

## Transformer Oil Water Coolers

# MARKET-LEADING DOUBLE TUBE SAFETY TECHNOLOGY



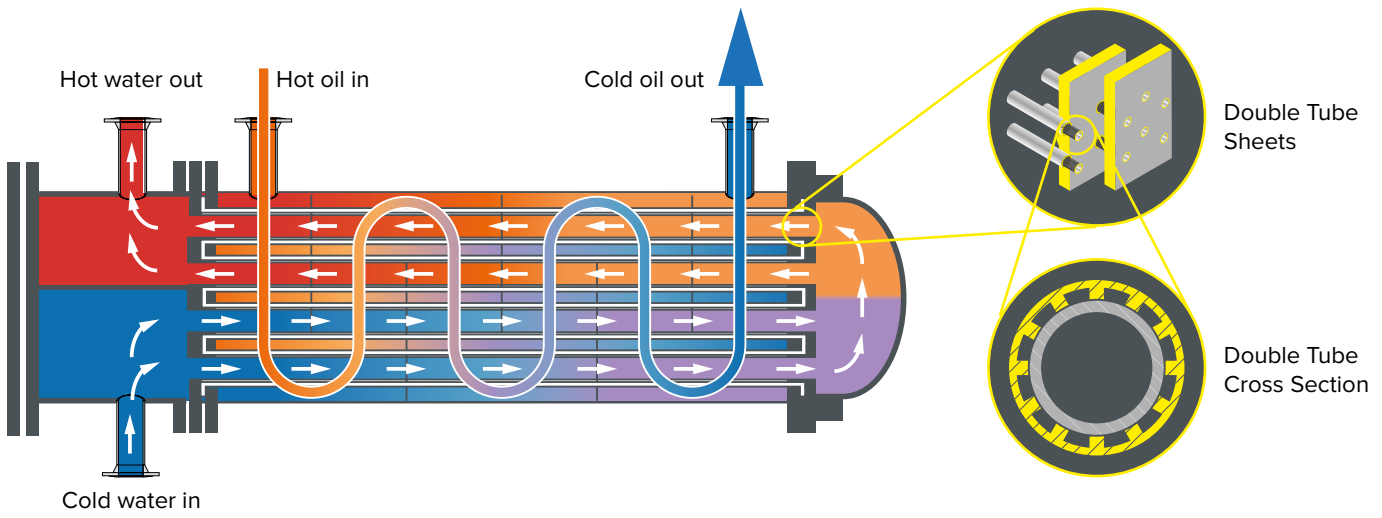
## DESIGN & FUNCTION

Since 1974 we have been pioneering the development of double tube safety heat exchange technology, which continues to be at the forefront of industry standards. It is ideal for TOWCs as the double tube wall keeps the transformer oil separate from the cooling water as well as vice versa.

While cooling water flows through inner tube, heat from insulating oil flowing through the shell and around the exterior surface of the outer tube is efficiently transferred through the two walls of inner and outer tubes and carried away by the cooling water. If a tube wall is damaged, the medium flows through small channels arranged between the double tubes into a leakage collection space and triggers an alarm in the leak detection device. Because the second tube wall remains undamaged the media are kept separate. This means that the operator can continue to run the heat exchanger until the next scheduled maintenance, avoiding costly unplanned downtimes, as well as contamination of the equipment.

## ADVANTAGES

- ▶ **SAFE OPERATION THROUGH DOUBLE TUBE SAFETY TECHNOLOGY**
- ▶ **CUSTOMIZED DESIGN**
- ▶ **ADAPTION TO EXISTING COOLING WATER**
- ▶ **FEATURES FOR DIFFERENT APPLICATIONS**
- ▶ **CONFORM WITH MOST INTERNATIONAL STANDARDS (DIN, ASME, NORSOK ETC.)**
- ▶ **OFFSHORE COMPATIBLE**



**TRANSFORMER OIL WATER COOLER SMART**

High grade of standardization



**Design pressure:**  
8 bar g (standard)  
Up to 25 bar g on request



**Fouling reserve:**  
5% (standard)



**Design temperature:**  
-10°C to 115°C



Streamlined and cost optimized design



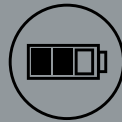
Compact design

**TRANSFORMER OIL WATER COOLER ADVANCED**

Highly flexible design for most applications



**Design pressure:**  
8 bar g (standard)  
Up to 25 bar g on request



**Fouling reserve:**  
10% (standard)



**Design temperature:**  
-10°C to 115°C



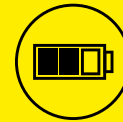
Customized design possible

**TRANSFORMER OIL WATER COOLER PREMIUM**

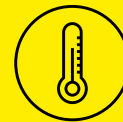
Highly flexible design, enables easy service and maintenance



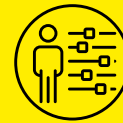
**Design pressure:**  
8 bar g (standard)  
Up to 25 bar g on request



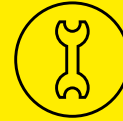
**Fouling reserve:**  
25% (standard)



**Design temperature:**  
-25°C to 115°C



Fully customized design



Extreme service friendly