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resideo FK74CS-1-2LFAA Filters and Filter Combinations

Safety Guidelines

1. Follow the installation instructions
2. Use the appliance
    - according to its intended use
    - in good condition
    - with due regard to safety and risk of danger
3. 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 the requirements and would invalidate the warranty
4. Please take note that any assembly, commissioning, servicing and adjustment work may only be carried out by authorized persons.
5. Immediately rectify any malfunctions that may influence safety

Technical Data

F74CS/FN74CS

Media	
Medium:	Drinking water
Connections/Sizes	
Connection sizes:	1/2″ – 2″ (with rotatable connector piece)
Pressure values	
Operating pressure range:	1.5 – 16 bar
Max. inlet pressure:	16 bar (up to 12 bar long-term*)
Operating temperatures	

Operating temperature range medium acc ord. to EN 1567:	5 – 30 °C
Specifications	
Installation position:	Horizontal or vertical, with filter bowl downwards

* For maintaining the measuring accuracy of the manometer, a continuous maximum pressure load of 12 bar is permitted.

FK74CS/FKN74CS

Media	
Medium:	Drinking water
Connections/Sizes	
Connection sizes:	1/2″ – 2″ (with rotatable connector piece)
Pressure values	
Operating pressure range:	1.5 – 16 bar
Max. inlet pressure:	16 bar (up to 12 bar long*-term)
Outlet pressure:	1.5 – 6 bar

Operating temperatures	
Operating temperature range medium acc ord. to EN 1567:	5 – 30 °C

Specifications	
Installation position:	Horizontal or vertical, with filter bowl dow nwards

* For maintaining the measuring accuracy of the manometer, a continuous maximum pressure load of 12 bar is permitted.

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

Options

For Options visit resideo.com

Assembly

Installation Guidelines

WARNING!
The assembly of the drain connector is mandatory!

- The installation site has to be frost-proof and the protection of the device from chemicals, paints, detergents, solvents and their vapours and environmental influences must be guaranteed
- Install in horizontal or vertical pipework with filter bowl downwards
- This position ensures optimum filter efficiency
- These filters are armatures which need to be maintained regularly
- Ensure good access (consider EN1717 requirements)
  - Pressure gauge can be read off easily
  - Degree of contamination can be easily seen with clear filter bowl
  - Simplifies maintenance and inspection
- It is recommended that a straight section of pipework at least five times the nominal valve size is provided after the filter (according to DIN EN 806-2)

- Fit immediately after water meter
- 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

Assembly instructions

1. Thoroughly flush pipework
2. Install rotatable connector piece
    1. Note flow direction
    2. Install without tension or bending stresses CAUTION!
       When connecting to an existing flange of another make ensure that the inlet flow is through the outer ring of holes. If this is not so, the whole connection piece must be installed the other way round, even if the arrow does not then indicate the actual flow direction.
3. Install filter with sealing to rotatable connector
4. Tighten the connecting nuts (7Nm)
5. Screw in discharge connection

Discharge of reverse rinsing water

The reverse rinsing water must be routed to the drain channel in such a way that no backwater can occur (consider EN1717 requirements).
To do this there are 3 options:

- Direct connection:
- Connector DN 50/70 as well as the necessary pipes and siphon (3 elbows 90°) in DN 70.
- Discharge into floor drain
- Drain into open container.

Filter size Reverse rinsing volume*

- 1/2″ and 3/4″ 12 litres
- 1″ and 1 1/4″ 15 litres

- 1 1/2″ and 2″ 18 litres
- *at 4 bar inlet pressure and 3 x 3 seconds reverse rinsing duration

Start-up

Setting outlet pressure (FK74CS/ FKN74CS only)

Set outlet pressure min. 1 bar under inlet pressure.

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

   Connection sizes 1/2″ – 11/4″

Slacken tension in the compression spring

1. Lift adjustment handle
2. Turn adjustment handle counter-clockwise (-) until it does not move any more.

   Connection sizes 11/2″ – 2″

Slacken tension in compression spring

1. Loosen slotted screw

   Do not remove slotted screw
2. Turn adjustment handle counter clockwise (-) until it does not move any more
3. Slowly open shut-off valve on inlet
4. Turn adjuster knob until the manometer shows the desired value
5. Turn clockwise = increase pressure on outlet side
6. Turn counter-clockwise = reduce pressure on outlet side

Connection sizes 1/2″ – 11/4″

1. Push the adjuster knob down and latch it in to activate the locking mechanism

   Connection sizes 11/2″ – 2″
2. Fasten the slotted screw to lock the mechanism . Slowly open shut-off valve on outlet

Reverse rinsing

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

The filter must be cleaned by reverse rinsing at the latest every 6 months! (According to EN 806-5.) Producer recommendation at least every 2 months!
To ensure convenient and regular adherence to the reverse rinsing interval, we recommend installing an automated reverse rinsing system.

(Connection sizes:

1/2″ – 11/4″RR74
11/2″ – 2″ RR11S

CAUTION!
Filtered water can also be tapped during reverse rinsing.

If reverse rinsing water is not to be discharged via a direct connection, a collecting container must be positioned beneath before reverse rinsing.

1. Open ball valve by turning the reverse rinsing handle to the stop
    - Handle must be upright
    - The patented reverse rinsing system starts
2. Close ball valve again after approx. 3 seconds. Repeat procedure three times
    - If the filter is extremely dirty, the procedure may have to be repeated additional times

With aid of the memory ring, the next deadline for manual reverse rinsing can be booked.

Maintenance

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:

Inspection

Pressure reducing valve (FK74CS/ FKN74CS only)

1. Close shut-off valve on outlet
2. Check outlet pressure using a pressure meter when there is zero through-flow
    - If the pressure is increasing slowly, the valve may be dirty or defective. In this instance, carry out servicing and cleaning (See 6.2 Maintenance)
3. Slowly open shut-off valve on outlet

Filter

- The filter must be cleaned by reverse rinsing at the latest every 6 months! (According to EN 806-5.) Producer 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 Do not forget the visual check of the ball valve. Exchange the KF11SB filter bowl in case of drop formation!

(Connection sizes:

1/2″ – 11/4″ KF74CS-1LFA
11/2″ – 2″ KF11S-11/2LFA

Maintenance
If necessary, the outside surface of the combination can be cleaned.
Use only cold, clear drinking water to clean the surfaces! Any other cleansers cause damage to the plastic components!

Pressure reducing valve (FK74CS

FKN74CS only)

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

CAUTION!

There is a spring in the spring bonnet. It may cause injuries if the spring is derailing.

Connection sizes 1/2″ – 11/4″

Slacken tension in the compression spring

1. Lift adjustment handle
2. Turn adjustment handle counter clockwise (-) until
   it does not move any more
3. Loosen cover cap with a screw driver
4. Pull out the adjustment handle
   Connection sizes 11/2″ – 2″
   Slacken tension in compression spring
5. Loosen slotted screw
   Do not remove the slotted screw
6. Turn the adjustment handle counter-clockwise (-) until
   it does not move any more
   Do not turn in too far!

Unscrew spring bonnet

Use plastic wrench

(Connection sizes:

Replacement of the 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
   Use plastic wrench

ZR74CS (1/2″ – 11/4″)

ZR10K-11/2 (11/2″ – 2″)

5. Remove old filter insert and replace by a new one!
6. Put O-ring on filter bowl
7. Screw in filter bowl hand-tight (without tools)
8. Slowly open shut-off valve on inlet
9. Slowly open shut-off valve on outlet

Disposal

Observe the local requirements regarding correct waste recycling/disposal!

Troubleshooting

F74CS/FN74CS

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
	Not fitted in flow direction	Fit filter in flow direction

FK74CS/FKN74CS

Problem	Cause	Remedy
Water is escaping from the spring bonnet	Diaphragm in valve insert is faulty	Replace valve insert

Too little or no water pressure	Shut-off valves upstream or downstream from filter not fully open	Open the shut-off valves fully
	Pressure reducing valve is not set to the desired outlet pressure	Set outlet pressure
	Filter mesh dirty	Reverse rinsing
	Not fitted in flow direction	Fit filter in flow direction (note direction of arrow on housing)
The outlet pressure set does not remain constant	Filter mesh dirty	Reverse rinsing
	Valve insert, sealing ring or edge of nozzle is contaminated or worn	Replace valve insert
	Rising pressure on outlet (e.g. in boiler)	Check check valve, safety group etc.

Spare Parts

For Spare Parts visit resideo.com

Accessories

For Accessories, visit resideo.com

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- Pittway Sàrl, Z.A., La Pièce 6,
- 1180 Rolle, Switzerland
- by its authorised
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Documents / Resources

	resideo FK74CS-1-2LFAA Filters and Filter Combinations [pdf] Installation Guide FK74CS-1-2LFAA, FX74CS-II-MU1H1186GE23R0425, FK74CS-1-2LFAA Filters and Filter Combinations, FK74CS-1-2LFAA, Filters and Filter Combinations, Filter Combinations, Combinations

References

- User Manual

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Combinations, Filter Combinations, Filters and Filter Combinations, FK74CS-1-2LFAA, FK74CS-1-2LFAA Filters and Filter Combinations, FX74CS-II-MU1H1186GE23R0425, resideo

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