

This manual contains operation and maintenance information for series TWF 2000, 4000, 6000 and related specifications. For customer specific models, there are additional instructions on those data sheets. The pressure filters listed above are intended for the filtering of liquid media.

1. Safety instructions



Prior to operating the filter, operation and maintenance instructions need to be read carefully. Failure to follow these instructions could lead to death, severe injury or property damage. Eaton does not assume liability for any damage that occurs to due misuse of equipment.



Follow the operating conditions specified on each data sheet. Operating outside of these parameters can cause damage to important pressure holding parts and sealing. Pay special attention to excess pressure, temperature range and operating fluid. The compatibility of filter components with the operating fluid should always be considered before operation.



Always wear safety goggles and gloves when working on the filter. Under working conditions, the filter housing is pressurized. Do not try to loosen or remove any part of the filter or the filter housing during operation. The operating fluid could escape at high pressure and high temperatures. This does not apply to the offline vessel that is not under operation. Leaking operating fluid can cause injury and burns. Do not open the filter housing until you make sure it is not pressurized. The filter surface may be hot and cause burns. When changing the filter, check the operating temperature before touching any surface during operation. If you come into contact with the operating fluid, please follow the safety instructions provided by the fluid manufacturer.

To ensure proper fit and function, only use Eaton spare parts.

2. Installation

The filter is supplied and delivered ready to be installed. The mounting position of the filter is vertical. The filter has to be fitted with fastening screws in size and amount according to the corresponding fastening bore holes of the filter housings / filter connection. The filter has to be mounted with minimum tensile forces on the filter housing.

During installation ensure that:

- No dirt and no impurities of foreign fluids penetrate the filter.
- Connected to system according data sheet, note flow direction
- The pipe system has to be free of tension while connected to the filter
- Ensure the filter element is accessible for service and change out.

Clogging indicators should be installed according to the instructions on the unit specific data sheet and the instructions in this manual.

3. Commissioning

Ensure the filter installation is complete and the system is clean before commissioning. Follow these instructions to purge the filter before commissioning the system:

1. Before commissioning, ensure that the filter element and seals are clean and properly installed
2. Open the air bleed screws or connections. Connect tubes that lead to a drain pan
3. Allow the operating fluid to drain (reduce volume flow from 10 to 50 l/min or 2.6 to 13.2 GPM) until it is bubble-free and flows out the air bleeding tubes
4. Remove the air bleeding tubes and close the air-bleed bore holes or air-bleed connections

4. Change of elements

Change the filter elements when the unit pressure differential on the clogging indicator reaches the maximum pressure differential specified for each unit on the data sheet. Do not allow the pressure differential to exceed Δp 6 bar (87 psi) before replacing the elements.

Follow these instructions to change the filter element:

1. Switch of operating system, depressurize filter housing
2. Connect the air-bleed and the drain plug and pipe to a collection pan to catch the operating fluid
3. Keep the air bleed and drain plug open until no more operating fluid drains out
4. Loosen the screwed lid(s) on the filter housing (if needed use a 75mm face wrench DIN 3116 Form A)
5. Optical inspection of lid sealing
6. Remove the filter elements
7. By using the *Twinfil* concept place the extension element ring between Fine- and Combifilter
8. Insert the clean filter element into the filter housing, Element is positioned by a centric mounting support
9. Place the filter lid(s) back onto the filter housing and tighten it by hand (if needed use a 75mm face wrench DIN 3116 Form A). Recommended torque 40Nm
10. Close the drain plugs

After following these instructions to change the filter element, the serviced filter is ready for operation.



CAUTION: Ensure the absolute cleanliness of the filter element is maintained during the entire servicing period. No dirt or impurities should penetrate the filter. The new elements should remain packaged until they are installed to prevent contamination. While removing an element from the a recently out of operation filter housing, make sure the element is fully discharged from any voltage caused by static charging during operation with certain fluids
Do not damage element seals during servicing. All sealing have to be checked on a regular basis to avoid leakage and potential development of an explosive atmosphere. Any damaged seals will need to be replaced. Any damaged seals have to be replaced.
FAILURE TO FOLLOW THIS WARNING COULD LEAD TO DEATH, SEVERE INJURY, OR PROPERTY DAMAGE.

5. Pressure difference measuring

If the filter assembly includes a clogging indicator, the indicator will measure the pressure difference across the filter element. The method of pressure reading varies depending on the type of indicator installed. It can be a visual, visual-electric or electronic reading.

6. Service

For product technical support and service, please contact the local Eaton support team. All locations and contact information are listed below.

Spare parts respectively wearing parts have to be ordered according to the spare part list of the filter data sheet.

North America
44 Apple Street
Tinton Falls, NJ 07724
Toll Free: 800 656-3344
(North America only)
Tel: +1 732 212-4700

China
No. 3, Lane 280,
Linhong Road
Changning District, 200335
Shanghai, P.R. China
Tel: +86 21 5200-0099

Europe/Africa/Middle East
Auf der Heide 2
53947 Nettersheim, Germany
Tel: +49 2486 809-0

Friedensstraße 41
68804 Altlufßheim, Germany
Tel: +49 6205 2094-0

Singapore
4 Loyang Lane #04-01/02
Singapore 508914
Tel: +65 6825-1668

An den Nahewiesen 24
55450 Langenlonsheim, Germany
Tel: +49 6704 204-0

Brazil
Av. Julia Gaioli, 474 – Bonsucesso
07251-500 – Guarulhos, Brazil
Tel: +55 11 2465-8822

**For more information, please
email us at filtration@eaton.com
or visit www.eaton.com/filtration**

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