

HRS-PF001, HRS-PF002 Particle Filter Set

Thermo-chiller

Applicable model: HRS Series

Read before using.

Thank you for purchasing SMC's Thermo-chiller. This particle filter set is a set of parts for installing a particle filter into the piping used in the thermo-chiller HRS series. Read and understand the instructions shown below before use.

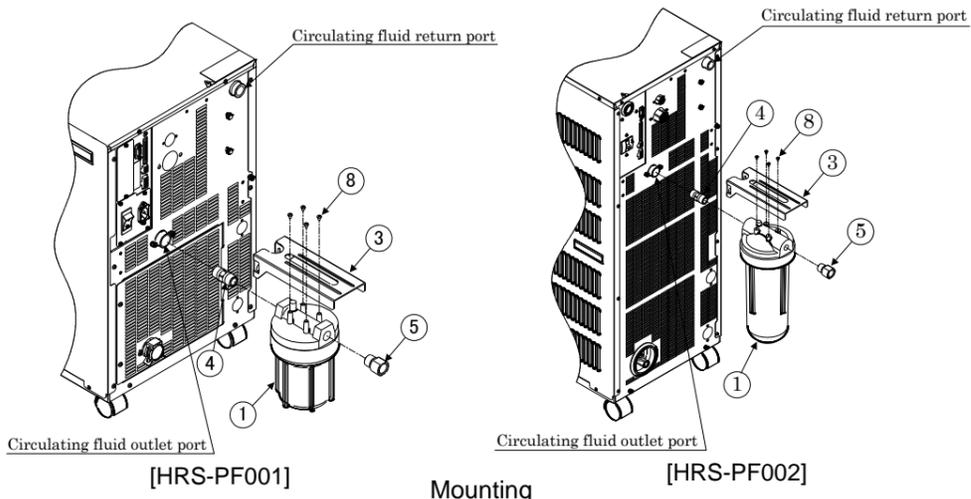
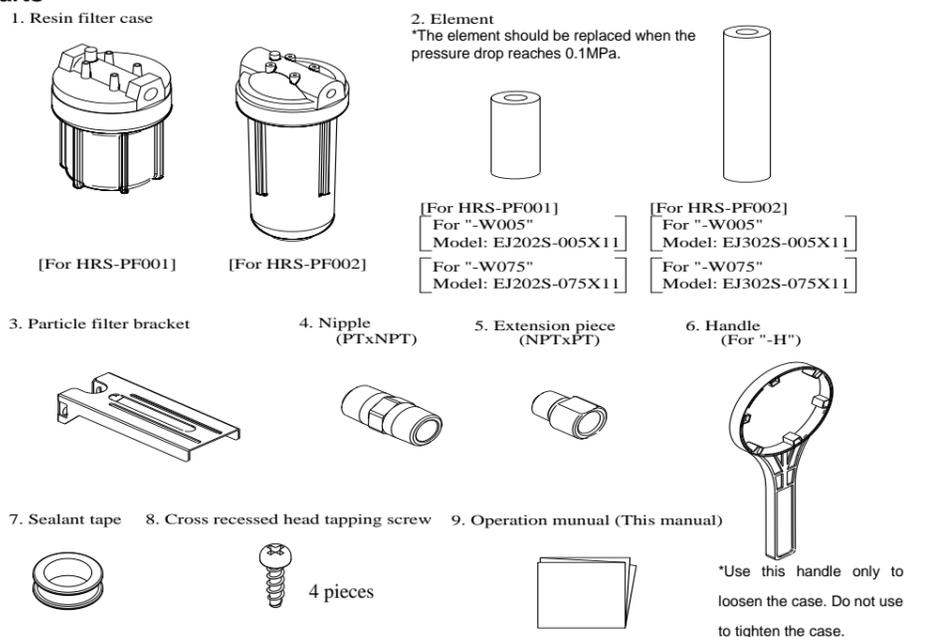
Safety Instructions

Safety first, only trained personnel who has knowledge of general machinery and equipment can perform the installation of this product. Ensure this manual and the Operation Manuals for thermo-chiller are fully understood. Disconnect power from the chiller before performing product installation. Be sure to check that the power supply is shut off. Remove all circulating fluid before performing product installation. Confirm that there is no fluid leakage or condensation after installation.

1. Parts and Accessories

This particle filter set includes the following parts. Please confirm that all of them are present before beginning installation.

Parts



[Materials of wetted parts]

Stainless Steel, PTFE, PP, Acrylonitrile-styrene, NBR (PE: Element)

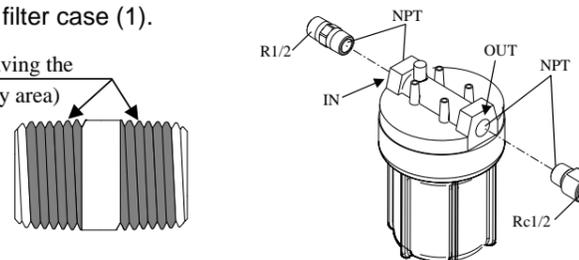
[Applicable models]

<HRS-PF001>	<HRS-PF002>
HRS01*-A*-10-**, HRS01*-W*-10-**	HRS050-A*20-**, HRS050-W*-20-**
HRS01*-A*-20-**, HRS01*-W*-20-**	HRS060-A*20-**, HRS060-W*-20-**
HRS024-A*-20-**, HRS024-W*-20-**	
HRS030-A*-20-**, HRS030-W*-20-**	
HRS040-A*-20-**, HRS040-W*-20-**	
HRS050-A*-20-**, HRS050-W*-20-**	
HRS060-A*-20-**, HRS060-W*-20-**	

2. Mounting

- 1) Confirm that no foreign matter such as dust or dirt is adhered to the connecting port or piping.
- 2) Apply the sealant tape (7) to the nipple (4). Mount the nipple (4) to the inlet of the resin filter case (1).

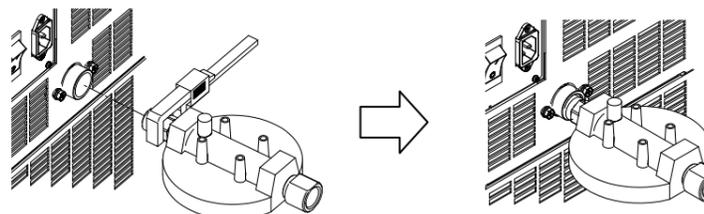
Apply the sealant tape leaving the first thread exposed. (Gray area)



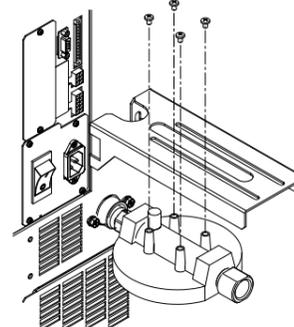
Caution

- Apply the sealant tape on the NPT side of the nipple 4 turns. Screw in it to the filter 4 turns.
- It must not be screwed in too much, it results breakage of the filter and/or leakage.

- 3) Remove the cover of the filter case (1). Mount the nipple (4) (which is mounted in procedure 2) to the circulating fluid outlet at the back of the thermo-chiller



- 4) Loosen the M5 screws at the back of the thermo-chiller panel. Mount the particle filter bracket (3). Using tapping screws (8), mount the particle filter bracket to the resin filter case (1). After mounting the particle filter bracket, tighten the M5 screws on the back of the thermo-chiller panel.



Caution

Use a long screwdriver for tightening the M5 screws.

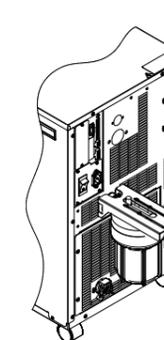
- 5) Insert the element (2) into the resin filter case (1). Mount the resin filter case by hand tighten.



Caution

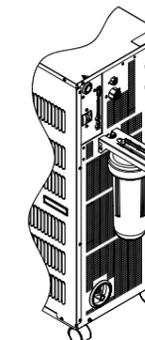
- Mounting of the case should be performed by hand-tighten. When the case is tightened excessively by tools or handle, the case might crack or be damaged.
- Make sure that the case is held manually by hand when removing and mounting the case. If the case is dropped, it may result in cracking or breakage.

- 6) After mounting the fitting, operate the thermo-chiller to check that liquid does not leak.



[HRS-PF001]

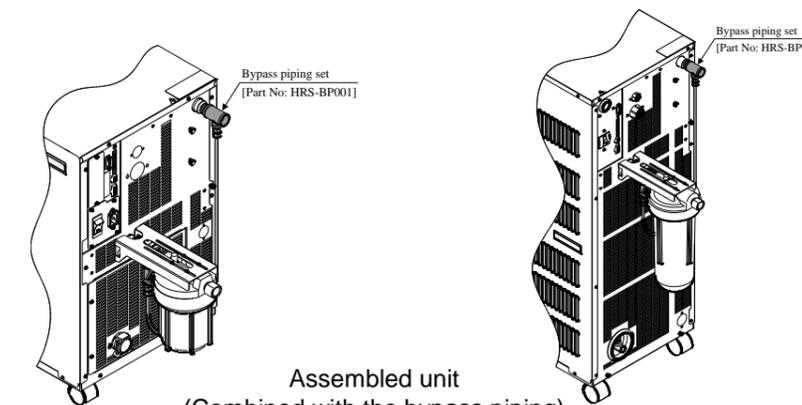
Assembled unit



[HRS-PF002]

3. Related products

Bypass piping set [Part No: HRS-BP001]



Caution

Use in combination with the DI Filter Set (HRS-DP001) is not possible.

Revision
Rev.G:Oct.2019

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Note: Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.
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