HYBRID COOLING

UNIVERSAL HYDRAULIK
Your Partner for coolers and systems
Heat Exchanger

Hybrid-Design (with fins)

EKM/SKM, SCM
Straight or bent water tubes (U-tubes), fixed or removable, On-Tank or In-Tank version available. 8 different sizes with 2 - 5,000 kW Heat Load 3 tube diameter
Optional:
- Sea water with Marine-certificates (GL, DNV, etc.)
- Compressed-air version
- Stainless steel or titan version
- Bypass-Valve integrated (100% opened)
- Special design upon request

UKM - UKTM
Fail Safe cooler
Double-tube design with 100% electronical leakage control, 5 Unit sizes. Basis SCM-Series
Optional:
- Sea water with Marine-certificates
- Stainless steel or titan version
- Bypass-Valve integrated (100% opened)

Advantages Hybrid-Design:
- Shell side (e.g. Oil): High performance due to additional fins (plates).
- Water side: Long life time due to plain tubes instead of formed plates. Easy to clean even with bad water quality.

Standard Shell & Tube Design (without fins)

CKM
Straight- or U-tubes 8 sizes: 2 – 1,500 kW cooling capacity
Optional:
- different material combinations (e.g. Stainless steel)
- Sea water (with marine certificates)
- TÜV-approvals
- Special designs by request possible

UKC-G
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 1/4", G 1 1/2" or G 2” cooling surface: 0,05 - 0,9 m²
Optional:
- Stainless steel version
- Seawater version

Fail safe cooler

CKM-FS
Fail safe cooler
double-tube design with 100% electronical leakage control, 6 sizes: Basis CKM-series
Optional:
- Sea water (with marine certificates)
- Atex - TÜV-approvals
- Different material combinations (e.g. Stainless steel)

Electrical oil pre-heater

EDH
Electrical oil pre-heater
5 sizes 0 - 100 kW / no calculation software necessary. All relevant data on data sheet available.
Optional:
- Indiv. electronical control solutions
- Insulation (different material)
- Surface load: 1W/cm²
- Water and water mixtures

Special designs

_COOLER-HEATER UNIT_
Combination of a hybrid – failsafe cooler with a electrical oil pre-heater in only one unit!
Other special designs:
- High pressure (500bar)
- High temperature
- Compressed-air cooling
- Etc.

_Plate cooler_

PWT
Brazed plates
in stainless steel, copper or nickel brazed variable in sizes and amount of plates
Optional:
- Different connections
- Different brackets
- Insulations (e.g. PU hard foam)

TL
Screwed-Plates
in stainless steel variable in sizes and amount of plates easy cleaning by modular systems
Optional:
- Sea water (titan)