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Light Duty Range Cooler-LDRA

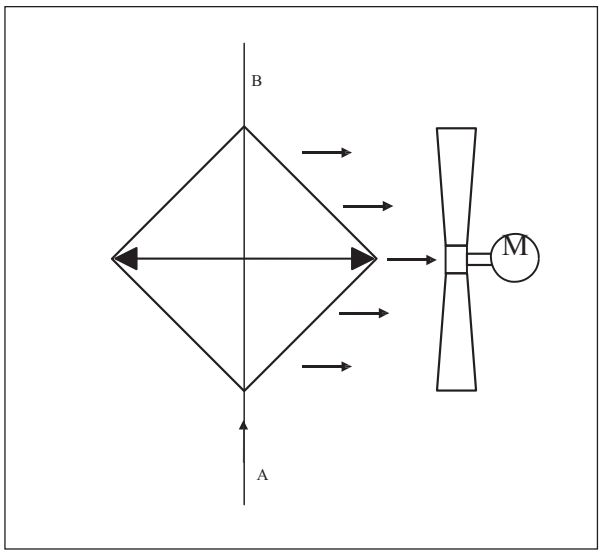
Parker OLAER®

Effective March 1st, 2015
Light Duty Range Cooler—LDRA

ENGINEERING YOUR SUCCESS.

Light Duty Range Cooler—LDRA

IN THIS SECTION



Features

- **The Light Duty Range (LDRA) is designed to be the ideal "fit for purpose" solution for small system and low demand machines.**
- **100% "Made in Asia" LDRA is a competitive solution for cooling up to 10 kW* heat.**
- **LDRA002 to 007 coolers are designed with powerful fan which allows an optimised heat transfer.**

* Depending on working parameters

Models, Cooling Performance, Noise & Weight

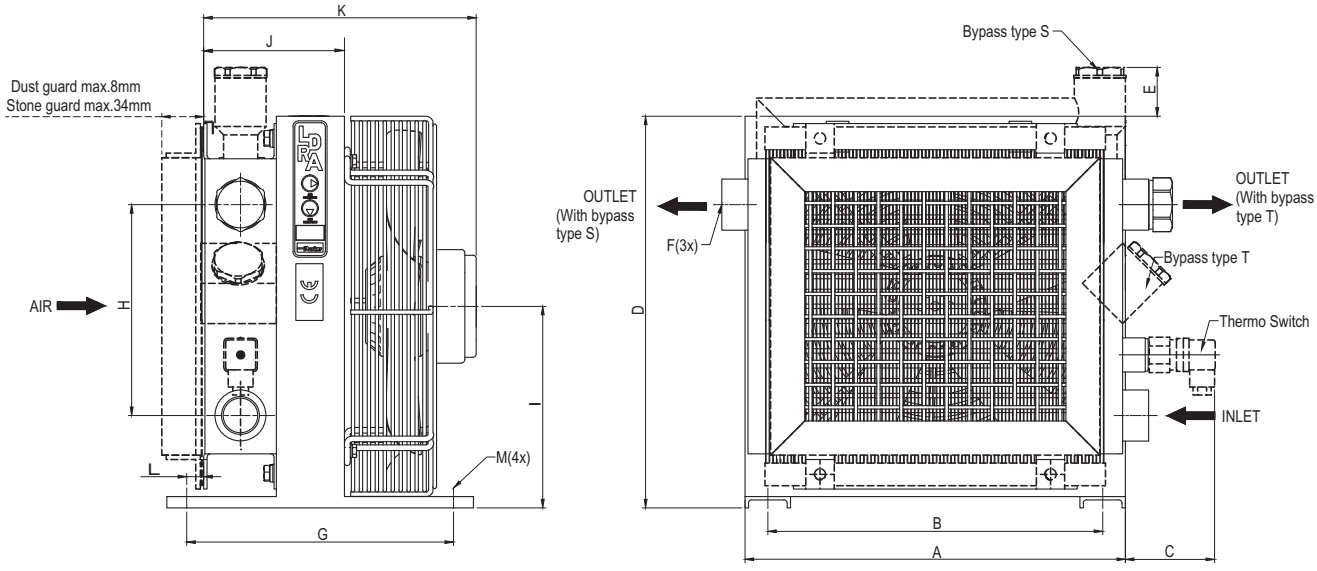
TYPE	No. of poles/Capacity (kW)	Noise LpA dB(A)1m*	Weight kg(approx)
LDRA 002-2 single-phase	2-0.05	51	5
LDRA 003-2 single-phase	2-0.10	53	6.5
LDRA 004-2 Three-Phase	2-0.10	53	7
LDRA 004-4 Three-Phase	4-0.10	51	7
LDRA 007-2 Three-Phase	2-0.21	58	11
LDRA 007-4 Three-phase	4-0.10	52	11

* Noise Level Tolerance ±3dB(A)

LpA dB(A) 1m* = Acoustic pressure Level

kW = No. of Poles-Capacity

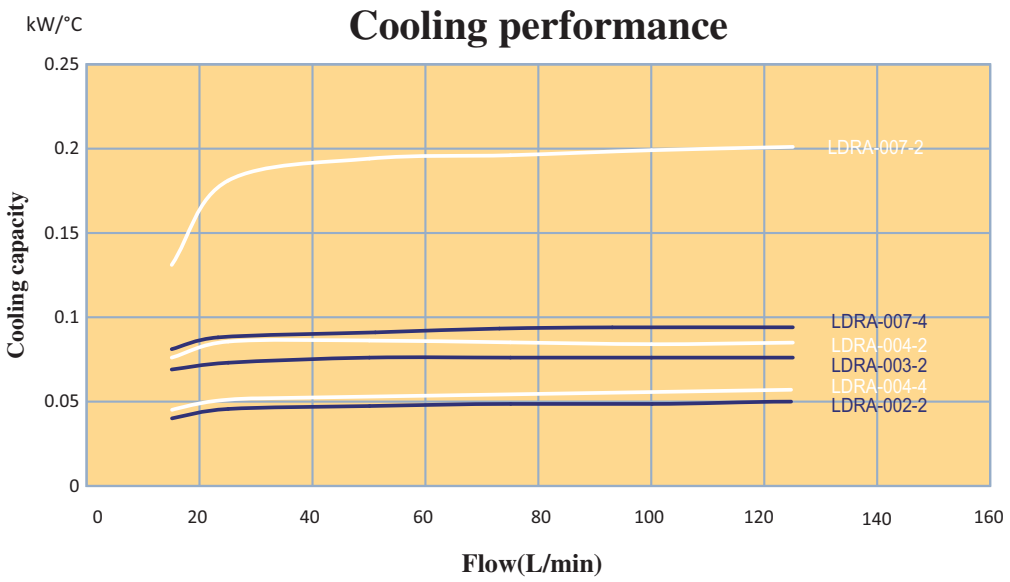
kg(approx) = weight



Dimensions

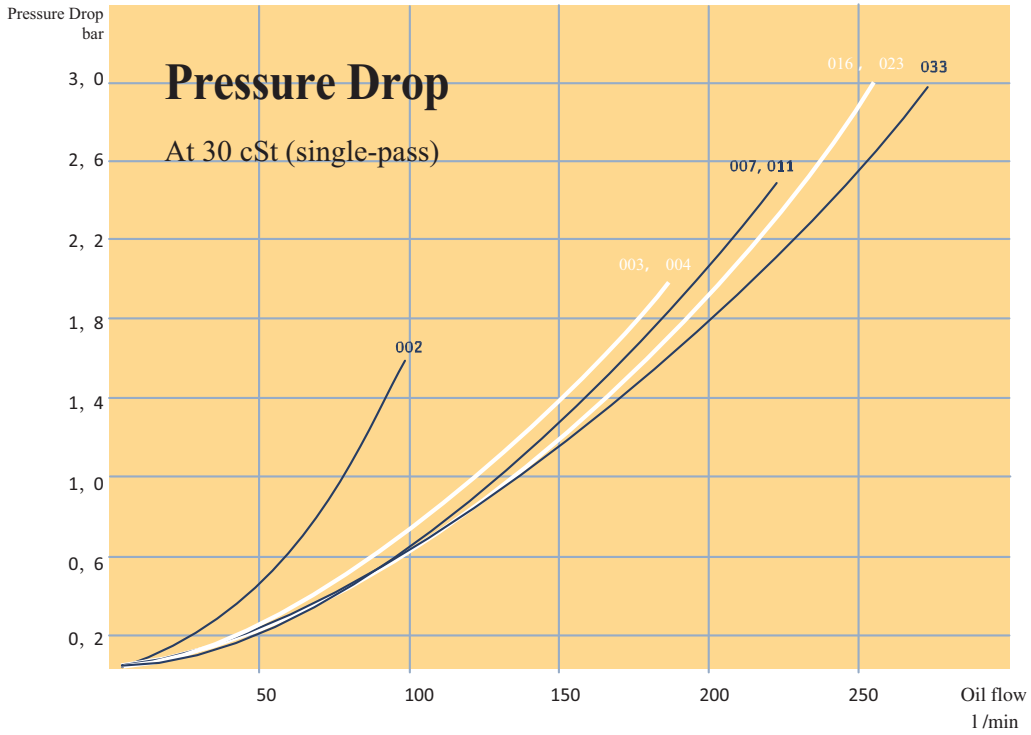
TYPE	A	B	C	D	E	F	G	H	I	J	K	L	ΦM
LDRA-002	175	159	-	181	-	G1/2	87	90	105	-	122	-	7x20
LDRA-003	250	220	78.5	260	32	G1	170	90	132	105	182	15	9x20
LDRA-004	250	220	90	260	46	G1	170	90	135	105	182	13.5	9x20
LDRA-007	335	295	82	345	33	G1	235	160	178	125	204	15	9x20

Cooler Performance



The cooling capacity curves are based on the inlet oil temperature and the ambient air temperature. An oil temperature of 60 °C and an air temperature of 20 °C produce a temperature difference of 40 °C. Multiply by kW/ °C for total cooling performance in kW.

Pressure Drop



LDRA cooler for Industrial Application

LDRA air oil cooler with single-phase or three-phase AC motor is optimized for use in the industrial sector.LDRA cooler is suitable for installation in most applications and environments. With precise caculations and our engineers support, LDRA is the correct cooler solution for more cooling per $ invested.

Specification

FLUID COMBINATIONS	
Mineral oil	HL/HLP in accordance with DIN 51524
Oil/water emulsion	HFA, HFB in accordance with CETOP RP 77H
Water glycol	HFC in accordance with CETOP RP 77H
Phosphate ester	HFD-R in accordance with CETOP RP 77H

TECHNICAL DATA, COOLER MATRIX	
Maximum static operating pressure	21bar
Dynamic operating pressure	14bar
Heat transfer limit	±6%
Maximum oil inlet temperature	120 °C
* Tested in accordance with ISO/DIS 10771-1	

COOLING CAPACITY CURVES
The cooling capacity curves in this technical data sheet are based on tests in accordance with EN 1048 and have been produced using oil type ISO VG 46 at 60 °C.

TECHNICAL DATA FOR MOTOR	
Insulation class	B
Rise of temperature	B
Protection class	IP44

MATERIAL	
Cooler matrix	Aluminum
Fan blades	Steel
Fan Motor	Aluminum
Fan housing	Steel
Fan guard	Steel
Other parts	Steel
Surface treatment	Electrostatically powder-coated

CONTACT OLAER FOR ADVICE ON
Oil temperatures > 120 °C
Oil viscosity > 100 cSt
Aggressive environments
Ambient air rich in particles
High-altitude locations

Ordering Information

Example: LDRA – 007 – 2 – S01 – 50 – 000 – 0 – 0
1 2 3 4 5 6 7 8

1.The Light Duty Range Cooler= LDRA	

2.COOLER SIZE	
002、 003、 004、 007	
011-033 contact Parker for help	

3.NUMBER OF POLES, MOTOR	
2 – POLE	= 2
4 – POLE	= 4
6 – POLE	= 6
8 – POLE	= 8
4/6/8 contact Parker for help	
*For 002-007standard is 2-pole	

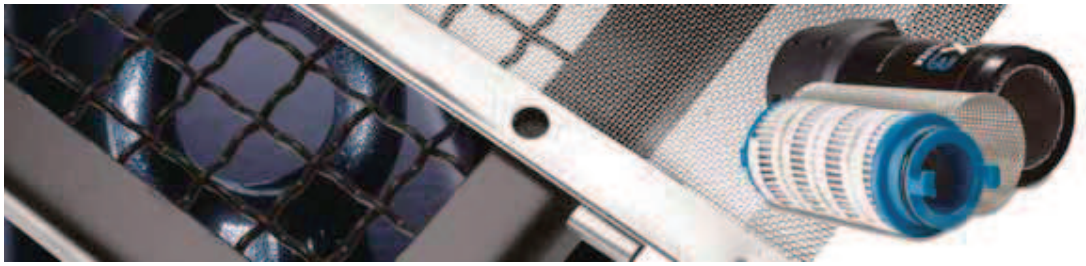
4.VOLTAGE AND FREQUENCY	
S01 - Single Phase	110-120V 50/60Hz
S02 - Single Phase	220-230V 50/60Hz
S03 - Single Phase	100V 50/60Hz
S00 - Motor for special voltage or frequency 1)	
T01 - Three Phase	220/380V 50/60Hz
T02 - Three Phase	230/400V 50/60Hz
T03 - Three Phase	415-420V 50/60Hz
T04 - Three Phase	440-460V 50/60Hz
T05 - Three Phase	200V 50/60Hz
T00 - Motor for special voltage or frequency 1)	
1) Stated in plan language at end of description	

5. THERMO CONTACT	
No thermo contact	= 00
40 °C	= 40
50 °C	= 50
60 °C	= 60
70 °C	= 70
80 °C	= 80
90 °C	= 90

6. COOLER MATRIX	
Standard	= 000
Two-pass *	= T00
Built-in, pressure-controlled bypass, single-pass	
2 bar	= S20
5 bar	= S50
8 bar	= S80
Built-in, pressure-controlled bypass, two-pass *	
2 bar	= T20
5 bar	= T50
8 bar	= T80
Built-in, Temperature and pressure-controlled bypass, single-pass	
50 °C， 2.2 bar	= S25
60 °C， 2.2 bar	= S26
70 °C， 2.2 bar	= S27
90 °C， 2.2 bar	= S29
Built-in, Temperature and pressure-controlled bypass, two-pass *	
50 °C， 2.2 bar	= T25
60 °C， 2.2 bar	= T26
70 °C， 2.2 bar	= T27
90 °C， 2.2 bar	= T29
* = not for LDRA-002 ~ LDRA-004	

7. MATRIX GUARD	
No guard	= 0
Stone guard	= S
Dust guard	= D
Dust and stone guard	= P

8. STANDARD/SPECIAL	
Standard	= 0
Special 1)	= Z
1) Stated in plan language at end of description	

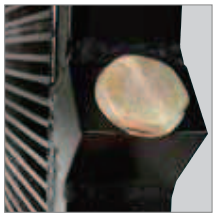


With our specialist expertise, industry knowledge and advanced technology,
we can offer a range of different solutions for coolers and accessories to meet your requirements.

Take the next step

- choose the right accessories

Supplementing a hydraulic system with a cooler, cooler accessories and an accumulator gives you increased availability and a longer useful life, as well as lower service and repair costs. All applications and operating environments are unique. A well-planned choice of the following accessories can thus further improve your hydraulic system. Please contact Olaer for guidance and information.

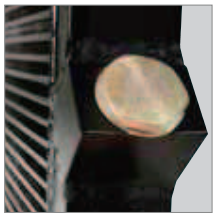


Pressure-controlled bypass valve *Integrated*

Allows the oil to bypass the cooler matrix if the pressure drop is too high. Reduces the risk of the cooler bursting, e.g. in connection with cold starts and temporary peaks in pressure or flow.

Stone guard/Dust guard

Protects components and systems from tough conditions.



Temperature-controlled bypass valve *Integrated*

Same function as the pressure-controlled by–pass valve, but with a temperature-controlled opening pressure - the hotter the oil, the higher the opening pressure.

Lifting eyes

For simple installation and relocation.

Thermo contact

Temperature switch with fixed set point. For temperature warnings, and for more cost-efficient operation and better environmental consideration through the automatic switching on and off of the fan motor.

Temperature-controlled 3-way valve *External*

Same function as the temperature-controlled bypass valve, but positioned externally.
Note: must be ordered separately.

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

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 6700 2700

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, Taipei
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

RevD

ACDAP
Product Imformation Centre
No.299 Tuoqing Road, Qingpu District,Shanghai,China
WWW.PARKER.COM
Tel: +86 21 6700 2700

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