



## TTM FiltrX® C125

System filter that removes magnetite  
Installation, operating and maintenance instructions



Strong magnetic field



Can affect pacemaker/ICD

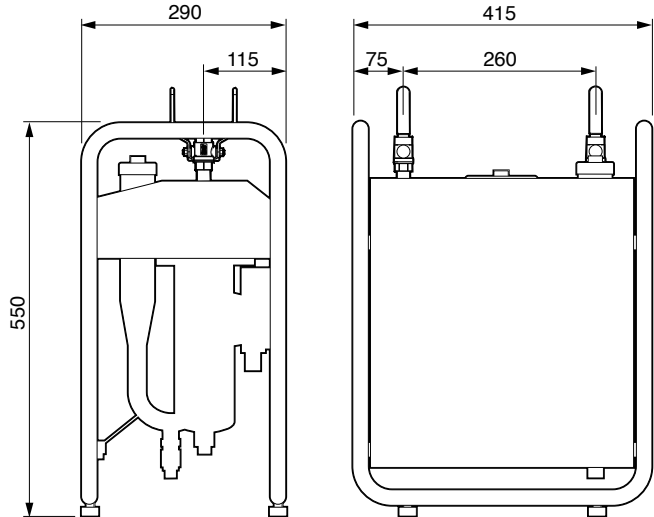


Risk of pinching

Also be aware that the magnet may interfere with electronic equipment and pacemakers.

## Technical data

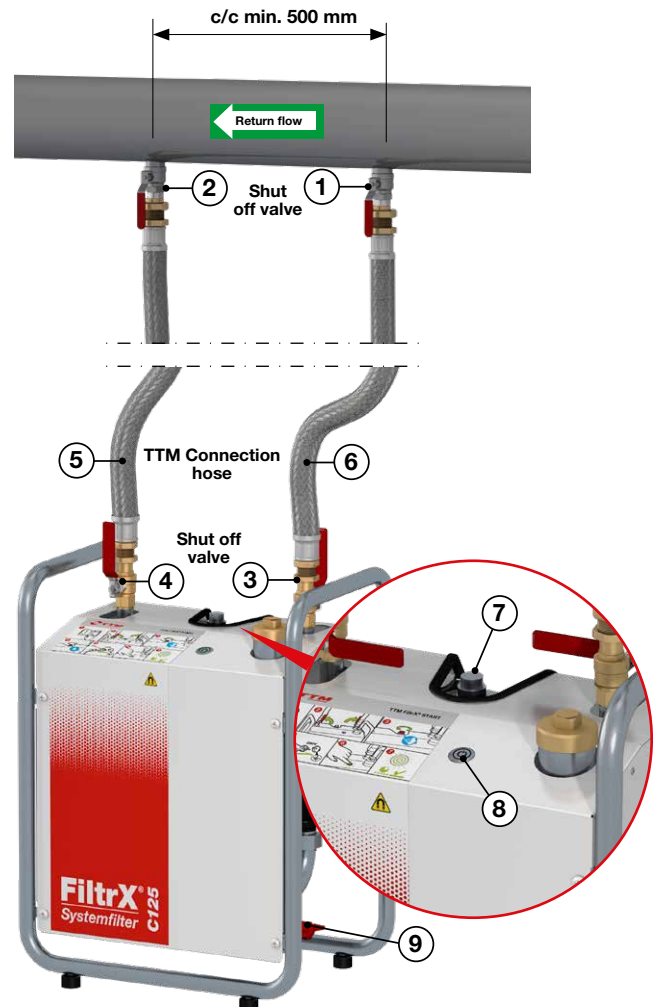
System filter	<b>TTM FiltrX® C125</b>
Article number	519195
System pressure standard, total 10 bar pressure at the connection point, max.	7 bar
Width x length x height (mm)	415 x 290 x 550
Medium temperature	0 – +60 °C
Pressure class	PN 10
Permissible liquids	Water, glycol (40%), demineralized water
Connection dimension	R15 external thread
Magnetic insert	Ø25 x 200mm
Magnetic strength	12000GS
Power	1 ~ 230 V, 50 Hz
Rated power	0,055 kW
Voltage	1 ~ 230V, 50Hz, plug
Rated current	0,45 A
Protection class	IP44
Weight	11 kg



## Installation

TTM FiltrX® C125 is connected with two steel-braided TTM connection hoses on the system's return line. Two bifurcations with ball valves, featuring an external R15 connection, should be installed on the underside of the return line with a minimum distance of 500 mm between them. The inlet is installed first, in accordance with the flow direction. The connections on the TTM FiltrX® are external R15.

- Close the four drain valves **(1, 2, 3, and 4)**.
- Connect a steel-braided TTM connection hose **(6)** from the first burcation **(1)** to the inlet **(3)**.
- Connect a steel-braided TTM connection hose **(5)** from the second burcation **(2)** to the outlet **(4)**.
- Close the drain valve **(9)** and ensure that the pump is set to maximum power with constant speed.
- Open the four shut-off valves **(1, 2, 3, and 4)**.
- Open the air vent **(7)** and wait until all the air in the filter housing has been evacuated. Then, tighten the air vent by hand.
- Plug the power cord into an outlet and start the system filter by pressing the power switch **(8)** and wait for a solid green light.
- Regularly check the operation indicator **(8)** and replace the filter cartridge as needed. Also, regularly check the magnet rod to ensure it's not covered with magnetite (see the "Maintenance" chapter). The maintenance intervals depend on the system size and the amount of particles in the fluid.



## Maintenance / filter replacement



**When installing the TTM FiltrX®, the operation indicator should be checked regularly. We recommend inspecting the filter cartridge and magnet rod after just a few days in heavily contaminated systems. When performing maintenance, always unplug the system filter from the power outlet, close the shut-off valves, and wear rubber gloves.**

### Indication during start-up and operation



**Flashing green light**  
 TTM FiltrX® is in start-up mode.



**Solid green light**  
 TTM FiltrX® is in operation.



**Flashing yellow light**  
 The filter has exceeded 75% of its capacity. It is recommended to replace the filter cartridge.



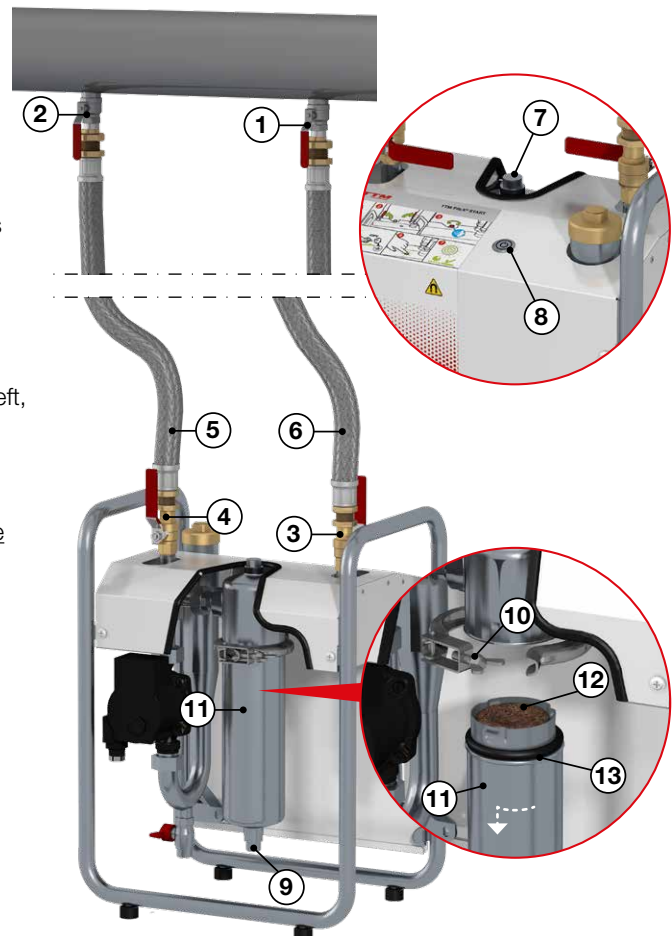
**Solid red light**  
 The filter is completely full. Replace the filter cartridge. The pump has been shut off to prevent overheating.



**Flashing red light**  
 One of the unit's sensors is giving an error indication. Contact your installer or TTM for further troubleshooting.

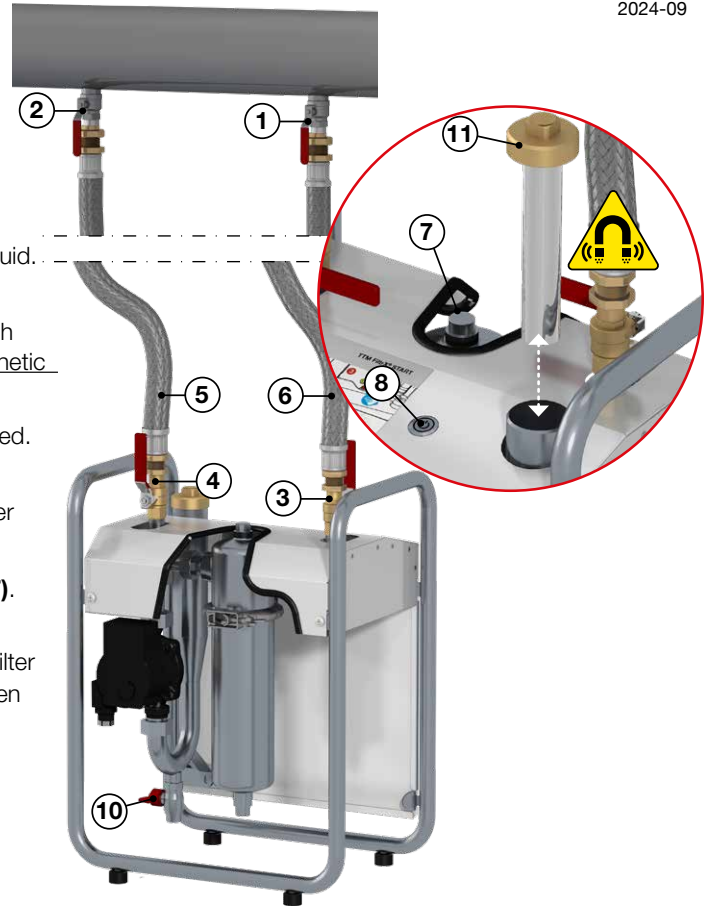
### Filter cartridge replacement

- Turn off the TTM FiltrX® system filter by pressing the power switch **(8)** and then unplugging it from the wall outlet.
- Close the shut-off valves **(3 and 4)**.
- Drain 0.5 - 1 liter of system fluid from the connection hoses by first opening the air vent **(7)** and then opening the drain valve **(9)**. Then close the drain valve **(9)** by hand to ensure a tight seal.
- Loosen the clamp ring **(10)** that holds the filter housing in place, rotate the lower part of the filter housing **(11)** to the left, and then pull it downwards to remove it.
- Remove the used filter cartridge **(12)**. Empty and clean the filter housing. Insert a new filter cartridge into the filter housing. Dispose of the used filter cartridge as combustible waste.
- Reassemble the filter housing **(11)** and tighten the clamp ring **(10)**. Check that the O-ring **(13)** is not damaged.
- Open the shut-off valves **(3 and 4)** to refill the system filter with system fluid.
- Purge all air from the filter housing through the air vent **(7)**. Then tighten the air vent by hand.
- Plug the power cord into an outlet and start the system filter by pressing the power switch **(8)** and wait for a solid green light.



## Cleaning the Magnet Rod

- Turn off the TTM FiltrX® system filter by pressing the power switch **(8)** and then unplugging it from the wall outlet.
- Close the shut-off valves **(3 and 4)**.
- Open the drain valve **(10)** and drain 0.1 liters of system fluid. Then close the drain valve.
- Open the cover with the magnet rod **(11)** and clean it with a cloth. Be aware that the magnet rod has a strong magnetic field.
- Check that the gasket in the magnet cover is not damaged. Reassemble the magnet rod by hand.
- Open the shut-off valves **(3 and 4)** to refill the system filter with system fluid.
- Purge all air from the filter housing through the air vent **(7)**. Then tighten the air vent by hand.
- Plug the power cord into an outlet and start the system filter by pressing the power switch **(8)** and wait for a solid green light.



## Accessories

### TTM FiltrX® C125 Filter cartridge

Replacement filter to be exchanged when consumed (5µm) ..... **Art.no: 519447**

### TTM Connection hose

TTM Connection hose is a flexible and glycol-resistant hose made of diffusion-resistant material\*. The butyl hose is steel-covered and rated for pressures up to 10 bar.

The connection hose is used to connect the TTM FiltrX® to the HVAC system with a brass traveling nut (DN25) with internal threads at both ends.

*\*) Meets the requirement for diffusion tightness (≤ 0,32 mg/(m<sup>2</sup> · d) at 40°C).*



Article	Quantity	Length	Max. pressure (mm)	Temp. (bar)	Min. bend range (°C)	Inner hose radius (mm)	Art. no. Ø (mm)
1	R15 (G1/2) internal threaded	800	10	-20 – +90	72	12,5	U2012513
1	R15 (G1/2) internal threaded	1500	10	-20 – +90	72	12,5	U2012514
1	R15 (G1/2) internal threaded	2000	10	-20 – +90	72	12,5	U2012515

### TTM Connection hose - Kit

Article	Quantity	Length	Max. pressure (mm)	Temp. (bar)	Min. bend range (°C)	Inner hose radius (mm)	Art. no. Ø (mm)
2	R15 (G1/2) internal threaded	1500	10	-20 – +90	72	12,5	517726