

Assembly instructions HTF4 Radiator Series



The HTF4 is a high-end heat exchanger, designed to dissipate large quantities of heat. The MO-RA3 unfolds its full potential in connection with slowly rotating fans.

	HTF4 3x140 LT/PRO	
Dimensions (LxWxH):	495 x 152 x 65mm	
Weight	2900g	
Material (inside)	Tubes - copper, Fins - aluminium	
Material (housing)	Sheet steel, coated, stainless steel polished	
Connections	G ¼ inch	
Temperature-resistant up to	80°C	

Notice: A coloured installation manual in PDF format is available in the service section of our homepage at (www.watercool.de)

Attention: Installation at your own risk. Non-observance of the installation instructions may damage the radiator. Watercool will assume no liability for damage to the hardware.

Installation instructions

Accessories installation	Type of screw
Fan 140 x 25mm	Countersunk screw M3 x 30mm
Fan cover	Countersunk screw M3 x 30mm
External support	M3 x 6mm
Feet	magnetic

The heat exchanger can be operated in any position, whether horizontal or upright makes no difference. It is possible to operate the HTF4 passive (without fan) as well as active (with fan). With passive operation, the heat quantity to be dissipated should not exceed 150W.

Attention: Due to the large number of installed pipes, it is vital to always use the right screw size for the installation of fans and optional accessories. The used screws may therefore not penetrate further than 6mm into the heat exchanger. The use of longer screws may damage the pipes.

Installing the fan cover



The optionally available fan cover serves to cover the fans and the cabling. All installed fans must be deinstalled for installation. The fan cover is mounted with the same screws provided for fan installation.

Delivery also includes two polished cover plates. These are placed laterally on top of the fan cover so that the screw holes are located directly above each other. Once again, the same screws as for the fan installation are

used here as well. One of the cover plates has recesses for inserting cables. We recommend mounting these on the side of the connection block.

Mounting the feet



With the help of the optionally available feet, the HTF4 can also be operated standing on its side (see illustration). The feet have neodymium magnets and therefore do not need to be screwed on.

If you want to use an optional fan cover, you have to bend the two tongues on the side of the cover inwards approx. 3-5mm.

Case/wall installation



The HTF4 can be mounted to a straight surface via an optionally available case (external radiator case 140mm) or simply put down flat. The case consists of 4 individual parts. These are screwed onto the borings on the radiator for the fans with the enclosed M3x 5mm screws.

The fans should preferably be mounted on the top. With the case, fans can however also be installed on the bottom. To do so, merely screw the fans between the radiator and the case. Only M3x 30mm screws may be used for this purpose.

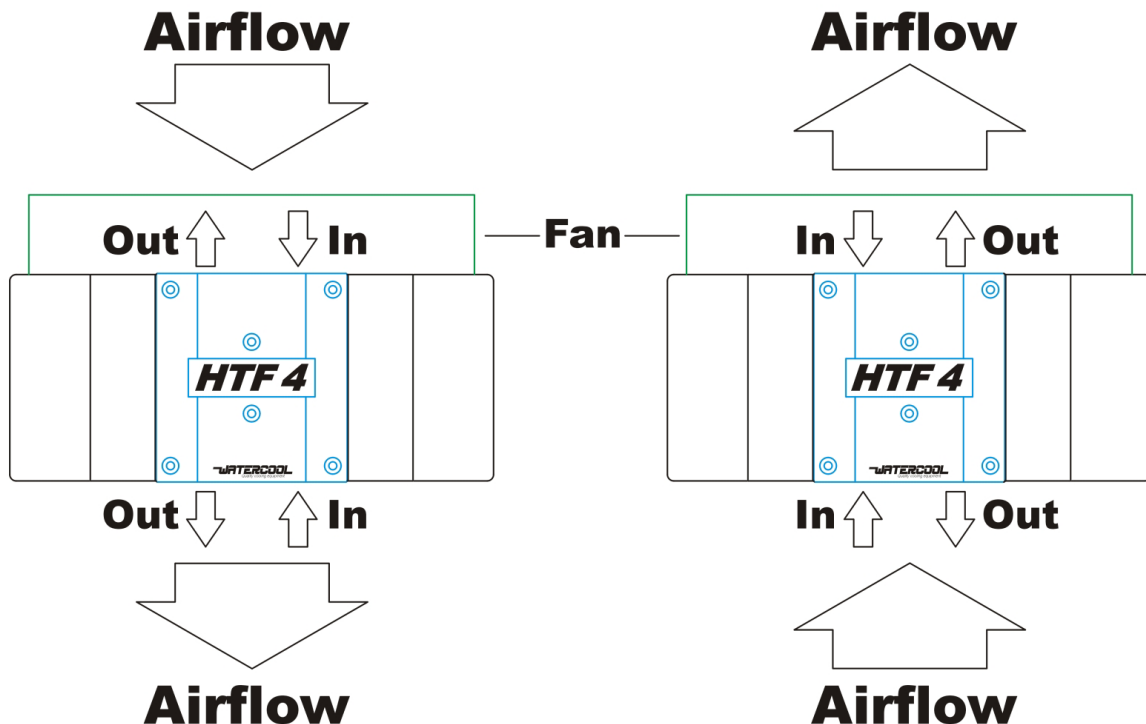
Attention: Only screws with a max. thread length of 8mm may be screwed into the M4 threads of the HTF4.

Installation of fans

The fans are attached to the radiator with the enclosed screws. The HTF4 includes 30mm long screws with a total height of 25mm.

The pipes were installed in line with a new concept for the first time in the HTF4. These are now streamed through parallel to the fan. This enables a more even heat distribution in the radiator. The fans and connections can be positioned at wish. In order to draw the last power reserves of the radiator, the fans and connections should be installed in line with the following diagram. We recommend installing the fan so that it blows (see left variant in the diagram).

If you want to install fans on both sides, you have to install the additional fans on the opposite site in line with the push-pull principle to follow the air stream.



Notice: You only need 2 connections for the HTF4. It is not of relevance whether both are mounted on the top or the bottom. It is also possible to install one on the top and one on the bottom. The connections should however be used as input and output following the previously selected variant in the diagram.

Ventilation tips

Air in the system can have a negative effect on the cooling power. This is why it makes sense to air the system after a new installation or changing the circuit. Please note that air always tends to accumulate in the highest spot. This is often the radiator. But the air also behaves identical in the radiator itself. There are different methods for successful airing. The ideal case is if the compensation container (CC) is located in the highest spot. When airing with a closed circuit (CC closed), you can also put the system on its head and/or swing it back and forth accordingly so that the air travels to the CC. Here please note that other hardware may not be able to handle such a treatment and may become damaged. We will not assume any liability for possible damage. In addition, you can also use the two unused connection threads for filling or airing depending on the installation position of the radiator.

High-quality 12V pumps (e.g. our Watercool Eheim 12V) have a comfortable airing mode. If this is turned on, the pumps air the system independently. For further information see the corresponding operating manuals.

Installation and leak test

After installation, a check and test run must be performed!

A leak test should be performed while the computer is turned off. The hardware may not be activated during the test run!

Check all hose connections.

General information

We recommend using demineralised or deionised water (distilled water) as cooling medium. To prevent the build-up of algae, use common citric acid, this reliably prevents the spread of algae.

Despite modern production methods, contamination may remain in the radiator due to production reasons. We therefore recommend rinsing it with clear water prior to first use.

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