



OLAER (Schweiz) AG

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Features:

OKR 1510

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:

- Oil side: Hydraulic hose's
- Thermally insulated, fully covered stainless steel tank
- Level indicator
- Fill and drain through level indicator
- Pump: Gerator type

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 (t oil out.<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 oil-cooling systems:

There are three standard versions of the OLAER oil-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 | CO | 31.02 - NE | 41.02 - NE | 51.02 - NE | 69.02 - NE | 78.02 - NE |
|-----------------------------------------------|-------|------------------------------------------------------------|------------|------------|------------|------------|
| Refrigerant | | R 134a | | | | |
| Cooling capacity (1) | kW | 3,3 | 4,2 | 5,7 | 7,1 | 9,5 |
| Cooling medium | | Oil ISO VG 46 | | | | |
| Operating range Oil outlet temperature | °C | 20 to 35 | | | | |
| Temperature fluctuation tolerance | K | + / - 2 | | | | |
| Operating range Ambient temperature | °C | + 15 to + 40 | | | | |
| Flow rate (minimum) at dT = approx. 10K | L/min | 12 | 15,3 | 20,8 | 25,8 | 34,7 |
| Connectors inside thread | Rp | 1" | | | | |
| Maximum pump pressure | bar | 4 to 5 | | | | |
| Tank volume | l | 25 | | 50 | | |
| Number of fan | | 1 | | | | |
| Airflow rate | m³/h | 3500 | 3500 | 3500 | 3500 | 3500 |
| Sound pressure level (3) | dB(A) | 61 | 61 | 61 | 61 | 61 |
| Working voltage (2) | | 3x400V / PE / 50 Hz and 3x460V / PE / 60 Hz (bi-frequency) | | | | |
| Power consumption (1) | kW | 2,7 | 3 | 4 | 4,5 | 5 |
| Maximum input current | A | 5,5 | 6 | 7,5 | 8,5 | 9,5 |
| Startup current | A | 19 | 19 | 29 | 36 | 48 |
| Net weight | kg | 130 | 140 | 150 | 155 | 175 |
| Dimensions Width / Depth | mm | 770 / 810 | | | | |
| Height (without castors) | mm | 1045 | | | | |

| OLAER Type | CO | 80.02 - NE | 100.02 - NE | 201.02 - NE | 221.02 - NE | 251.02 - NE |
|-----------------------------------------------|-------|------------------------------------------------------------|-------------|-------------|-------------|-------------|
| Refrigerant | | R 134a | | | | |
| Cooling capacity (1) | kW | 13,9 | 17,2 | 19 | 21,9 | 24 |
| Cooling medium | | Oil ISO VG 46 | | | | |
| Operating range Oil outlet temperature | °C | 20 to 35 | | | | |
| Temperature fluctuation tolerance | K | + / - 2 | | | | |
| Operating range Ambient temperature | °C | + 15 to + 40 | | | | |
| Flow rate (minimum) at dT = approx. 10K | L/min | 49,5 | 62,7 | 69,1 | 79,8 | 87,5 |
| Connectors inside thread | Rp | 1 1/2" | | | | |
| Maximum pump pressure | bar | 4 to 5 | | | 10 | |
| Tank volume | l | 120 | | 80 | 140 | 200 |
| Number of fan | | 1 | | | 2 | |
| Airflow rate | m³/h | 6700 | 6250 | 6650 | 13100 | 13100 |
| Sound pressure level (3) | dB(A) | 58 | 58 | 60 | 62 | 62 |
| Working voltage (2) | | 3x400V / PE / 50 Hz and 3x460V / PE / 60 Hz (bi-frequency) | | | | |
| Power consumption (1) | kW | 7 | 9 | 10 | 12,5 | 12,5 |
| Maximum input current | A | 12,5 | 16 | 18 | 23,5 | 22,5 |
| Startup current | A | 74 | 87 | 99 | 140 | 130 |
| Net weight | kg | 240 | 255 | 385 | 430 | 473 |
| Dimensions Width / Depth | mm | 740 / 920 | | 1141 / 874 | | 1496 / 874 |
| Height (without castors) | mm | 1560 | | 1700 | | 1700 |

(1) Oil 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