

advanced quality customized designs made in europe





Oil water coolers

Hybrid design

HYBRID COOLING

EKM/SKM, ECM



Straight tubes (3 diameter)

Greatly enlarged heat exchange surface (fins)

9 sizes: 2 - 2.000 kW cooling capacity Optional:

- sea water with certifications
- compressed air applications
- special design upon request

HYBRID COOLING

UKM - UKTM



U-tubes (2 diameter) In-tank or on-tank solution

Greatly enlarged heat exchange surface (fins)

4 sizes: 2 - 500 kW cooling capacity Optional:

- sea water with certifications
- compressed air applications
- special design upon request, e.g. only cooling cartridge (UKC) with end cap

This heat exchanger combines the advantages of plate heat exchangers with the benefits of shell & tube heat exchangers.

The design of this cooler is as compact as a plate exchanger as it has a greatly enlarged heat exchange surface on the oil side. This is achieved by fins (plates) which are routed over the water tubes, forming a metallic bond with these tubes.

It also retains the advantages of the shell & tube heat exchanger on the water side, as the large, smooth pipes keep it almost entirely clean, whereas the ribbed design of the plate heat exchanger tends to get clogged up easily on the water side.

Further advantages include its greater robustness and the unique opportunity to build in an internal bypass valve.

Bare tube design



Straight- or U-tubes 5 sizes: 2-500 kW cooling capacity Optional:

- different material options
- sprecial design with ASME, TEMA or API-codes upon request
- sea water



Screw-in Heat Exchanger for installation in hydraulic tanks, gear boxes or piping systems (e.g. install in existing threads instead of heating elements)
Threadings: G 1 1/2" or G 2" cooling surface: 0,05 - 0,9 m²
Optional: customized lengths

Fail safe cooler



CM/FS



Fail safe cooler by double-tube design with overpressure protection and electronical control Basis AM/CM-Coolers Optional:

- sea water
- different material options

Electrical oil pre-heater



EDH



Electrical oil pre-heater

to control the heating of fluids 3 sizes heat capacity: 0,5 - 12 kW (60 kW) surface load: 0,8 - 2 W/c m² Optional:

- Thermostat, adjustable 0°-90°C
- Limiter at 100°C

Plate cooler



Brazed plates in stainless steal, copper or nickel brazed variable in sizes and amount of plates Optional:

- brackets
- insulations



Screwed-Plates in stainless steel Different plate materials variable in sizes and amount of plates easy cleaning by modular system Optional:

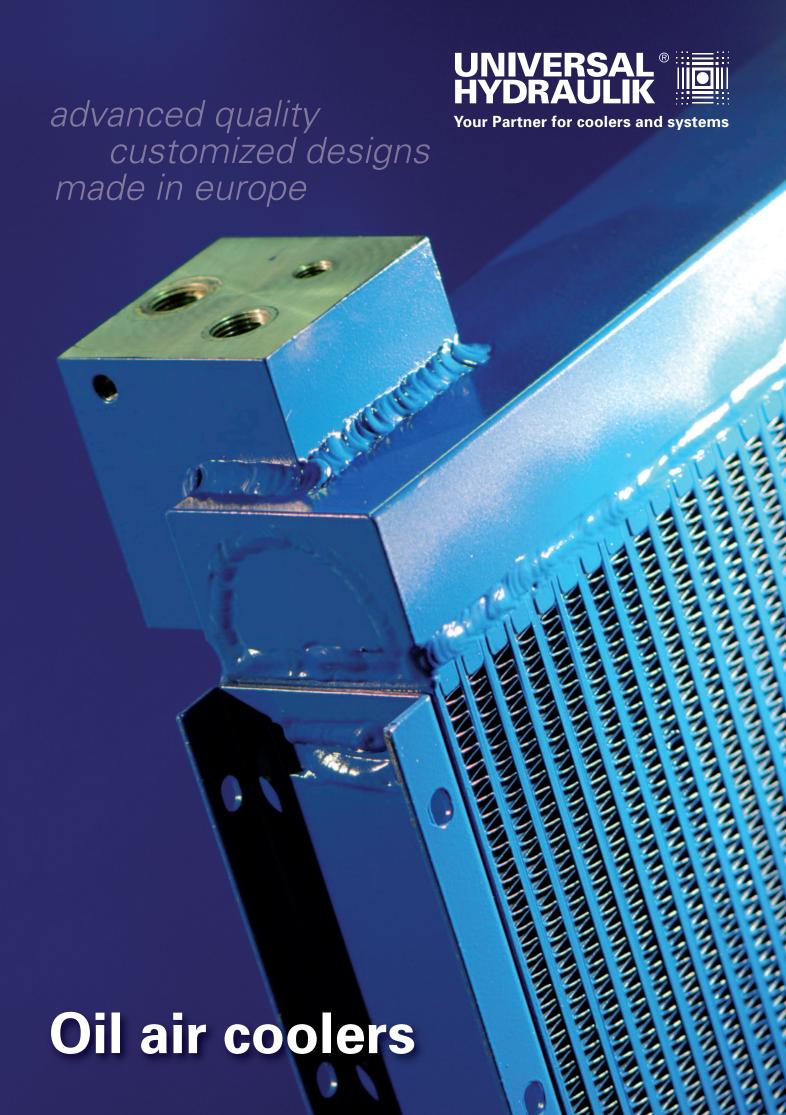
- sea water











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Oil air coolers

Industry

LKI



Drive: 400 V Motor

10 sizes: 2-150 kW cooling capacity Optional:

- Off-Shore design40 bar Test pressure
- special design upon request

TFS/A



Bypass cooling

Installation beside the hydraulic system extremely silent Drive: 400 V Motor 3 sizes: 8-20 kW cooling capacity Optional:

- filter, thermostat, hoses, etc.
- other mounting options

Mobile

LKM



Drive: 12 V-, 24 V- Motor

Basis LKI Series special design upon customer demands

- 40 bar Test pressure
- screw-in thermostat, etc.

LKM-special



Drive: 12 V-, 24 V- Motor

Basis LKM Series individual designs of sizes and drives

- two or more drives
- heat performance can be tested

LKI-HYD



Drive: Hydraulic-Motor with

collar bearing
Basis LKI Series special design upon request Optional:

- without hydraulic motor
- other motors upon request

LKK



Special Design without drive upon customer demands, e.g. multiple combined coolers (oil, charge air, water) in Side-by-Side design. Optional:

- 40 bar Test pressure
- housing, fan suplied seperately

Cooling solutions









We mount serveral standard coolers together on a rack to increase the cooling performance (from 2 to 16 coolers).



We can extend every standard cooler to a compact bypass-cooling filter unit for your hydraulic system.

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