

# Newsletter

News from Universal Hydraulik · May 2015



## News from the Hannover Trade Show 2015

Universal Hydraulik presented eight new products/expansions of previous models at the Hannover Trade Show this year. Well known is Universal Hydraulik for the customer specific solutions for heat exchangers and systems, and for its exceptional quality.

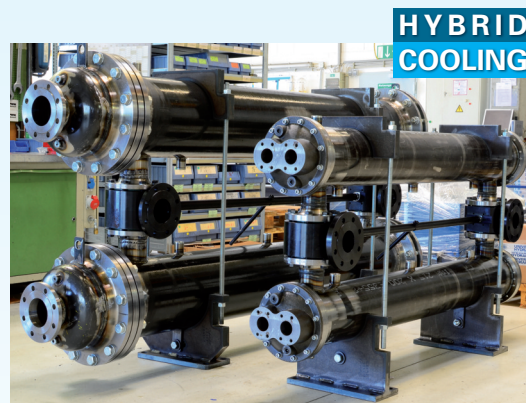


## Hybrid-heat exchanger series again extended!!!

Universal Hydraulik extended the hybrid- heat exchanger series again for the SCM -2400 and for the EKM-1400. The First is a bigger size and the latter is a in-between sizes to optimize cooling capacity ranges. With that new models Universal covers seven sizes now and a cooling capacity of up to 1.500 kW.

Also:

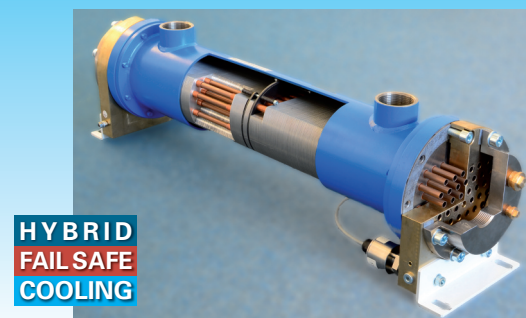
- Coolers are available partially or completely in stainless steel.
- Coolers can withstand higher pressure peaks and temperatures than before.
- New bypass solution makes external bypass valve and piping obsolete.



Cooling units with switch-over-devices: SCM-1772 and NEW SCM-2484

## The new, optimized Fail-Safe Heat-Exchanger is here !

After a one year research and development phase Universal Hydraulik has come out with a new Fail-Safe Heat Exchanger , that functions under the same conditions as the successful hybrid model design. The size shrinks to ca. 1/3 of the former cooler design. The fail-safe heat exchanger is, just like its predecessor, 100% electronically monitored, so in case of any leakage an alarm can be triggered. In case there is a current application that uses a hybrid design, you can now just replace it with a fail-safe heat exchanger without increasing the size or losing cooling performance. The extra price compared to a standard hybrid cooler is very competitive.



SCM-FS - Series



CKM-4000 - Series

## The 7. and 8. Series size ( CKM and CKM-FS) is here:

Universal Hydraulik extended the shell and tube size CKM-Series , that is also available as a fail-safe design.

The new sizes are called CKM-3000 and CKM 4000 and set a new performance class that can distract a cooling capacity of up to 2.000 kW, with a flow of 2.400 liters of oil or 5.500 liters of water.

## Calculation Software Update:

The UH-Calculation Software has added the newly presented coolers/expansions already:

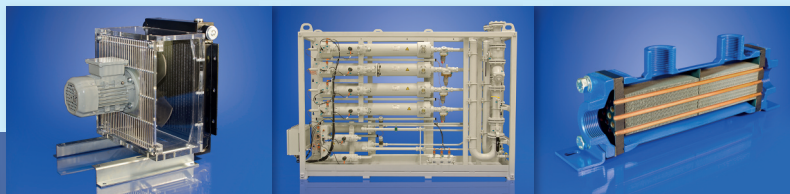
- Oil- air heat exchanger series completely integrated
- Hybrid- fail-safe heat exchanger ( SCM-FS)
- EKM-1400 Series + SCM-2400 Series
- CKM – 3000 and 4000 series ( also as CKM-FS available)





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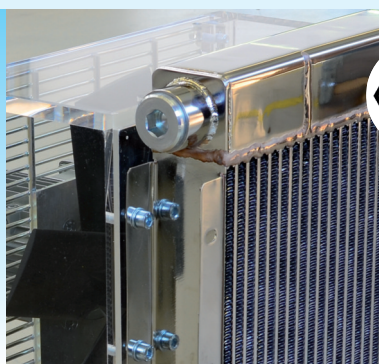
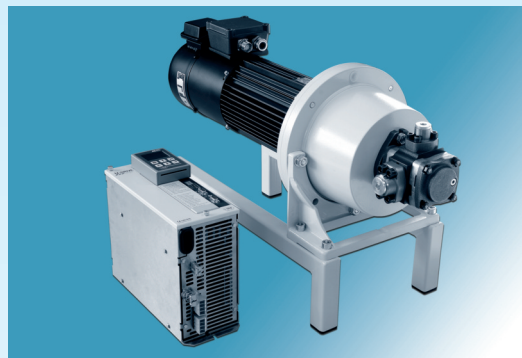
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## New drive concept for hydraulic pumps ! (Synchron motor/ Permanent magnet motor)

Universal Hydraulik developed with Pikatron (TAE Antriebstechnik) together a Servo pump. The concept replaces the fixed or variable displacement pump with three-phase asynchronous motor that usually runs permanently and consumes a lot of energy. Our solution consumes approximately 50-60% less energy.

Result: no energy usages-> no heat loss, but high electric input is necessary. The performance spectrum reaches from 1.1 kW to 250 kW. A lot of plastics machinery already function under this concept.



## Air-Cooler: LKI-series with ATEX Certification

Universal Hydraulik extends the special solutions of the oil-air heat exchangers series LKI. The Atex-certification of the LKI Series has been expanded:

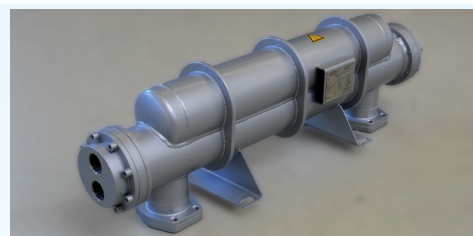
- T 4 40 C and T4 50 C
- Dust and gas

## Air-cooler: LKI-series in stainless steel

The LKI series is now available in complete stainless steel for extreme sophisticated ambient conditions and for critical fluids.

## Compressors:

Universal Hydraulik developed a new heat exchanger for the compressor market that operates under the hybrid function and it cools compressed-air much more efficient. The size of the heat exchanger was cut in half and the pressure drop was dropped by one third. The design can be customized for any compressor application.



KOMP-Design

## Client application lubrication system (with UKM & EDH):

**Function:** Oil supply for thrust bearings with temperature controlled transmission oil und supply of the roller bearings and gearing.

The supply of the thrust bearings should function with an operating temperature from 40 C +/-5 C and a maximum operating pressure of 165 bar. The regulation of the temperature takes place through a between tank with a heating element of the EDH-series (performance 7,5 kW) of Universal Hydraulik and a oil-water heat exchanger of the UKM- series ( heat load: 46 kW). The water flow of the heat exchanger is regulated through a control valve 4-20 ma. The oil flow to the thrust bearings is symmetrically split through a gear splitter. All parameter, such as flow, pressure, and temperature are monitored. The supply of the roller bearings and the gearing takes place over a separate pump with a flow of 139 l/min and an operating pressure of 10 bar maximum.

