ULRM Series

Rear-Mount Oil Coolers for Industrial Applications



Extend Component Lifespan and Increase System Performance.

High hydraulic fluid temperatures can damage system components, as well as significantly alter the way your hydraulic system performs – leaving you with costly repairs and downtime. The Parker ULRM Series provides durable rear-mount coolers designed to fit behind standard TEFC electric motors. Engineered for case drain applications or applications requiring minimal cooling, the ULRM Series affordably removes heat from your hydraulic fluid to protect your system.

The ULRM Series offers robust and efficient bar and plate construction. Designed to the standard dimensions found on NEMA frame motors, it significantly reduces your installation time, so you can get up and running faster.



Contact Information:

Parker Hannifin Corporation

Accumulator & Cooler Division

10711 North Second Street

Machesney Park, IL 61115

phone 815 636 4100 fax 815 636 4111

www.parker.com/coolers

Product Features:

- Robust, efficient bar and plate construction
- Flexible mounting options (for horizontal and vertical units)
- Custom under-motor mount for easy installation (vertical mount)
- Ability to rotate core 90 degrees for multiple port configurations
- Universal mounting brackets (adjustable on two axes)
- Optional removable air filter

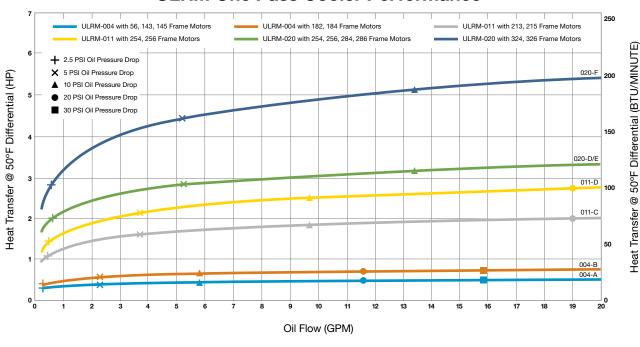
Design Engineering:

- Innovative design for reduced installation times
- Custom sizing and 3D models available
- Application engineers on hand for design assistance and technical support

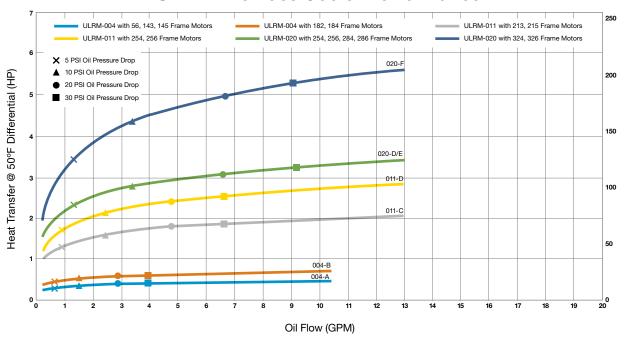


ULRM Series Cooling Performance

ULRM One Pass Cooler Performance



ULRM Two Pass Cooler Performance

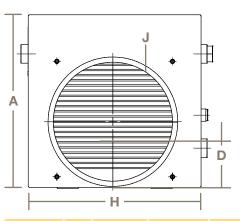


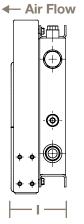
Note: The Cooling capacity curves are based on an Entering Temperature Difference (ETD) of 50°F and ISO VG46 oil.

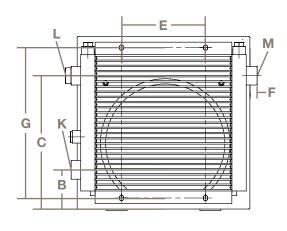
Head Load (hp) x
$$\frac{50}{\text{ETD (Actual)}}$$
 = Curve hp

Heat Transfer @ 50°F Differential (BTU/MINUTE)

ULRM Series Dimensions

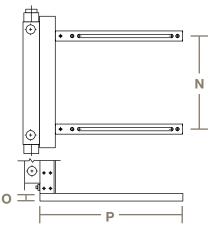






		One	Pass	Two Pass									One Pass		Two Pass		ass	Weight lbs.	
Туре	A	В	С	В	С	D	E	F	G	Н	- 1	J	K	L	М	K	L	М	(approx.)
ULRM-004	11.1	-	7.5	3.6	7.5	See	6.0	1.3	9.0	11.1	5.0	See	SAE #8		۸.	C.	۸.		13
ULRM-011	16.4	3.8	12.8	4.9	11.6	Chart	8.0	0.9	14.3	16.4	5.0	Chart	SAE		4E 16	S/ #	ΑΕ :8	-	28
ULRM-020	20.8	6.0	17.0	6.1	14.8	А	8.0	0.9	18.7	20.8	5.0	А	#16					45	

Under Motor Mount





Weight lbs. (approx.)

20

35 52

18.8

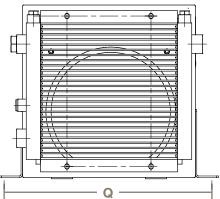
24.8

24.8

1.2

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Туре	Q	Weight lbs. (approx.)			
ULRM-004	13.1	15			
ULRM-011	18.4	30			
ULRM-020	22.8	47			



Universal Feet

m	m
5.8	
-	-

Includes	holts and	l blocks	for	mounting	motor
IIICIUUCS	DOILS and	DIOCING	101	mounting	motor.

See Chart A

Туре

ULRM-004

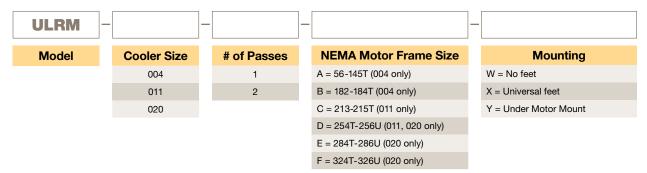
ULRM-011

ULRM-020

Chart A									
NEMA Frame Size	Cooler Size	Motor Mount Bolts	Motor Center (D)	Motor Opening (J)	Under Motor Mount Spacing (N)	Adapter Plate			
56, 56H, 143T, 145T	ULRM-004	5/16-18 UNC	3-1/2"	6-1/4"	4-7/8", 5-1/2"	Υ			
182, 182T, 184, 184T	ULRM-004	3/8-16 UNC	4-1/2"	8-1/4"	7-1/2"	N			
213, 213T, 215, 215T	ULRM-011	3/8-16 UNC	5-1/4"	9-3/4"	8-1/2"	Υ			
254T, 254U, 256T, 256U	ULRM- 011/020	1/2-13 UNC	6-1/4"	11-3/4"	10"	020 only			
284T, 284TS, 284U, 286T, 286TS, 286U	ULRM-020	1/2-13 UNC	7"	13-1/4"	11"	Υ			
324T, 324TS, 324U 326T, 326TS, 326U	ULRM-020	5/8-11 UNC	8"	15-1/4"	12-1/2"	N			

ULRM Series Specifications

Order Key



Technical Specifications	
Fluid Combinations	
Mineral oil	
Oil/water emulsion	
Water glycol	
Phosphate ether	
Material	
Cooler core	Aluminum
Other parts	Steel
Surface treatment	Electrostatically powder-coated
Cooler Core	
Maximum static working pressure	300 PSI
Dynamic working pressure *Tested in accordance with ISO/DIS 10771-1	200 PSI*
Heat transfer tolerance	±6%
Maxumum oil inlet temperature	250°F
Contact Parker for advice on	
Oil temperatures > 250°F	
Aggressive environments	
Environments with heavy airborne par	ticulates
High-altitude locations	

Filter Kits (sold separately) (Includes air filter and brackets) Size 004: Part# AFK-004 Size 011: Part# AFK-011 Size 020: Part# AFK-020 Filter Service Parts Spare Filter (1pc) Size 004: Part# FIL-004 Size 011: Part# FIL-011 Size 020: Part# FIL-020

Mounting Service Kits Universal Feet Kit

(Brackets [2pc] and hardware)
Part# UFK-RM

Under Motor Mount Kit
(Skis [2pc] and hardware)
Size 004-A: Part# UMM-S-5/16"
Size 004-B: Part# UMM-S-3/8"
Size 011-C: Part# UMM-S-3/8"
Size 011-D: Part# UMM-L-1/2"
Size 020-D: Part# UMM-L-1/2"
Size 020-E: Part# UMM-L-5/8"

Adapter Service Kits

Motor Seal Plate Kit (Seal plate and hardware) Size 004-A: Part# MSP-004-A Size 011-C: Part# MSP-011-C Size 020-D: Part# MSP-020-D Size 020-E: Part# MSP-020-E



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