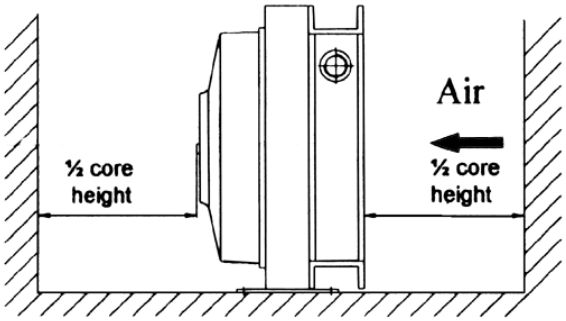
Installation and Servicing Instructions: ULDC Air/Oil Cooler

These instructions should be observed prior to installation of the PARKER ULDC cooler.

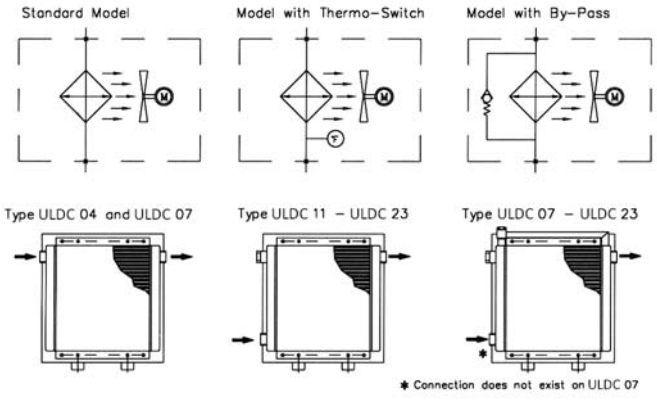
Mounting

The PARKER coolers permit both horizontal and vertical mounting. The conduit entry of the DC motor must always be turned downwards. To prevent personal injury, always secure the cooler adequately. The distance from the nearest obstruction should not exceed half the height of the cooler core.



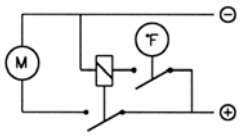
Hydraulic connection

Connect the cooler as illustrated below using hydraulic hoses both to and from the cooler. We recommend mounting in a separate cooling circuit when possible. When this can not be done, install the cooler in the system return line. Avoid linking to systems that could cause pressure spikes in excess of 200 psi. PARKER shall not be held responsible for any consequences due to modification and/or variation with regard to connections.

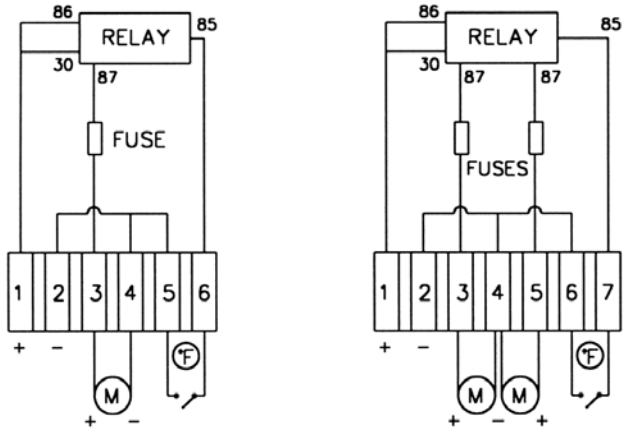


Electrical Connection

PARKER ULDC cooler is supplied with a 12V or 24V DC motor. Connect the power source to the cooler as illustrated below. For protection of the motor, always use a relay.



The circuit diagram below should be applied when connecting a cooler equipped with a switch box.



In case where the cooler is provided with a thermoswitch, use a relay if the current lULDC is greater than:

10 A at 12V DC
5 A at 24V DC

Prior to Start-Up

- Check cooler core and fan guard for damage.
- Check that the cooler is provided with a caution label for fan rotation
- Check that the cooler is correctly connected according to the above. PARKER shall not be held responsible for any consequences due to variations.

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At Start-Up
Check that the direction of rotation is correct, i.e. that the eletromotor poles are connected correctly.

Noise Level
Remaining close to the cooler for a extended time may be annoying. Inappropriate mounting location may generate increased noise level.

Cleaning the Cooler Core
The easiest method of cleaning the air fins is by using compressed air. Fouling can be dealt with by using a high-pressure washing system with a degreasing agent. Flush with water afterwards.

Note: When using a high-pressure washing system, be careful to align the water jet parallel to the air fins. Additionally, the cooler core must be cool before cleaning.

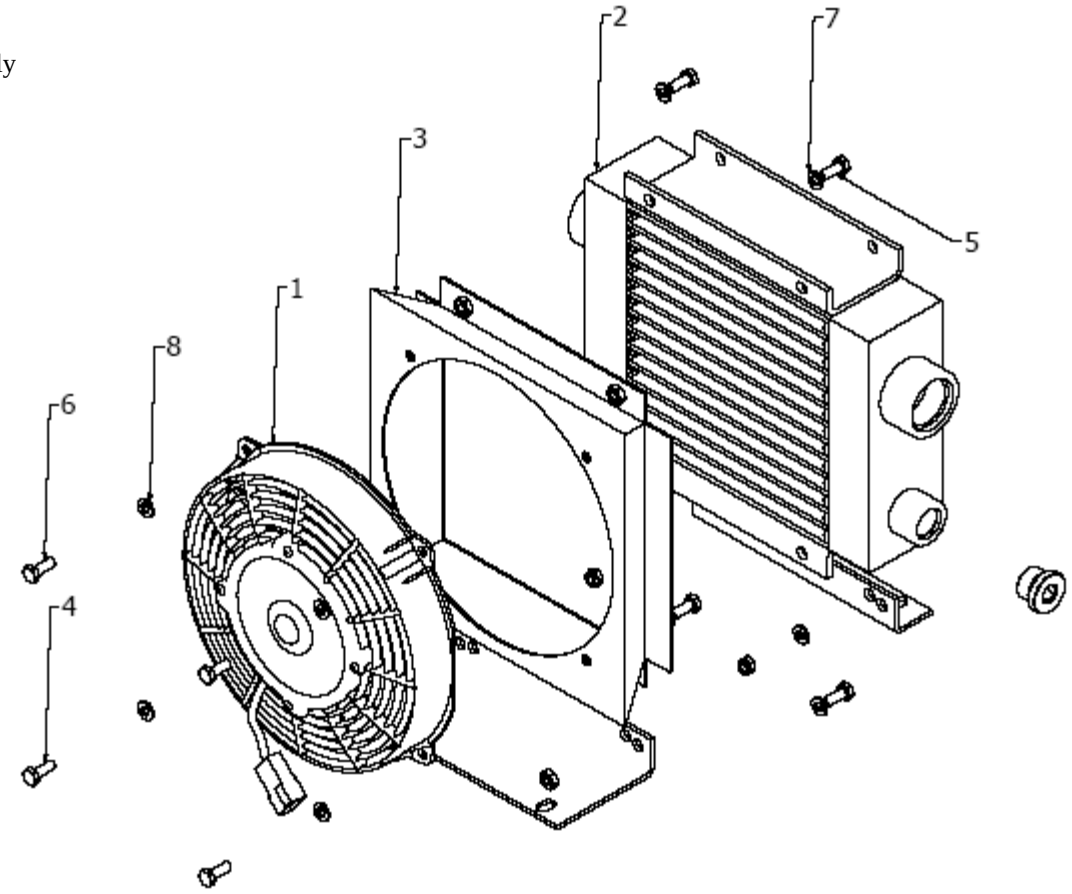
When cleaning the inside of the cooler core, connect the core to a closed circuit and flush the inside with a degreasing agent. After cleaning, flush with the same fluid that will be used in the system.

Miscellaneous
- In the event of breakdown, consult PARKER.
- When handling the cooler, e.g. for cleaning or repair, disconnect all power supply. Be careful, the cooler may be hot.
- The fan generates static electricity by air friction. Do not put sensitive electronic equipment in the immediate vicinity of the cooler.
- Consult PARKER when using fluids different from standard hydraulic fluids such as heavy lubricating oils.
- The electromotor may only be connected to the specified direct current. PARKER shall not be held responsible for any consequences due to improper connections.
- PARKER shall not be held responsible for any consequences due to repair or modification made by the customer.

Parts List
1. Fan Assembly
2. Cooler core
3. Fan housing

4-6 Fasteners

7-8 Washers



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⚠WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having expertise. It is important that you analyze all aspects of your application, including consequences of any failure and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

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