



OLAER (Schweiz) AG

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Features:

OKR 1505

Standard model:

Ready to use fully tested air-cooled system, for indoor frost-free installation.
 Single cooling circuit with integral pump and tank, all tubing fully pre-assembled and connected.

Fully automatic, with all active components installed in the cooling block.

Housing:

- Frame and casing in RAL 7035, light gray
- All casing parts are removable
- Protection class IP 23

Electrical Parts and Connections:

- Electronic temperature controller with indication of the actual water output temperature
- Switching, control and safety systems with complete wiring
- Control voltage 230 V AC (CW 31-78 24 VAC)
- Control box, protection class IP 54

Refrigerant circuit:

- Refrigerant tubing with all necessary fittings
- Copper tubing throughout, with soldered or threaded connections
- MOP temperature expansion valve to limit the vaporizing temperature

Options:

The following options can be supplied for all standard models:

Safety and Control Systems:

- High pressure switch
- Low pressure switch

Compressor:

- Hermetic compressor
- Compressor protected by bimetallic contact
- Protection class IP 54

Condenser:

- Air cooled condenser with copper pipes and aluminium fins
- Low noise axial ventilator

Evaporator:

- Fully soldered heat exchanger plate
- Copper solder
- Thermally insulated

Coolant circuit:

- Copper tubing on the water side
- Thermally insulated, fully covered stainless steel tank
- Level indicator
- Fill and drain through level indicator
- Centrifugal pump

Technical Specifications:

See overleaf.

KE Version For high water outlet temperature accuracy	Error warning Free voltage contact for general error	Electrical control Relays 24/230V
Custom Voltages 1x230V - 50Hz 3x460V - 60Hz	Mains Connection Harting 4-pole connector	Temperature limit control Active temperature limit control (min/max)
Differential temperature control Coolant temperature regulated relative to ambient temperature	Outdoor version	
Flow controller Load circuit control	Manuel bypass Pump protection through manually regulated constant bypass	Automatic bypass Pump protection through bypass valve
Magnetic and non-return valve Control and regulate the load circuit	Tank heating Coolant pre-heating	Isolation Coolant supply tubing and pump when (tw2<15°C)
Level control Single stage	Ventilator-Pressostat Controls the air throughput at the condenser	Filter Mesh guard and filter (PU)
RAL custom colors	Wheels / rollers 2 steering castors, 2 fixed castors	

Standard water-cooling systems:

There are three standard versions of the OLAER water-cooling systems:

- Continuous flow systems with tank and pump (NE)
- Continuous flow systems without tank, with pump (ND)
- Continuous flow systems without tank, without pump (NDO)

OLAER Type	CW	12.02 - NE	19.02 - NE	31.02 - NE	41.02 - NE	51.01 - NE	69.01 - NE	78.01 - NE	80.01 - NE
Refrigerant		R 134a				R 407C			
Cooling capacity (1)	kW	1,4	2,1	3,3	4,2	5,7	7,1	10,1	13,6
Cooling medium		tap water							
Operating range Cooling water outlet temperature	°C	+ 10 to + 25				+ 12 to + 20			
Temperature fluctuation tolerance	K	+ / - 2							
Operating range Ambient temperature	°C	+ 15 to + 40							
Cooling water flow rate at dT = approx. 5K	L/min	3,3	5,5	11,5	16	16	24	25	26,7
Cooling water flow rate (minimum)	L/min	1,7	2,8	5,7	8	8	12	12,5	13,3
Connectors inside thread	Rp	½"	½"	½"	½"	¾"	¾"	¾"	1"
Nominal pump pressure	bar	2 - 3							
Tank volume	l	20	20	25		50		120	
Working voltage (2)		1x230V / N / 50Hz			3x400V / PE / 50Hz				
Number of fan		1							
Airflow rate	m³/h	1700	1000	2400	2000	3500	3500	3500	6700
Sound pressure level (3)	dB(A)	62	62	62	62	61	61	61	58
Power consumption (1)	kW	0,9	1,2	1,7	2,0	2,1	2,6	4,2	5,5
Maximum input current	A	6,5	8	3,6	4,0	4,0	5,0	9,0	9,5
Startup current	A	13	22	16	16	16	16	30	38
Net weight	kg	75	75	85	90	135	140	160	215
Dimensions Width / Depth	mm	445 / 708		640 / 708		770 / 810		740 / 920	
Height (without castors)	mm	675		835		1045		1570	

OLAER Type	CW	100.01 - NE	201.01 - NE	221.01 - NE	251.01 - NE	321.01 - NE	401.01 - NE	501.01 - NE
Refrigerant		R 407C						
Cooling capacity (1)	kW	17,2	19	21,9	24	31,1	37,6	49
Cooling medium		tap water						
Operating range Cooling water outlet temperature	°C	+ 12 to + 20						
Temperature fluctuation tolerance	K	+ / - 2						
Operating range Ambient temperature	°C	+ 15 to + 40						
Cooling water flow rate at dT = approx. 5K	L/min	33,3	50	55	66,6	75	93,3	116,6
Cooling water flow rate (minimum)	L/min	16,7	25	27,5	33	37,5	47	59
Connectors inside thread	Rp	1"	1¼"	1¼"	1¼"	1¼"	1½"	1½"
Nominal pump pressure	bar	2 - 3						
Tank volume	l	120	80	140	200	200	300	300
Working voltage (2)		3x400V / PE / 50Hz						
Number of fan		2						
Airflow rate	m³/h	6250	6650	13100	13100	11700	15000	14700
Sound pressure level (3)	dB(A)	58	60	61	61	62	62	63
Power consumption (1)	kW	6	7,5	10,3	10,5	12,4	14,9	18
Maximum input current	A	10,5	13	19	18	23	27	32
Startup current	A	51	63	86	69	136	138	158
Net weight	kg	230	350	390	430	460	600	650
Dimensions Width / Depth	mm	740 / 920	1141 / 874	1496 / 874		1818 / 874		
Height (without castors)	mm	1570	1700	1700		1950		

(1) Water outlet temperature +20 °C; Ambient temperature +32°C ; Coolant nominal flow rate at 50Hz without pump losses

(2) Custom supply voltages on request

(3) Sound pressure level measured in anechoic half sphere, distance 5m, user resp. service side