



Hannover exhibition, Germany in April 2017

At the Hannover Fair 2017, Universal Hydraulik GmbH once again exhibited several product innovations, resp. extensions of existing product series.

Universal Hydraulik GmbH is known since many years for customer-specific solutions for coolers and systems, as well as for its high quality approach.

Hybrid Cooler series up to 5.000 kW

Universal Hydraulik GmbH expanded the hybrid cooler series by the next size: SCM-4000 (DN500).

Thus, the success model now covers a spectrum of 2 kW up to 5,000 kW cooling capacity with 8 sizes !!

**HYBRID
COOLING**



Predictive Maintenance 4.0 !

Universal Hydraulik GmbH introduces a cooling-heating system, which is equipped with an electronic control unit (Siemens S7-1500).

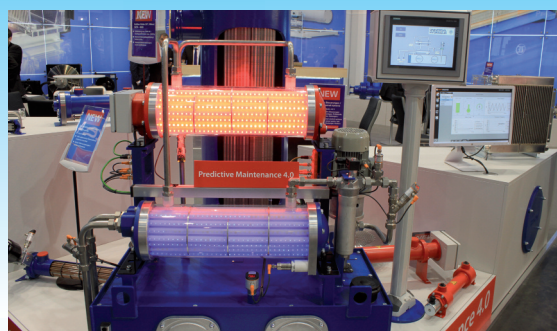
The sensor data is used for the heating and cooling control and sent the data to a PC via a network connection, on which the sensor data is evaluated. The sensors are cross-linked via an IO-Link connection. The evaluation is realized with the Smart Observer software from ifm.

Cooling-heating system for industry 4.0

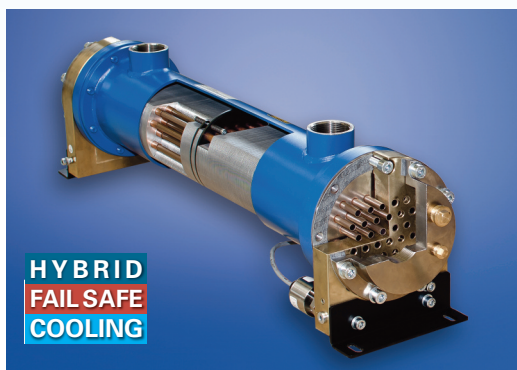
**HYBRID
COOLING**

**ELECTRICAL
HEATING**

Predictive Maintenance 4.0



Failsafe coolers match to Predictive Maintenance 4.0 !



**HYBRID
FAIL SAFE
COOLING**

Universal Hydraulik GmbH produce since decades Failsafe heat exchangers, which are suitable for Industry 4.0, because of 100% electronic monitoring.

The new hybrid-failsafe coolers reduce the size to 1/3 of the previous size. The electronic monitoring system triggers an alarm for any type of leakage. The "second heat exchanger" (double tube design) can continue to be used up to its replacement after an alarm message. This guarantees 100% safety of the system.

If an existing hybrid design is used, this size can be converted into a failsafe coolers without any change. The additional costs for the standard cooler also remain moderate.

Universal Hydraulik GmbH

Siemensstr. 33 · D-61267 Neu-Anspach · Tel: 0 60 81/94 18-0 · Fax 0 60 81/94 18 49
eMail: info@universalhydraulik.com · www.universalhydraulik.com

Universal Hydraulik USA, Corp.

Fort Meigs Business Center · 25651 Fort Meigs Road, Suite A · Perrysburg, OH 43551
Tel: +1 419 873 63 40 · Fax: +1 419 873 63 42
eMail: j.d.solether@universalhydraulik.com · www.universalhydraulik-usa.com



Newsletter

Spring 2017

Las Vegas IFPE/Conexpo in March 2017

Universal Hydraulik exhibited for the first time at the large double fair IFPE (like Hannover exhibition) and CONEXPO (like BAUMA exhibition) in the USA.

Since 2014, we have established our own production site (Perrysburg, Ohio) and have already achieved great success there.

Here we manufacture heat exchangers with our high quality requirements according to US specifications.



Since 2016, we have been certified by TÜV-Hessen in accordance with the latest directive (ISO 9001:2015) in our plants in the USA, Germany and the Czech Republic all at once.

ASME-Code Cooler

Universal Hydraulik GmbH has been developing ASME coolers for more than a year now on the basis of the hybrid coolers.

The final certification according to ASME Section V III, Div. 1 will be targeted for summer 2017.



Special solutions:

■ High pressure cooler

Universal Hydraulik GmbH can now offer coolers for very high pressures up to 500 bar. The coolers are completely welded (also the tube side) and are suitable for fluids and gases.

■ Compressor cooler (COMP)

Universal Hydraulik GmbH is now expanding the COMP-cooler series also for the SCM-1700 series and can thus offer compressed air cooling in three sizes.

■ Concrete mixer cooler (LKFM)

Universal Hydraulik GmbH offers an oil-air-cooler for mobile applications, which has integrated the hydraulic filter in the tank and which results in a very compact unit.

■ Energy saving (LKI)

Universal Hydraulik GmbH offers frequency-controlled motors for the oil-air cooler series LKI in order to run the fan by demand. This can be offered with an additional electronic control.

Customer Application 1 Frequency control for Hydraulic units:

Example of a hydraulic unit for a machine tool.

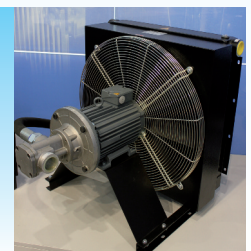
The constant-pump is controlled by a frequency converter, which depends on a pressure sensor.

The aim is to reduce power loss and noise emission.



TFS/A – series extended

Universal Hydraulik GmbH is expanding its oil-air cooler-pump series by a size of 32 kW cooling capacity at an oil flow of 80 l/min.



Customer Application 2 Oil supply system for a friction welding machine:

Task:

1. Conditioning of two oil circuits within the machine.
Cooling and filtration of machine hydraulic.
2. Conditioning of gearbox oil and supply of the lubrication points within the machine. Due to the technical requirement our proven products such as the screw pump and the EKM hybrid design heat exchangers are used.

