

Thermo management for plants with
high power density

**Plate heat exchanger for hydraulics:
Compact and efficient**



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High performance with compact dimensions: This is a prerequisite of users and designers of hydraulic plants and drives. The hydraulic industry require with ever increasing demands in regards to performance i.e. for the machine tool industry and plastics industry as well as mobile machines. There is one secondary effect which appears quite often: The heat volume which has to be dissipated is becoming larger. Users who do not react to this have to expect a shorter service life of the hydraulic fluid and a higher wear of the hydraulic system.

Best practice for an efficient thermo management

KTR offers the solution to this problem – the new plate heat exchangers series PHE. They represent the condition for an efficient thermo management by reducing the temperature of the hydraulic fluid.



This is achieved in a tight space: Special stamped plates produce very good heat transfer and as a result high cooling capacities with compact designs.

More compact design, low weight

Compared to other designs which are used frequently, our plate heat exchanger only requires 25 % - 30 % of space with the same power. The main use for this is with mobile applications where low weight is beneficial.

Developed particularly for hydraulics

KTR plate heat exchangers series PHE are made from stainless steel 1.4401 using copper filler metal. This ensures a high resistance to corrosion. They are suitable for operating temperatures from -10 to +200° C and a maximum operating pressure of 30 bar and have been developed specifically for application's in hydraulics.

Addition to Our Hydraulic Range of Products

The PHE series is supplied in four designs for various cooling capacities – with connections from 3/4" to 1 1/2" and 20 to 40 plates in the standard series. They are a useful addition to KTR's range of hydraulic components for the thermo management of hydraulic fluids:

- Tank heating
- Oil/air cooler and oil/water cooler
- Temperature gauge
- Industrial control systems

Numerous applications

Examples of main applications for such components in optimising the performance of hydraulic plants and extending the service life of hydraulic fluid's are machine tools, plastics machines, test benches and pump power packs.

Please contact Mr. Joachim Grunwald: if you require any further information on Plate Heat Exchangers.

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