HYBRID COOLING Your Partner for coolers and systems



Heat Exchanger

Hybrid-Design (with fins)

HYBRID COOLING

EKM/SKM, SCM



Straight or bent water tubes (U-tubes), fixed or removable, On-Tank or In-Tank version available.

8 different sizes with 2,68 - 6705 hp 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





ELECTRICAL

HEATING

Fail Safe cooler



in Hybrid-Design. Much bigger cooling performance. Double-tube design with 100% electronical leakage control. 5 Unit sizes. Basis SCM-Series

- 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). Similar performance and size as plate heat exchangers.
- Water side: Long life time due to plain tubes instead of formed plates. Easy to clean even with bad water quality.

UKM - UKTM



Standard Shell & Tube Design (without fins)

СКМ Straight- or U-tubes

Optional:



8 sizes: 2,68 - 2011 hp cooling capacity

different material combinations

- (e.g. Stainless steel) Sea water (with marine certificates)
- TÜV-approvals
- Special designs by request possible

UKC-G

SCM-FS



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



Predictive Maintenance 4.0

Fail safe cooler double-tube design with 100% electronical leakage control,

6 sizes: Basis CKM-series

Optional:

- Sea water (with marine certificates)
- Atex- or TÜV-approvals
- Different material combinations (e.g. Stainless steel)

HYBRID

FAILSAFE

COOLING

EDH



Electrical oil pre-heater

Electrical oil pre-heater

5 sizes 0 - 134 hp / 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

ELECTRICAL HEATING

cooler with a electrical oil pre-heater

FAIL SAFE Combination of a hybrid - failsafe

COOLER-HEATER UNIT



in only one unit!

Other special designs:

- High pressure (7251 psi)
- High temperature
- Compressed-air cooling Etc.

ASME-CODE



ASME certification

Basis standard or hybrid



Optional:

- TEMA-C design
- API-614

Plate cooler

PWT



Brazed plates

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

Optional:

- Different connections
- Different brackets

email: info@universalhydraulik.com · www.universalhydraulik-usa.com

Insulations (e.g. PU hard foam)



Screwed-Plates

in stainless steel variable in sizes and amount of plates easy cleaning by modular systems

Optional:

Sea water (titan)







