

# **Braukmann F78TS**

Installation instructions

Einbauanleitung

Instructions d'installation

Руководство по установке

Istruzioni di montaggio

Monteringsvejledningen

Instruksjoner for installasjon



**Fine Filter**

**Feinfilter**

**Filtre fin**

**Фильтр тонкой очистки**

**Filtro a maglia fine**

**Fint filter**

**Finfilter**

## 1 Safety Guidelines

- Follow the installation instructions.
- Use the appliance
  - according to its intended use
  - in good condition
  - with due regard to safety and risk of danger.
- Note that the appliance is exclusively for use in the applications detailed in these installation instructions (see 2 Technical Data). Any other use will not be considered to comply with requirements and would invalidate the warranty.
- Please take note that any assembly, commissioning, servicing and adjustment work may only be carried out by authorized persons.
- Immediately rectify any malfunctions which may influence safety.

## 2 Technical Data

<b>Media</b>	
Medium:	Drinking water
<b>Connections/Sizes</b>	
Flange connection	PN16 acc. to EN 1092-2
Single filter:	DN65 - DN100 DN125 with 2 extension flanges EXF125-A
2 filters parallel:	2 x DN80, 2 x DN100
<b>Pressure values</b>	
Max. operating pressure:	1.5 - 16 bar
Nominal pressure:	PN16
<b>Operating temperatures</b>	
Max. operating temperature medium accord. to EN 1567:	30 °C
Max. operating temperature medium:	65 °C (max. operating pressure 6 bar)
<b>Specifications</b>	
Installation position:	Horizontal, with filter bowl downwards

Note: The filter is constructed for drinking water installations. In case of a process water application the filter has to be proven individually.

## 3 Options

For Options visit [homecomfort.resideo.com/europe](http://homecomfort.resideo.com/europe)

## 4 Assembly

### 4.1 Installation Guidelines

- Install in horizontal pipework with filter bowl downwards
  - This position ensures optimum filter efficiency
- Install shut-off valves

- These filters are armatures which need to be maintained regularly
- Ensure good access
  - Pressure gauge can be read off easily
  - Simplifies maintenance and inspection
- The installation location should be protected against frost
- Related to the EN 806-2 it is recommended to install the filter immediately after the water meter
- In order to avoid flooding, it is recommended to arrange a permanent, professionally dimensioned wastewater connection

### 4.2 Assembly instructions

- Thoroughly flush pipework
- Install filter
  - Note flow direction
  - Install without tension or bending stresses
- Seal in pressure gauges
- Install discharge connection

### 4.3 Discharge of reverse rinsing water



#### CAUTION!

According to EN1717 the space between bottom from discharge connection at the filter and the sewage piping (e.g. drain connection with syphon) has to be 56mm at least.

To do this there are 3 options:

- Discharge into floor drain
- Drain into open container.
- Discharge into drain connector with syphon (min. DN70)

Filter size	Reverse rinsing volume*
DN65 - 100	55 litre

\*at 4 bar inlet pressure and 22 s reverse rinsing duration - operated by actuator or at 4 bar inlet pressure and 3x 3 s rinsing duration - operated by hand.

## 5 Operation



#### CAUTION!

Filter may only be operated with installed discharge connection.

### 5.1 Reverse rinsing

At the latest every 6 months, reverse rinsing should be carried out according to EN 806-5. Our recommendation at least every 2 months.



Red pointer integrated into the view window of one of the pressure gauges for setting the next reverse rinsing

Date for next reverse rinsing can be set at the memory indicator of the outlet pressure gauge.

To ensure convenient and regular adherence to the reverse rinsing interval, we recommend installing an automated reverse rinsing system Z11AS.

**i** During reverse rinsing, an inlet pressure of at least 1.5 bar is required.

Filtered water can also be tapped during reverse rinsing.

**i** To avoid extra abrasion, we recommend to perform the backwash at operating inlet pressures below 12 bar.

To ensure the proper backwash function also at continuously higher media temperatures we advise to follow the recommended service intervals. All the internal parts should be checked to recognize possible unusual abrasion.

### 5.1.1 Manual reverse rinsing

**i** A collecting container must be positioned beneath before reverse rinsing if there is not drainage system available.

1. Slowly open the ball valve
  - The patented reverse rinsing system starts
2. Close ball valve again after approx. 3-5 seconds.  
Repeat procedure three times
  - If the filter is extremely dirty, the procedure may have to be repeated additional times

### 5.1.2 Automatic reverse rinsing with the Z11AS

The automated reverse rinsing system Z11AS is available as an accessory. The automated system reliably takes over reverse rinsing of the filter at intervals which can be set between 4 minutes and 3 months.

### 5.1.3 Differential pressure controlled reverse rinsing with the DDS76 and Z11AS

Also available as an accessory is the DDS76 differential pressure switch. It provides fully automatic operation of the reverse rinsing which is controlled by the differential pressure across the filter. It actuates a reverse rinsing cycle when the pressure differential between the inlet and outlet of the filter reaches a predetermined value. If the pressure difference exceeds the preset value, then the Z11AS reverse rinsing actuator is operated via its volt-free input.

## 6 Maintenance

**i** In order to comply with EN 806-5, water fixtures must be inspected and serviced on an annual basis.

As all maintenance work must be carried out by an installation company, it is recommended that a servicing contract should be taken out.

In accordance with EN 806-5, the following measures must be taken:

### 6.1 Inspection

**i** An increased differential pressure between inlet and outlet pressure gauge indicates a highly contaminated filter.

- The filter must be cleaned by reverse rinsing regularly, at least every 6 months. (acc. to EN 806-5)  
Our recommendation at least every 2 months!
- Non-compliance can lead to the filter becoming blocked. This results in a drop in pressure and decreased water flow
- The filter meshes are made of stainless steel. A red coating as a consequence of rust from the pipelines has no influence on function or the way the filter works

**i** Do not forget to do a visual check of the ball valve. Replace it if it is dripping!

### 6.2 Maintenance

#### 6.2.1 Replace filter insert

1. Close shut-off valve on inlet
2. Release pressure on outlet side (e.g. through water tap)
3. Close shut-off valve on outlet
4. Unscrew filter bowl
5. Remove filter insert
6. Insert new filter insert
  - Put on the O-ring
7. Put new O-ring on filter bowl
8. Screw filter bowl in place
9. Slowly open shut-off valve on inlet
10. Slowly open shut-off valve on outlet

#### 6.2.2 Replace filter mesh

1. Close shut-off valve on inlet
2. Release pressure on outlet side (e.g. through water tap)
3. Close shut-off valve on outlet
4. Unscrew filter bowl
5. Remove filter insert
6. Dismount filter insert
7. Replace filter mesh
8. Mount the filter insert
9. Put filter insert into filter bowl
10. Put new O-ring on filter bowl
11. Screw filter bowl in place
12. Slowly open shut-off valve on inlet
13. Slowly open shut-off valve on outlet

### 6.2.3 Replace ball valve

1. Close shut-off valve on inlet
2. Release pressure on outlet side (e.g. through water tap)
3. Close shut-off valve on outlet
4. Unscrew discharge connection
5. Remove ball valve
6. Screw in new ball valve
7. Screw in discharge connection
8. Slowly open shut-off valve on inlet
9. Slowly open shut-off valve on outlet

## 7 Disposal

Observe the local requirements regarding correct waste recycling/disposal!

## 8 Troubleshooting

Problem	Cause	Remedy
Too little or no water pressure	Shut-off valves upstream or downstream from filter not fully open	Open the shut-off valves fully
	Filter mesh dirty	Reverse rinsing
	Filter is not fitted in flow direction	Fit filter in flow direction
Increased differential pressure between inlet and outlet pressure gauge	Reverse rinsing interval is exceeded	Reverse rinsing
	High degree of dirt in the water	Reverse rinsing Decrease reverse rinsing interval Replace filter sieve

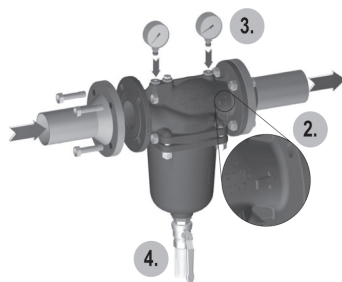
## 9 Spare Parts

For Spare Parts visit [homecomfort.resideo.com/europe](http://homecomfort.resideo.com/europe)

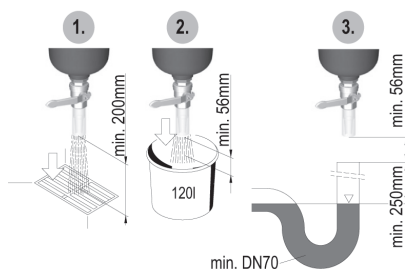
## 10 Accessories

For Accessories visit [homecomfort.resideo.com/europe](http://homecomfort.resideo.com/europe)

## 4.2



## 4.3



## 6.2.1



## 6.2.2

