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Component overview

1 Filter head with wall mounting bracket
2 Filter cartridge (F2300/F3300/F5300)
3 Flush pipe connection
4 Flush valve
5 Bypass setting
6 Inlet
7 Outlet
8 Insertion marker
9 Filter cartridge marker
10 Operation marker
1 General information / Use

The JURA water-filtering system was designed especially for JURA coffee machines. It has a modular structure and comprises of an innovative multi-functional filter head with a family of compatible filter cartridges which offer various performance settings. The system family was designed especially for specific applications in the vending sector. Thanks to their compact design, the filter systems can be installed and operated almost anywhere – be that in a vertical or horizontal position, free-standing or mounted.

The filter cartridges are available in three sizes:
- F2300
- F3300
- F5300

The filter head with wall mounting bracket can be used for all three sizes.

2 Specific information

2.1 Personnel

The filter system may only be installed and serviced by trained and authorised personnel.

2.2 Disclaimer

All rights reserved. The printed information is the latest information at the time of publication and is not considered to be binding. Although the utmost care was taken when writing these instructions for use, errors or incomplete information cannot be ruled out. We do not accept any responsibility for the validity, correctness and completeness of the information provided. The tables and images contained in these instructions for use are to be used for information purposes only.

JURA Elektroapparate AG does not accept liability for any damage including secondary damage which may result from incorrect installation or improper use of the products. JURA Elektroapparate AG does not accept liability for damage resulting from the use of components of other manufacturers.

2.3 Safety information

- Only supply the system with cold water of the same quality as potable water.
- Store the components in a dry place within a temperature range of -15 to +45 °C.
- Do not use water that is microbiologically contaminated or that is of unknown microbiological quality without prior sufficient disinfection.
- Only use the system in a location which is protected from frost and direct sunlight.
- The system must not come into contact with chemicals, solvents and other vapours.
- Before commissioning the filter system, the automatic coffee machine connected to the supply must be free of limescale.
- The filter cartridge must not be opened or display any signs of mechanical damage.
- Replace the filter cartridge after a very long period of downtime.
- Replace the filter head with wall mounting bracket after 5 years of operation and at the latest 6 years after its production date.

This also applies to pipes and seals. Pay attention to the date on the production stamp in this case.

- Rinse the system thoroughly after a longer period of downtime or after maintenance has been carried out – see the following table:

<table>
<thead>
<tr>
<th>Filter cartridge</th>
<th>Quantity of rinse water after 1 week of downtime</th>
<th>Quantity of rinse water after 4 weeks of downtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2300</td>
<td>5 l</td>
<td>25 l</td>
</tr>
<tr>
<td>F3300</td>
<td>8 l</td>
<td>40 l</td>
</tr>
<tr>
<td>F5300</td>
<td>12 l</td>
<td>60 l</td>
</tr>
</tbody>
</table>

3 Function

The JURA water-filtering system uses an ion-selective filter medium in the flow to reduce the carbonate hardness of potable water.

The DuoBlend® bypass valve in the filter head can be used to adapt the hardness of the filtered water to the quality of the local potable water and the automatic coffee machine used. We always recommend bypass level 1.

The filter material also forms bonds with heavy metal ions such as lead, copper and cadmium. The integrated active carbon block reduces undesirable cloudiness, organic impurities, odour and taste as well as chlorine residue in the filtrate and bypass water.

4 Installation / setting

4.1 Safety-related installation instructions

- If the system pressure is greater than 8 bar, a pressure reducer must be connected upstream to the water-filtering system.
- A shut-off valve must be installed upstream of the water-filtering system.
- No copper pipes, galvanised or nickel-coated pipes or connectors may be installed between the water-filtering system and the automatic coffee machine.
- All components must be installed according to country-specific guidelines.
- The standard ‘DIN 1988’ must be observed when installing and operating the system.
- Only use original accessory pipes for the JURA water-filtering system as these have a longer thread.
- If the filter cartridge is removed from the filter head without being replaced by a new one, the water supply to the filter head must be shut off.
- Do not connect anything to the flush pipe or flush valve.

4.2 Information on initial installation

- Firstly, identify a suitable place to install the filter system. Note the information provided in chapter 2.
- Before you start installing the system, shut off the water supply and disconnect the automatic coffee machine from the power supply.
- Before installation, check the filter system and the accessories for any damage. Particular attention must be paid when inspecting the O-rings and seals.
4.2.1 Installing the filter head with wall mounting bracket and filter cartridge

The system can be operated in a free-standing position, wall-mounted in a vertical position or horizontally.

- If mounting to a wall: Securely fasten the wall mounting bracket to the wall using suitable screws (not supplied as standard). The dowels and screws must be selected in accordance with the condition of the wall.
- Install the water inlet and outlet pipes at the filter head. When doing so, please note the following points:
  - Note the direction of flow (see markings on the filter head)
  - Max. torque when using genuine CLARIS connection pipes (accessory): 10 Nm
  - Filter heads with 3/8" threaded connections must only use connectors with flat seals. Do not use pipes or adapters with conical screw connections, as they damage the connections and invalidate any warranty claims.
  - Only use screw adapters of a suitable type and appropriate length. When unscrewed, they must not rest axially on the filter head. Unsuitable adapters can damage the connections and invalidate any warranty claims.
- Direct the flush pipe into a suitable container (e.g. bucket) or into a drain and open the flush valve (4).
- Turn on the water supply again.
- Insert the filter cartridge into the filter head. Take note of the insertion marker (8) on the filter head and the marker on the filter cartridge (9).
- Twist the filter cartridge anti-clockwise until the end position is reached. The marker on the filter cartridge should now be in line with the operation marker (10) on the filter head. This vents the system and flushes the filter cartridge (F2300/F3300 > 10 l, F5300 > 15 l).
- Close the flush valve.
  The water-filtering system is now ready for use.
- After replacing the filter cartridge, check all components for leaks. Water must not escape from any point.

4.2.2 Replacing a filter cartridge

- Place a container under the flush pipe. While the filter cartridge is being replaced, the automatic coffee machine and the water supply line are hydraulically disconnected from the filter head and the system depressurises. Minimum quantities of water may therefore escape from the flush pipe due to peaks in pressure.
- Slowly unscrew the used filter cartridge in an anti-clockwise direction. This will unlock it from the filter head and allow it to be removed.
- Direct the flush pipe into a suitable container (e.g. bucket) or into a drain and open the flush valve (4).
- Remove the new filter cartridge from its packaging and check it for damage.
- Insert the filter cartridge into the filter head. Take note of the insertion marker (8) on the filter head and the marker on the filter cartridge (9).
- Twist the filter cartridge anti-clockwise until the end position is reached. The marker on the filter cartridge should now be in line with the operation marker (10) on the filter head. The flow in the filter head is reopened and the system is vented and flushed via the flush system (F2300/F3300 > 10 l, F5300 > 15 l).
- The flush water will be milky or cloudy at first. This is due to the dispersing air and will not take long to clear.
- Pay attention to the position of the label when inserting the filter cartridge. The label should face forwards so that all of the necessary information is visible.
- The operator must check the system for leaks everyday.

4.2.3 Setting the bypass level

- When using the water-filtering system, we always recommend bypass level 1.

4.2.4 Determining the filter capacity

Based on the local carbonate hardness of the mains water and of bypass level 1, use the tables in chapter 8 to identify the resultant filter cartridge capacity.

Please enter the installation date and time of replacement in the corresponding fields (on which it is possible to write in pen) on the filter cartridge label.

5 Service / maintenance

The system will only function safely and reliably if the filter cartridge is replaced on a regular basis. The replacement cycles depend on the carbonate hardness of the potable water, the application and the set bypass level (we always recommend bypass level 1).

We recommend replacing the filter cartridge after 6 months and no later than after 12 months.

The operator must check the system for leaks everyday.

When replacing the filter cartridge, check all parts for impurities and damage. Damaged parts must be replaced and impurities removed.
6 Technical data

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>F2300</th>
<th>F3300</th>
<th>F5300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total system height (in mm)</td>
<td>410</td>
<td>525</td>
<td>525</td>
</tr>
<tr>
<td>Filter cartridge height (in mm)</td>
<td>260</td>
<td>475</td>
<td>475</td>
</tr>
<tr>
<td>Filter cartridge diameter (in mm)</td>
<td>136</td>
<td>136</td>
<td>175</td>
</tr>
<tr>
<td>Minimum distance to ground (in mm)</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Weight (in kg)</td>
<td>3.2</td>
<td>4.3</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Operating data

System pressure (without pressure surges) 2–8 bar
Water temperature / ambient temperature 4–30 °C

7 Order data

<table>
<thead>
<tr>
<th>Article numbers</th>
<th>F2300</th>
<th>F3300</th>
<th>F5300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter cartridge</td>
<td>24099</td>
<td>24100</td>
<td>24101</td>
</tr>
<tr>
<td>Filter head le/ri 3/8&quot;</td>
<td></td>
<td></td>
<td>24098</td>
</tr>
<tr>
<td>CLARIS connection pipe</td>
<td></td>
<td></td>
<td>69539</td>
</tr>
<tr>
<td>3/8&quot; × 3/8&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8 Capacities in litres

* Capacities always refer to bypass level 1.

<table>
<thead>
<tr>
<th>°KH (in °dH)</th>
<th>F2300</th>
<th>F3300</th>
<th>F5300</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5830</td>
<td>8330</td>
<td>13350</td>
</tr>
<tr>
<td>5</td>
<td>4665</td>
<td>6660</td>
<td>10650</td>
</tr>
<tr>
<td>6</td>
<td>3890</td>
<td>5550</td>
<td>8880</td>
</tr>
<tr>
<td>7</td>
<td>3335</td>
<td>4760</td>
<td>7620</td>
</tr>
<tr>
<td>8</td>
<td>2920</td>
<td>4170</td>
<td>6680</td>
</tr>
<tr>
<td>9</td>
<td>2590</td>
<td>3700</td>
<td>5950</td>
</tr>
<tr>
<td>10</td>
<td>2335</td>
<td>3330</td>
<td>5330</td>
</tr>
<tr>
<td>11</td>
<td>2120</td>
<td>3030</td>
<td>4850</td>
</tr>
<tr>
<td>12</td>
<td>1945</td>
<td>2780</td>
<td>4450</td>
</tr>
<tr>
<td>13</td>
<td>1795</td>
<td>2560</td>
<td>4100</td>
</tr>
<tr>
<td>14</td>
<td>1665</td>
<td>2380</td>
<td>3810</td>
</tr>
<tr>
<td>15</td>
<td>1555</td>
<td>2220</td>
<td>3550</td>
</tr>
<tr>
<td>16</td>
<td>1460</td>
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<td>17</td>
<td>1370</td>
<td>1960</td>
<td>3130</td>
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<td>19</td>
<td>1225</td>
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<td>2800</td>
</tr>
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<td>21</td>
<td>1110</td>
<td>1585</td>
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<td>23</td>
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<td>2315</td>
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<td>26</td>
<td>895</td>
<td>1280</td>
<td>2045</td>
</tr>
<tr>
<td>29</td>
<td>800</td>
<td>1145</td>
<td>1830</td>
</tr>
<tr>
<td>33</td>
<td>700</td>
<td>1000</td>
<td>1600</td>
</tr>
<tr>
<td>38</td>
<td>610</td>
<td>875</td>
<td>1400</td>
</tr>
</tbody>
</table>

9 JURA contact details / legal information

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We reserve the right to make technical changes.