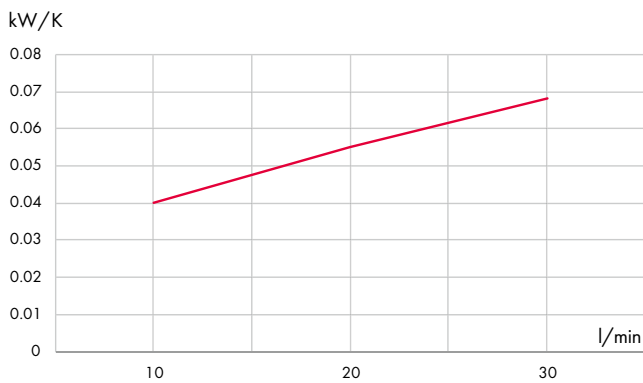
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Last revised: 08/2023

# ACM-12-12/24

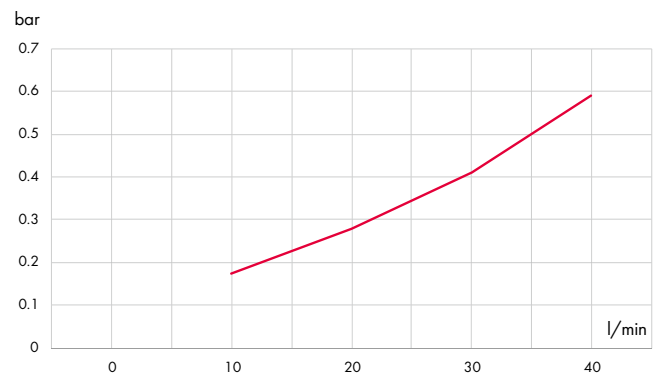


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
10-40	3	12/24 DC	130	560	Ø167	4400	68	0.7	3.7

## Cooling capacity

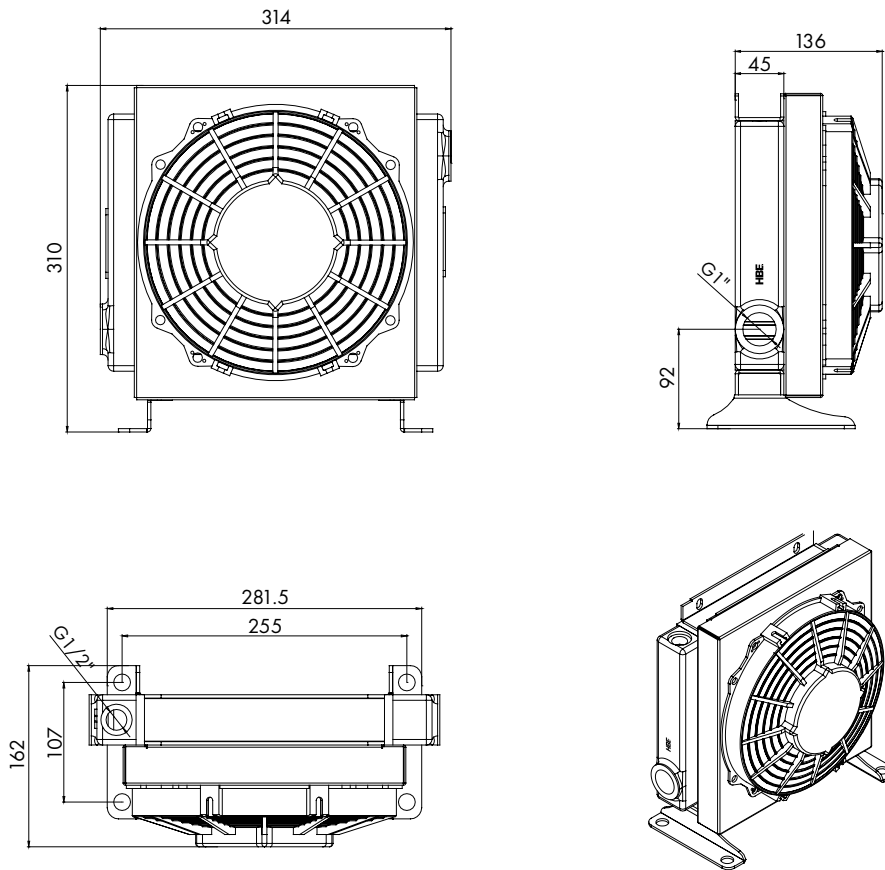


## Pressure drop



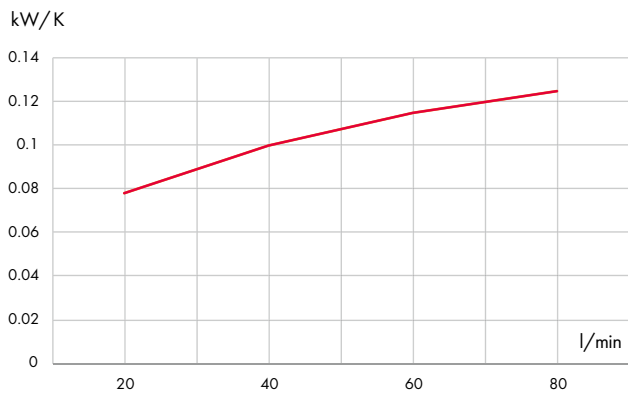
<b>Viscosity [cSt]</b>	10	15	20	30	40	50	60	80	100	200	300
<b>Conversion factor</b>	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3

# ACM-13-12/24

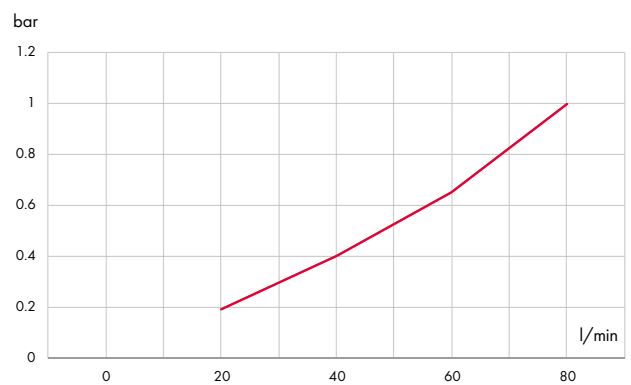


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
20-80	6.5	12/24 DC	130	1060	Ø 225	3400	68	1.4	5.3

## Cooling capacity

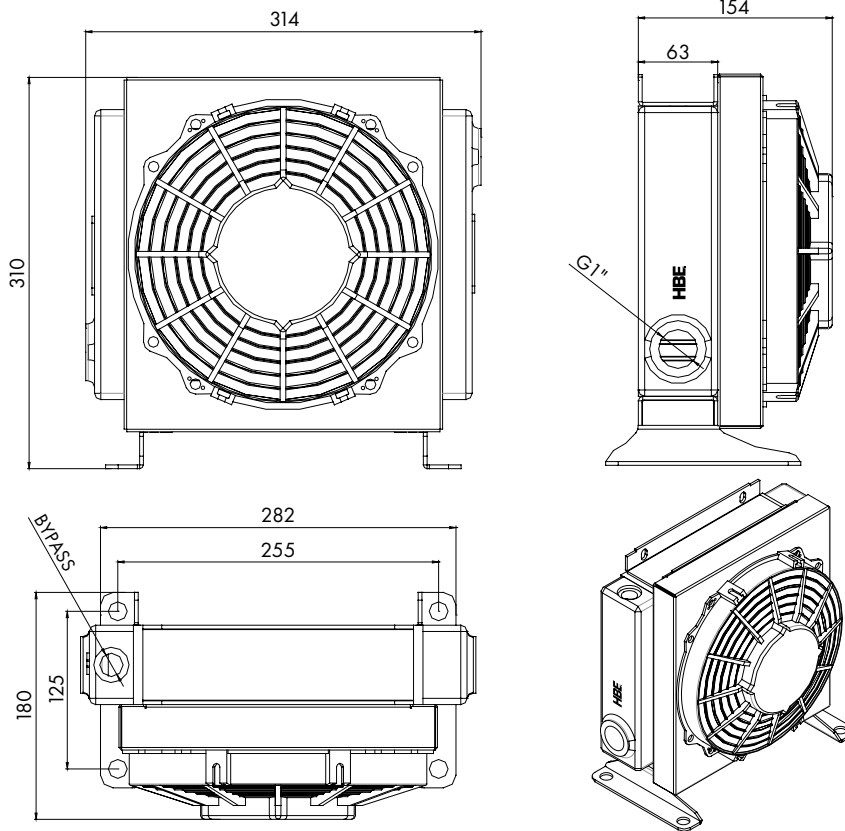


## Pressure drop



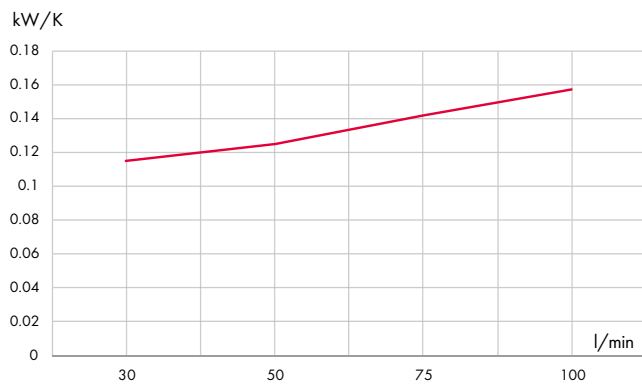
<b>Viscosity [cSt]</b>	10	15	20	30	40	50	60	80	100	200	300
<b>Conversion factor</b>	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3

# ACM-14-12/24

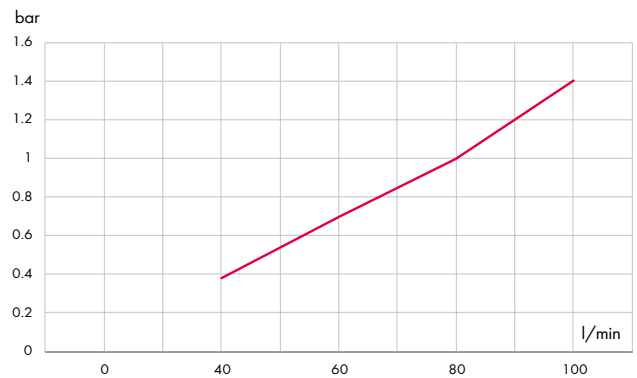


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
40-100	10	12/24 DC	130	1060	Ø 225	3400	68	1.7	6.3

## Cooling capacity

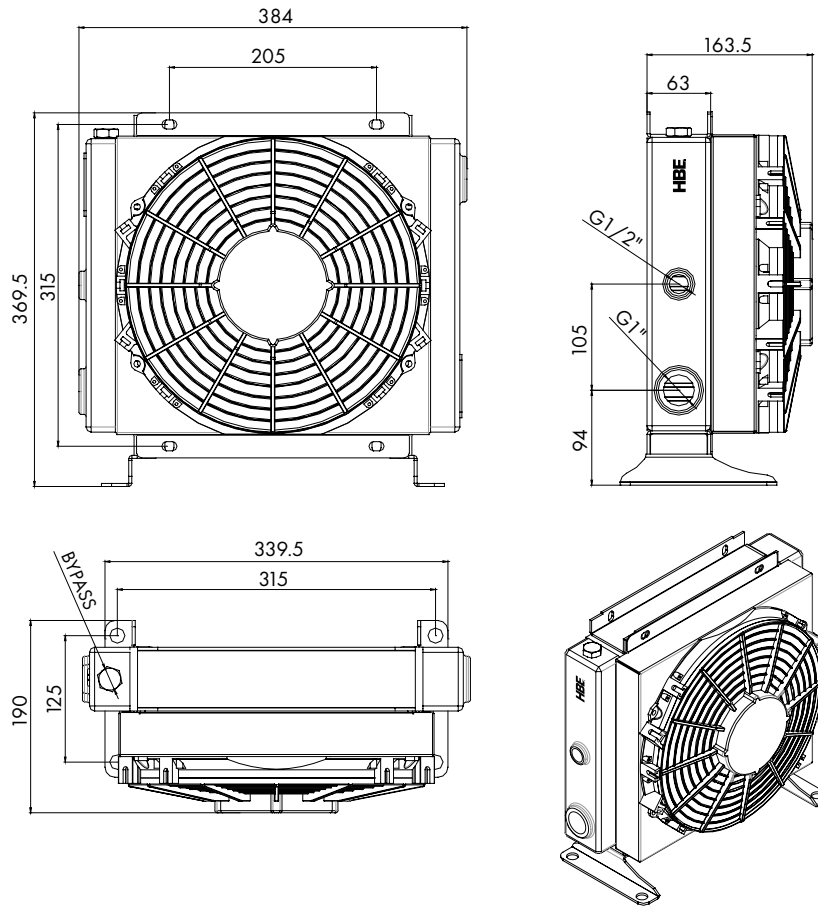


## Pressure drop



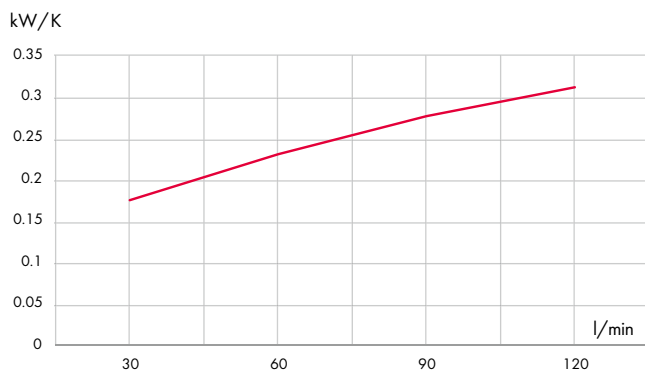
<b>Viscosity [cSt]</b>	10	15	20	30	40	50	60	80	100	200	300
<b>Conversion factor</b>	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3

# ACM-15-12/24

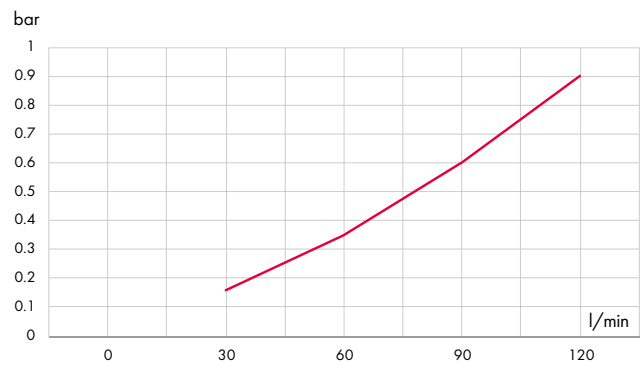


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
60-120	14	12/24 DC	130	1400	Ø 280	2640	68	2.3	8

## Cooling capacity

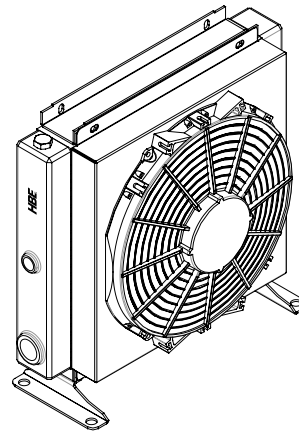
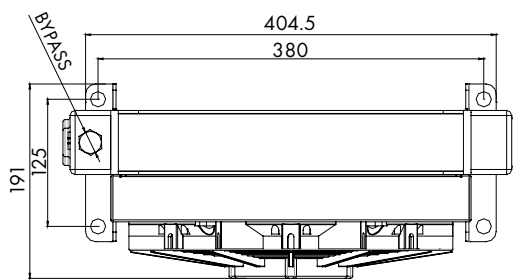
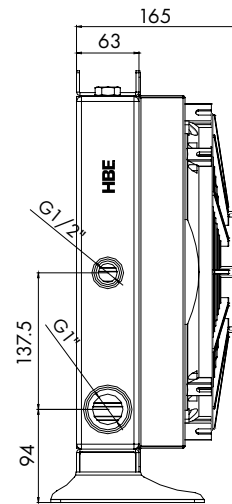
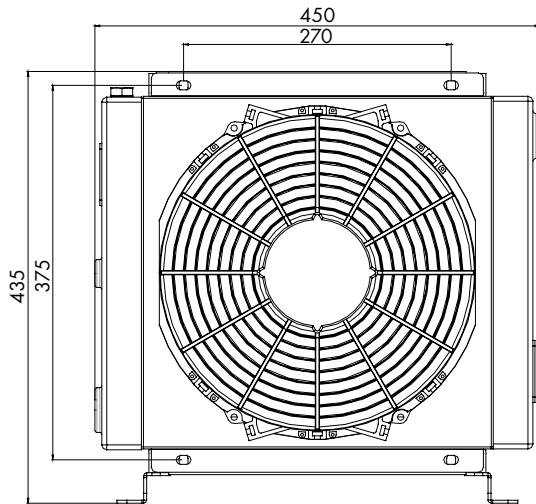


## Pressure drop



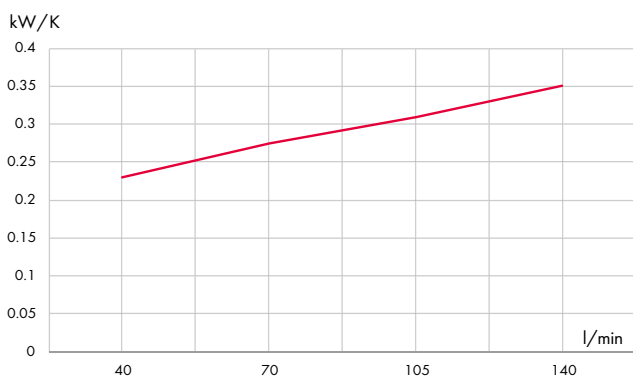
<b>Viscosity [cSt]</b>	10	15	20	30	40	50	60	80	100	200	300
<b>Conversion factor</b>	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3

# ACM-16-12/24

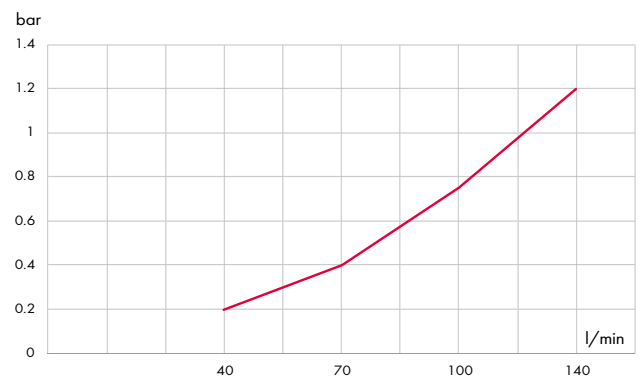


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
80-140	25	12/24 DC	130	1710	Ø 305	2570	68	4	12.5

## Cooling capacity

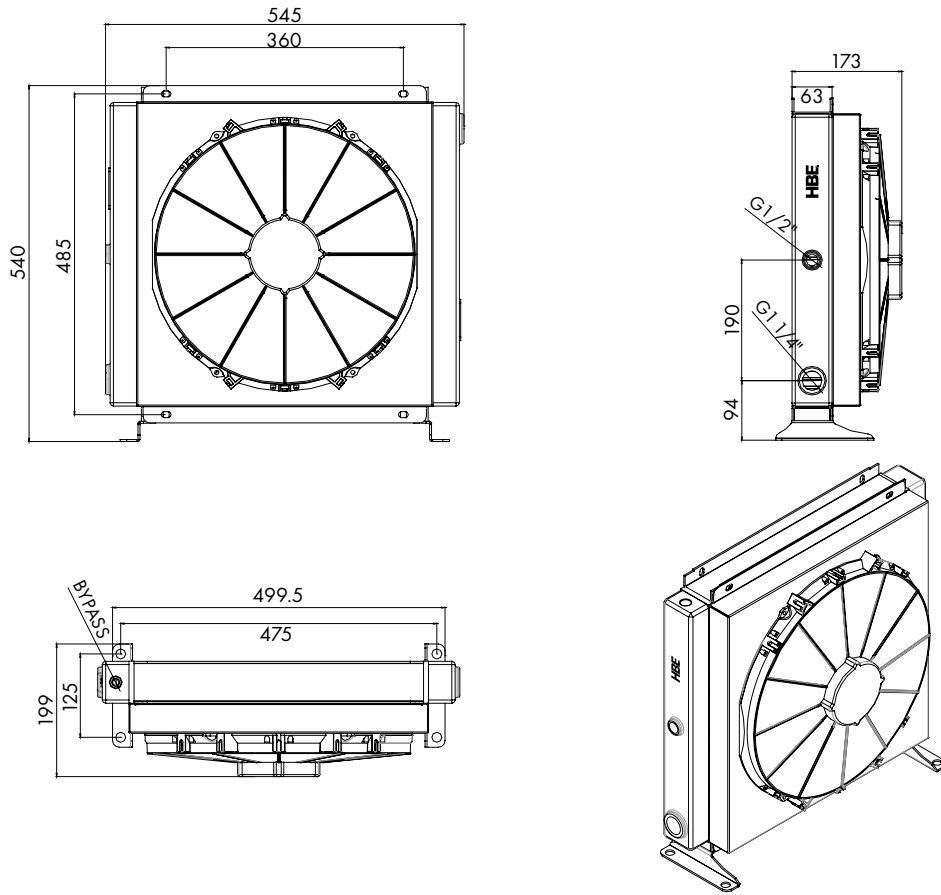


## Pressure drop



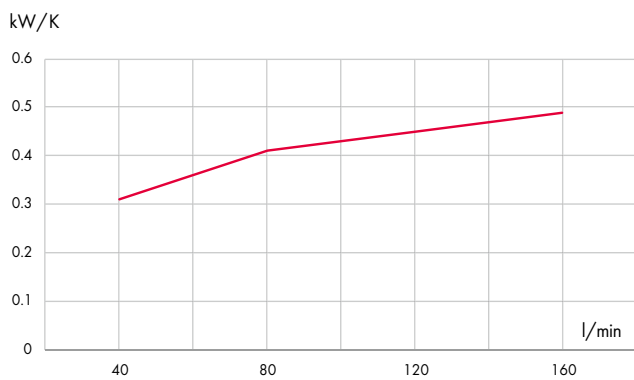
<b>Viscosity [cSt]</b>	10	15	20	30	40	50	60	80	100	200	300
<b>Conversion factor</b>	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3

# ACM-17-12/24

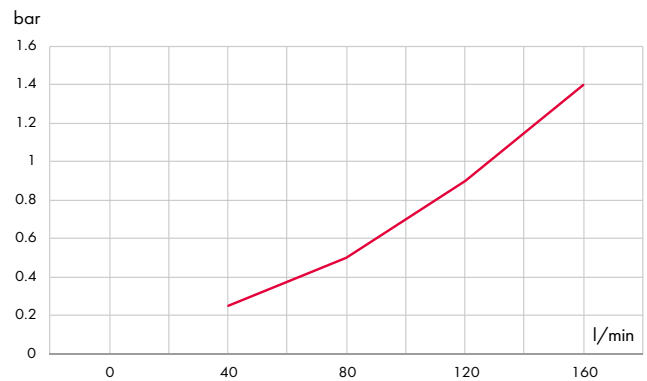


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
100-160	30	12/24 DC	130	2630	Ø 385	2900	68	5.7	18

## Cooling capacity



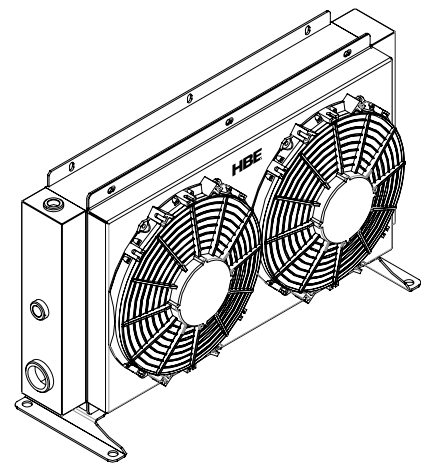
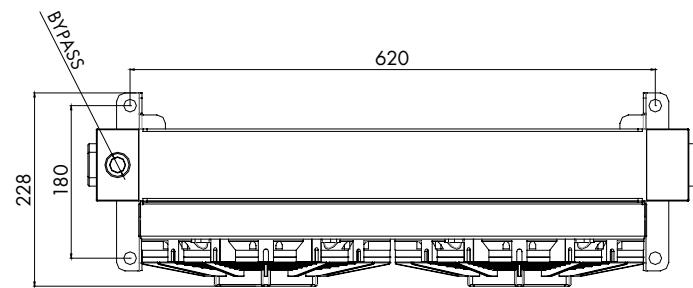
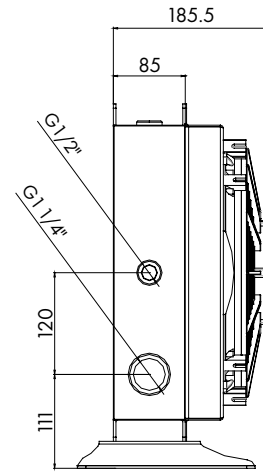
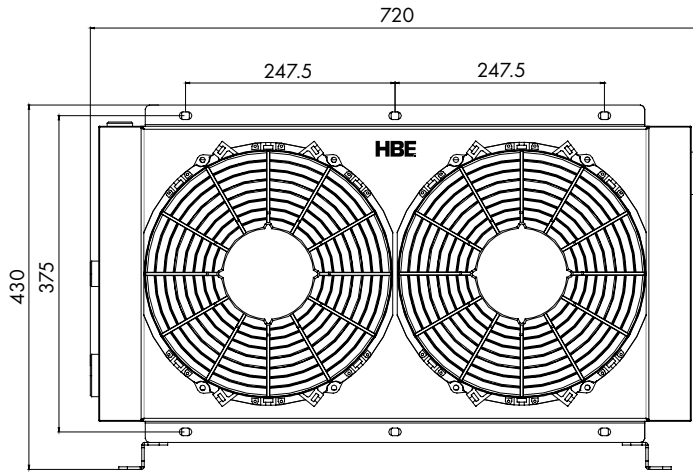
## Pressure drop



Viscosity [cSt]	10	15	20	30	40	50	60	80	100	200	300
Conversion factor	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3

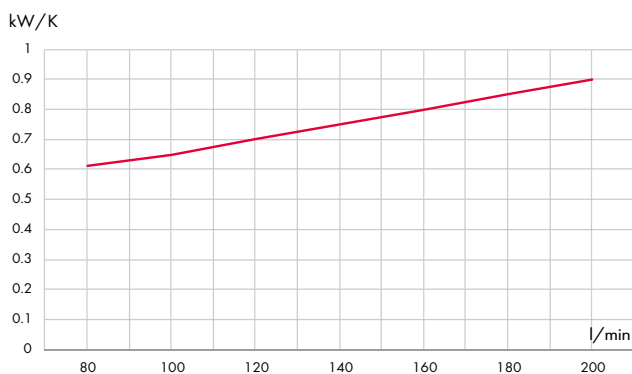


# ACM-18-12/24

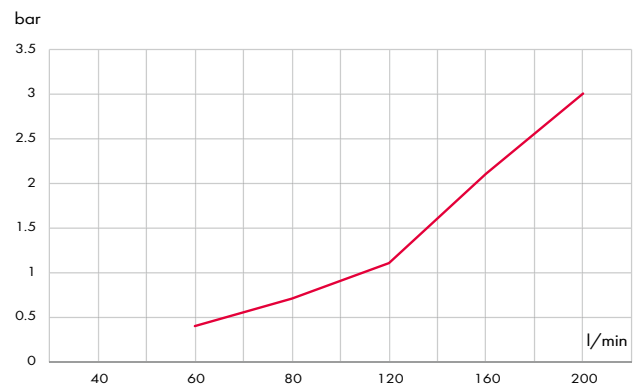


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
120-200	35	12/24 DC	260	2800	Ø 280x2	2680	68	7.5	23

## Cooling capacity

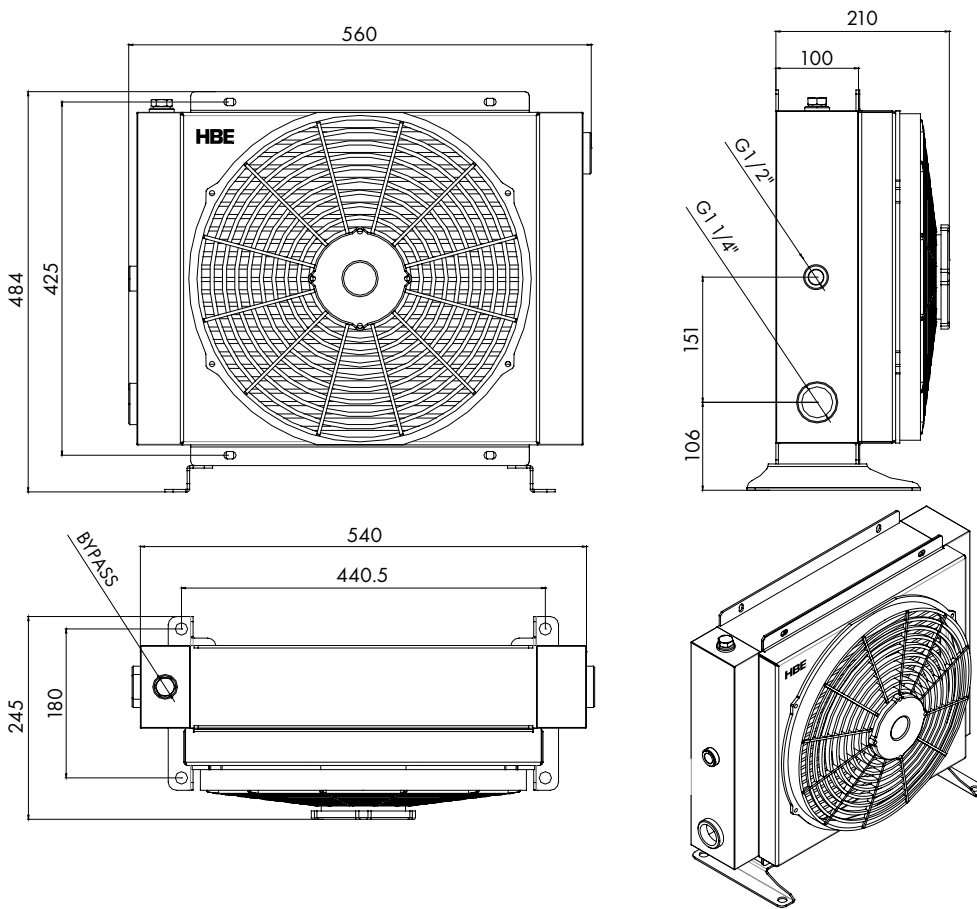


## Pressure drop



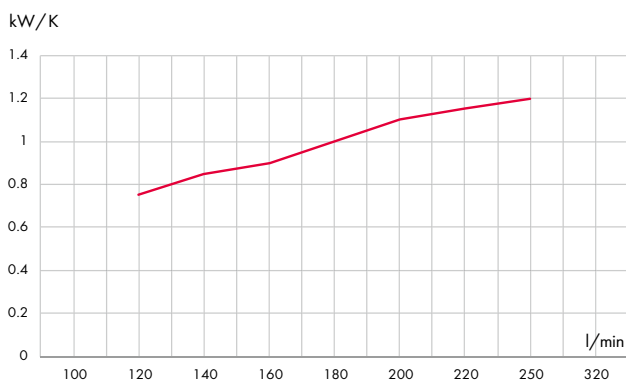
Viscosity [cSt]	10	15	20	30	40	50	60	80	100	200	300
Conversion factor	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3

# ACM-19-12/24

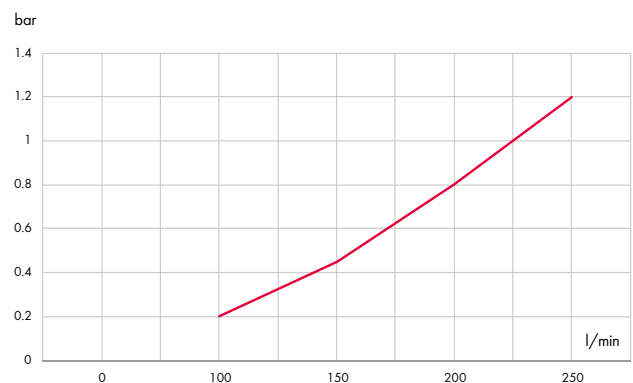


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
150-250	40	12/24 DC	130	2630	Ø 385	2900	68	9	26

## Cooling capacity

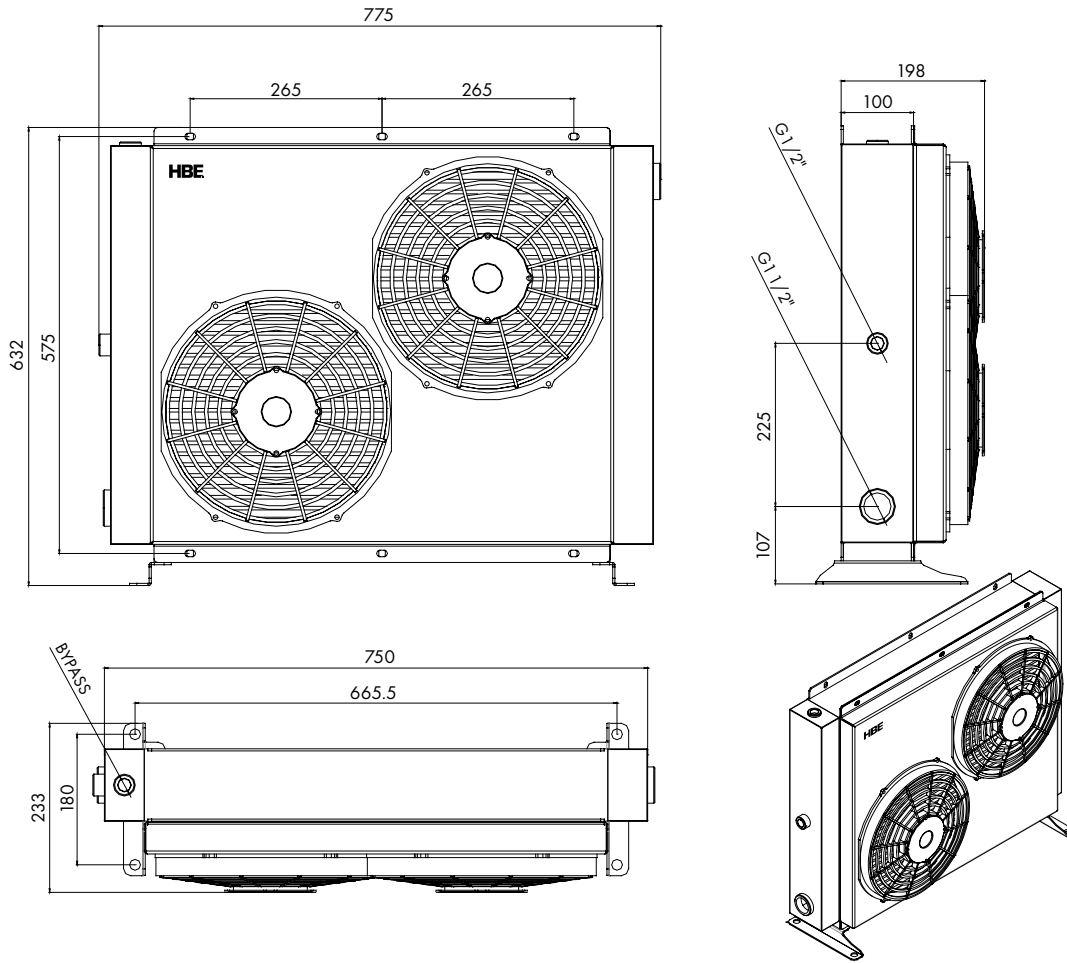


## Pressure drop



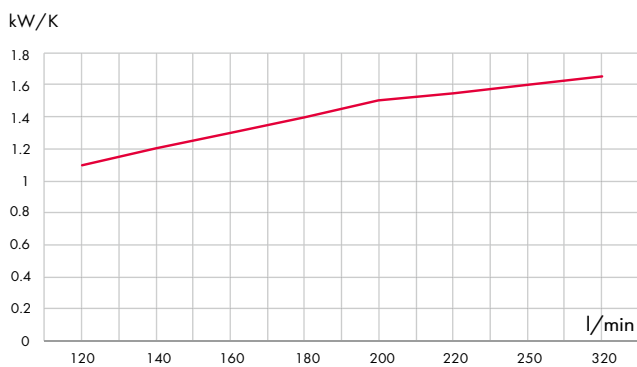
<b>Viscosity [cSt]</b>	10	15	20	30	40	50	60	80	100	200	300
<b>Conversion factor</b>	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3

# ACM-20-12/24

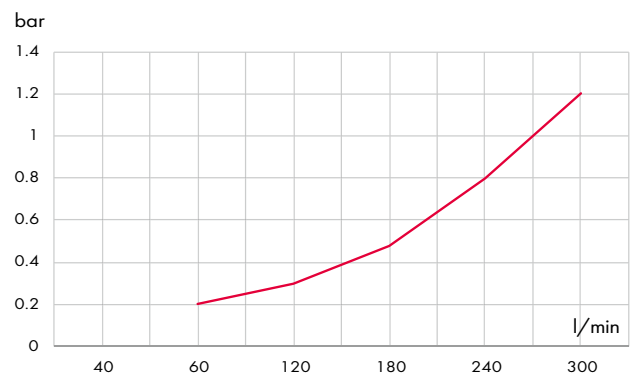


Oil flow min-max [l/min]	Max cooling capacity [kW]	Voltage [V]	Power [W]	Air [m <sup>3</sup> /h]	Ø Fan [mm]	Fan Speed [1/min]	Electric protection [IP]	Capacity [l]	Weight [kg]
180-300	50	12/24 DC	260	3420	Ø 305x2	2570	68	14	39

## Cooling capacity



## Pressure drop



<b>Viscosity [cSt]</b>	10	15	20	30	40	50	60	80	100	200	300
<b>Conversion factor</b>	0.5	0.65	0.77	1	1.2	1.4	1.6	1.9	2.1	3.3	4.3



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