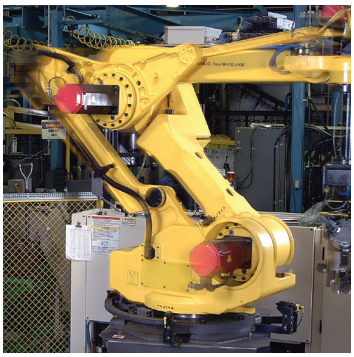

aerospace
climate control
electromechanical
filtration
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hydraulics
pneumatics
process control
sealing & shielding

Hydraulic Oil Coolers

For Temperature Optimization in Hydraulic Systems

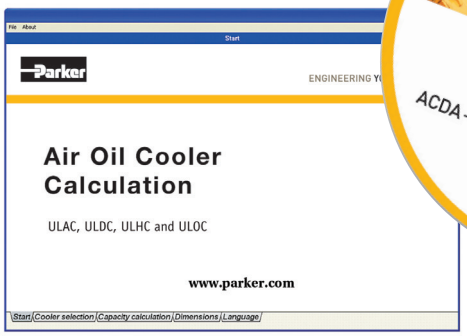
ENGINEERING YOUR SUCCESS.

Increase your hydraulic system's up time and lifespan.

Decrease service and repair costs.

Parker – the leading manufacturer of hydro-pneumatic accumulators and coolers for industrial and mobile applications in North America – introduces the next generation of **heavy-duty hydraulic oil coolers** for mobile and industrial use. With a maximum cooling capacity of up to 400 HP, these robust coolers are the ideal cooling solution for applications in the off-highway construction, agriculture and energy markets.

More cooling per $ with precise calculations and our engineers' support. To choose the right kind of cooler, enter your values and get suggested solutions using our DVD or visit **parker.com/accumulator** now.



Overheating – an expensive problem
An underestimated cooling capacity produces a temperature that is simply too high. Potential consequences include poor lubricating properties, higher internal leakage, higher risk of cavitation and even damaged components. Overheating leads to a significant drop in efficiency, which can be detrimental to our entire environment.

Parker coolers – the cost-efficient solution
Parker oil coolers produce a higher cooling capacity and lower pressure drop for **improved temperature optimization**. This occurs when the oil viscosity is maintained at recommended values. It creates a wealth of economic and environmental benefits, such as:

- **Extended life of both the hydraulic system and oil**
- **Increase in the system's operating time (fewer shutdowns)**
- **Reduction in service and repair costs**
- **Ability to maintain a high efficiency level while in continuous operation**

Sizing your cooler for optimization
Selecting the right cooler requires precise system sizing. And, the most reliable method is with Parker's calculation program. Combined with evaluations from our experienced engineers, this program gives you the opportunity

Parker is a global player specializing in innovative, efficient system solutions for temperature optimization and energy storage. All over the world, our products are working in the most diverse environments and applications.

for **more cooling per $ invested**. To start, download our user-friendly calculation program at **www.parker.com/accumulator** now. Contact us for an in-depth system review as an added value.

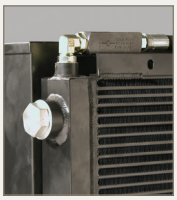
Our quality and performance guarantee
A continual desire for more cost-efficient and environmentally friendly hydraulic systems requires ongoing development. So Parker is continuously improving our coolers for maximum system performance and reliability. In fact, we regularly conduct meticulous quality and performance tests in accordance with standardized methods – cooling capacity in accordance with EN1048, noise level ISO 3743, pressure drop EN 1048 and fatigue ISO 10771-1.

Professional competence, as well as advanced technology and extensive knowledge from the industry, allows Parker to provide you with the cooler solutions that meet your unique needs. **Contact the Parker Accumulator and Cooler Division for more information today!**

Choosing the right accessories

While supplementing a hydraulic system with a cooler promotes increased system up time and longer life expectancy, well-planned accessories can further improve your overall system. Parker offers a variety of options:

- **Pressure-controlled bypass valve**
- **Integrated temperature-controlled bypass valve**
- **Thermo contact**
- **Lifting eyes**
- **Smart DC drive speed regulation**
- **Stone guard/dust guard**
- **External temperature-controlled three-way valve**



Pressure-controlled bypass valve

Temperature-controlled bypass valve

Thermo contact

Lifting eyes

Smart DC drive speed regulation

Stone guard/ dust guard

Temperature-controlled three-way valve

ULAC with AC Motor

For industrial use – maximum cooling capacity 400 HP*

Optimized design with the right choice of materials and components ensures reliable and long lasting cooling with low service and maintenance costs.

Compact design results in a lighter weight unit with higher cooling capacity and lower pressure drop.

Easy to maintain and easy to retrofit into many applications.

Quiet fan design due to optimization of material and blade.

AC motor – NEMA three phase motors are standard. A wide range of operating voltages and frequencies available.

Cooler core with low pressure drop and high cooling capacity.

ULOC Cooling System

For industrial use – maximum cooling capacity 60 HP

Optimized design and the right choice of materials and components produce a long useful life, high availability and low service and maintenance costs.

Integrated circulation pump produces an even flow with low pressure pulsations.

Easy to maintain and easy to retrofit in many applications.

Compact design and low weight.

Quiet fan and pump.

Cooler core with low pressure drop and high cooling capacity.

ULDC with DC Motor

For mobile use – maximum cooling capacity 40 HP

Optimized design with the right choice of materials and components ensures reliable and long lasting cooling with low service and maintenance costs.

Compact design results in a lighter weight unit with higher cooling capacity and lower pressure drop.

Easy to maintain and easy to retrofit into many applications.

DC motor 12V/24V

Quiet fan and fan motor.

ULHC with Hydraulic Motor

For mobile and industrial use – maximum cooling capacity 215 HP

Optimized design and the right choice of materials and components produce a long useful life, high availability and low service and maintenance costs.

Compact design results in a lighter weight unit with higher cooling capacity and lower pressure drop.

Easy to maintain and easy to retrofit into many applications.

Hydraulic motor with displacement from 8.4 cc/rev to 25.2 cc/rev.

Collar bearing for fan motor on larger models provides longer operating life.

Quiet fan design due to optimization of material and blade.

Cooler core with low pressure drop and high cooling capacity.

*At 250 gpm and 70 °F ITD

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