



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Industrial Cooling Systems

Dedicated Products and Solutions



ENGINEERING YOUR SUCCESS.

Efficient cooling for industrial applications

Adding service life – subtracting cost

Overheating – an expensive problem

An under-sized cooling capacity produces a too high temperature balance. The consequences are poor lubrication, internal leakage, higher risk of cavitation, damaged components, etc. All in all, overheating leads to a significant drop in cost efficiency and environmental consideration.

Temperature optimisation for cost-efficient operation

Temperature balance in a hydraulic system occurs when

the cooler can cool the energy input that the system does not consume – the system's lost energy:

$$(P_{\text{loss}} = P_{\text{cool}} = P_{\text{in}} - P_{\text{used}})$$

Temperature optimisation means that temperature balance occurs at the system's ideal working temperature – the temperature at which the oil's viscosity and the air content comply with recommended values.

From Parker Hannifin, you can get everything you need to keep cool.



AIR/OIL COOLERS

LAC – AC motor

- Cooling capacity up to 300 kW
- Single-phase or three-phase AC motor
- Compact and light weight
- Quiet fan and motor
- Low pressure drop
- High cooling capacity
- Service-friendly, easy to retrofit
- LAC-X for ATEX requirements
- LAC-M for marine environments

For Power Units • Lubrication Systems
• Marine Cranes • Presses • Wind Power

Benefits of a correct working temperature:

- Extended system service life
- Extended oil service life
- Increased system availability – more operating time and fewer shutdowns
- Reduced service and repair costs
- Maintained efficiency in continuous operation – system efficiency falls if the ideal working temperature is exceeded



SUITABLE PUMPS

QPM Gerotor

- Flow from 10 to 80 l/min
- With or without by-pass
- Compact design
- Low noise level
- Working pressure 10 bar

GR Screw pump

- Viscosity range 4–2000 mm²/s
- Free from pulsations
- Can be installed directly on the electrical motor
- Easy installation
- Low noise level
- Working pressure 40 or 80 bar
- Large range of models

Take the next step – with the right accessories

Selecting the right accessories can further improve your cooling system. We offer a wide range to fit your unique applications and conditions – contact us for guidance!



Integrated pressure-controlled bypass valve



Integrated temperature-controlled bypass valve



External temperature-controlled 3-way valve



LHC – hydraulic motor

- Cooling capacity up to 300 kW
- Hydraulic motor up to 25.2 cm³/rev
- Compact and light weight
- Quiet fan and motor
- Low pressure drop
- High cooling capacity
- Service-friendly and easy to retrofit
- LHC-X for ATEX requirements
- LHC-M for marine environments

For Forestry Machines • Mining Machines
Crushing Machines • Marine Cranes

LOC – circulation pump

- Cooling capacity up to 45 kW
- Integrated circulation pump
- Compact and light weight
- Quiet fan and motor
- Low pressure drop
- High cooling capacity
- Service-friendly, easy to retrofit

For Power Units • Lubrication Systems
Marine Winches • Presses • Wind Power

LDC – DC motor

- 12V or 24V DC motor
- Maximal cooling capacity 30 kW
- Can be fitted with Smart DC Drive
- Compact and light weight
- Quiet fan and motor
- Low pressure drop
- High cooling capacity
- Service-friendly, easy to retrofit

For Truck cranes • Body builders
• Mining Applications



PWO – Brazed

- Working pressure 15 bar @ +155 °C
- Maximum working temperature +225 °C
- Cooling capacity up to 500 kW
- Flow range up to 1600 l/min
- Light and compact
- Easy to install
- Cost efficient and environmentally friendly
- Wide range for many applications

For Power Units • Lubrication Systems
• Marine Cranes • Presses • Wind Power

GWO – Gasketed

- Working pressure from 0-25 bar
- Working temperature from -30 °C to +180 °C
- Flow ranges from 0 to 4600 m³/h
- Efficient and compact
- Openable for mechanical cleaning
- Expandable for future capacity increases
- The gaskets limits the working temperature and does not suit all fluids

For Power Units • Lubrication Systems
• Marine Cranes • Presses • Wind Power

SWO – Shell & Tube

- Working pressure standard 15 bar
- Working temperature up to +95 °C
- Flow range up to 900 l/min
- Cleaning without opening the hydraulic circuit
- Wide range
- Marine & Industrial series available
- The gaskets limits the working temperature and does not suit all fluids

For Power Units • Lubrication Systems
• Marine Cranes • Presses • Wind Power

WATER/OIL COOLERS



Temperature-sensing valve



Thermo contact



Lifting eyes



Stone and dust guard



Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates,
Dubai

Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt

Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener
Neustadt

Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku

Tel: +994 50 22 33 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles

Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG – Bulgaria, Sofia

Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk

Tel: +375 17 209 9399
parker.belarus@parker.com

CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany

Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup

Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid

Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa

Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens

Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaoers

Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin

Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty

Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal

Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker

Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira

Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest

Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow

Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga

Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica

Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul

Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev

Tel: +380 44 494 2731
parker.ukraine@parker.com

UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

US – USA, Cleveland
(industrial)

Tel: +1 216 896 3000

US – USA, Elk Grove Village
(mobile)

Tel: +1 847 258 6200

Asia Pacific

AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN – China, Shanghai

Tel: +86 21 2899 5000

HK – Hong Kong

Tel: +852 2428 8008

IN – India, Mumbai

Tel: +91 22 6513 7081-85

JP – Japan, Fujisawa

Tel: +81 (0)4 6635 3050

KR – South Korea, Seoul

Tel: +82 2 559 0400

MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore

Tel: +65 6887 6300

TH – Thailand, Bangkok

Tel: +662 717 8140

TW – Taiwan, New Taipei City

Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

BR – Brazil, Cachoeirinha RS

Tel: +55 51 3470 9144

CL – Chile, Santiago

Tel: +56 2 623 1216

MX – Mexico, Apodaca

Tel: +52 81 8156 6000

EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL,
IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

US Product Information Centre

Toll-free number: 1-800-27 27 537

www.parker.com

