



# Reference washer extractor

## Wascator FOM71 CLS

### Features and benefits

- Meets IEC and ISO international standards
- Suitable for testing washing effects of detergents and chemicals and for textile quality control
- Suspended drum construction allows a high extraction force. No foundation required
- Small space between outer/inner drum for efficient use of water and detergent
- Dual water control of volume (weight) and level
- Built in scale for precise volume control, accuracy:
  - volume control +/- 0.2 litre/bath
  - level control +/- 0.8 litre/bath
- Equipped with Clarus Control® - a fully programmable electronic timer
- Frequency controlled motor system for flexibility in programming and precise speed
- Test tap for water samples
- Stainless steel drum assembly, front, side and top panel



*Images shown are a representation of the product only and variations may occur.*

### Main options

- WPM (Wash Program Manager) PC programming kit in Windows
- Extra program memory cards

| Main specifications |             |       |  | Wascator FOM71 CLS |      |
|---------------------|-------------|-------|--|--------------------|------|
| Drum,               | volume      | litre |  |                    | 61   |
|                     | diameter    | ø mm  |  |                    | 520  |
| Extraction, max     |             | rpm   |  |                    | 1100 |
| G-factor, max       |             |       |  |                    | 350  |
| Heating             | electricity | kW    |  |                    | 5.4  |

Certified in accordance with ISO 9001 and ISO 14001 and approved IP 24D.



## Function/subsystem

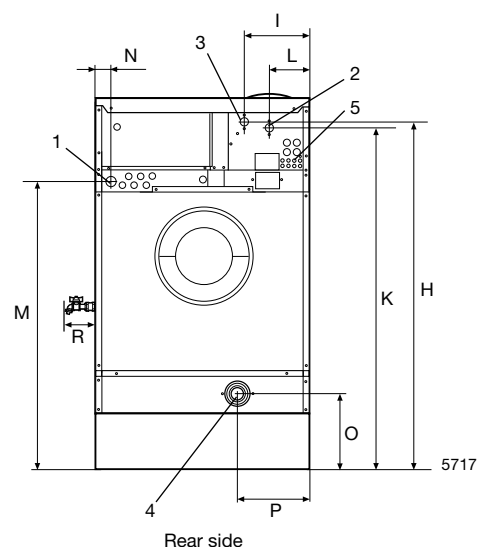
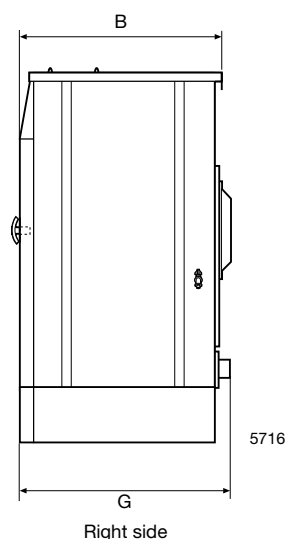
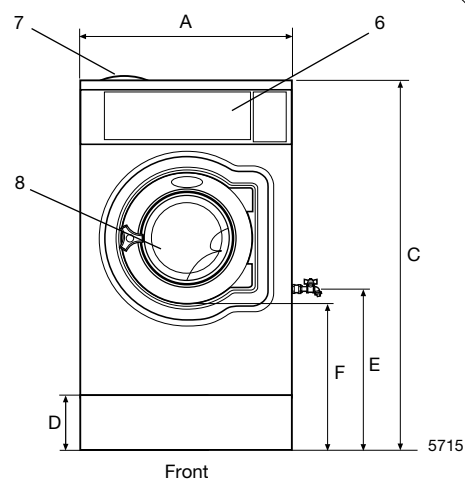
|                                                                                                                                                                                                       |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Ambient conditions</b>                                                                                                                                                                             |                                                                                 |
| The machine shall be able to function during the same ambient conditions as normal washing machines.<br>The functional values with tolerances will be valid if following ambient conditions are kept. |                                                                                 |
| Voltage                                                                                                                                                                                               | Nominal $\pm 2\%$                                                               |
| Frequency                                                                                                                                                                                             | Nominal $\pm 2\%$                                                               |
| Inlet water Cold                                                                                                                                                                                      | $(15 \pm 2) ^\circ\text{C}$                                                     |
| Hot                                                                                                                                                                                                   | Max $(60 \pm 2) ^\circ\text{C}$                                                 |
| Water pressure                                                                                                                                                                                        | $(240 \pm 50) \text{ kPa}$                                                      |
| Ambient temperature                                                                                                                                                                                   | $(20 \pm 5) ^\circ\text{C}$                                                     |
| <b>Inner drum</b>                                                                                                                                                                                     |                                                                                 |
| Diameter                                                                                                                                                                                              | $(520 \pm 1) \text{ mm}$                                                        |
| Depth                                                                                                                                                                                                 | $(315 \pm 1) \text{ mm}$                                                        |
| Volume                                                                                                                                                                                                | 61 l                                                                            |
| Lifting vanes: Number                                                                                                                                                                                 | 3                                                                               |
| Height                                                                                                                                                                                                | 53 mm                                                                           |
| Radius                                                                                                                                                                                                | 17 mm                                                                           |
| Base width                                                                                                                                                                                            | 65 mm                                                                           |
| Perforation: Diameter                                                                                                                                                                                 | 5 mm                                                                            |
| Depth of countersink                                                                                                                                                                                  | 2.5 mm                                                                          |
| Total hole area                                                                                                                                                                                       | 600 cm <sup>2</sup>                                                             |
| Material: Stainless steel                                                                                                                                                                             | 2333 (SS 18/8)                                                                  |
| <b>Outer drum</b>                                                                                                                                                                                     |                                                                                 |
| Diameter                                                                                                                                                                                              | 554 mm                                                                          |
| Sump                                                                                                                                                                                                  | ~ $(1300 \pm 25) \text{ ml}$                                                    |
| Material: Stainless steel                                                                                                                                                                             | 2333 (SS 18/8)                                                                  |
| <b>Door opening</b>                                                                                                                                                                                   |                                                                                 |
| Opening diameter                                                                                                                                                                                      | 310 mm                                                                          |
| <b>Cabinet</b>                                                                                                                                                                                        |                                                                                 |
| Stainless steel                                                                                                                                                                                       | 2333 (SS 18/8)                                                                  |
| <b>Drum speed</b>                                                                                                                                                                                     |                                                                                 |
| Washing speed: Programmable                                                                                                                                                                           | $(20 - 59 \pm 1) \text{ RPM}$                                                   |
| Extraction: Programmable                                                                                                                                                                              | $(200 - 1100 \pm 20) \text{ RPM}$                                               |
| <b>Reversing rythm</b>                                                                                                                                                                                |                                                                                 |
| Programmable                                                                                                                                                                                          | $(0 - 250 \pm 0.1) = \text{sec.}$<br>(Tolerance area refers to timer intervals) |
| <b>Water level</b>                                                                                                                                                                                    |                                                                                 |
| Weight sensing                                                                                                                                                                                        |                                                                                 |
| Repeatability                                                                                                                                                                                         | $\pm 0.1 \text{ kg/bath}$                                                       |
| Stepsize                                                                                                                                                                                              | 0.05kg                                                                          |
| Dosing accuracy weight control                                                                                                                                                                        | $\pm 0.2 \text{ kg/bath}$                                                       |
| Level sensing:                                                                                                                                                                                        |                                                                                 |
| Repeatability                                                                                                                                                                                         | $\pm 5 \text{ mm}$                                                              |
| Stepsize                                                                                                                                                                                              | 3 mm                                                                            |
| Dosing accuracy level control                                                                                                                                                                         | $\pm 0.8 \text{ litre/bath}$                                                    |
| <b>Thermostat</b>                                                                                                                                                                                     |                                                                                 |
| Continuos variable in each wash sequence                                                                                                                                                              | Yes                                                                             |
| Selectable interval                                                                                                                                                                                   | $(4 - 97) ^\circ\text{C}$                                                       |
| Programming steps                                                                                                                                                                                     | 1 $^\circ\text{C}$                                                              |
| Switch off temperature accuracy in Interval 30-97 $^\circ\text{C}$                                                                                                                                    | $\pm 1 ^\circ\text{C}$                                                          |
| Interval switch off temperature – switch on temperature                                                                                                                                               | 4 $^\circ\text{C}$                                                              |



Thinking of you  
**Electrolux**

| Electrical connections*        |                           |       | Wascator FOM71 CLS |                       |
|--------------------------------|---------------------------|-------|--------------------|-----------------------|
| Heating                        | Voltage                   |       |                    |                       |
| El.                            | 230V 3AC 50 Hz            | kW(A) | 5.7(16)            |                       |
|                                | 400-415V 3N AC 50 Hz      | kW(A) | 5.7(10)            |                       |
|                                | 415V 3N AC 50 Hz          | kW(A) | 5.7(10)            |                       |
| Water and steam connection     |                           |       |                    |                       |
| Water valves                   | DN                        |       | 20                 |                       |
| Water pressure                 | kPa                       |       | 150-400            |                       |
| Capacity at 300 kPa            | l/min                     |       | 20                 |                       |
| Drain valve                    | ø mm                      |       | 50/75              |                       |
| Draining capacity              | l/min                     |       | 150                |                       |
| Liquid detergent supplies      |                           |       | 4                  |                       |
| Floor requirements             |                           |       |                    |                       |
| Frequency of the dynamic force | Hz                        |       | 18.3               |                       |
| Floor load at max extraction   | kN                        |       | 1.6 ± 0.5          |                       |
| Sound levels                   |                           |       |                    |                       |
| Airborne sound level           | dB(A)                     |       | 71                 |                       |
| Shipping data                  |                           |       |                    |                       |
| Weight                         | net, kg                   |       | 195                |                       |
|                                | crated, kg                |       | 260                |                       |
| Shipping volume                | m <sup>3</sup>            |       | 0.89               |                       |
| Accessories                    |                           |       |                    |                       |
| Hose connection kit for water  |                           |       | x                  |                       |
| Dimensions in mm               |                           |       |                    |                       |
| A                              | Width                     |       | 720                |                       |
| B                              | Depth                     |       | 690                |                       |
| C                              | Height                    |       | 1315               |                       |
| D                              |                           |       | 200                |                       |
| E                              |                           |       | 750                |                       |
| F                              |                           |       | 555                |                       |
| G                              |                           |       | 720                |                       |
| H                              |                           |       | 1230               |                       |
| I                              |                           |       | 220                |                       |
| K                              |                           |       | 1010               |                       |
| L                              |                           |       | 135                |                       |
| M                              |                           |       | 825                |                       |
| N                              |                           |       | 45                 |                       |
| O                              |                           |       | 300                |                       |
| P                              |                           |       | 240                |                       |
| R                              |                           |       | 135                |                       |
| 1                              | Electrical connection     |       | 6                  | Control panel         |
| 2                              | Cold water                |       | 7                  | Detergent compartment |
| 3                              | Hot water                 |       | 8                  | Door opening ø 310 mm |
| 4                              | Drain                     |       |                    |                       |
| 5                              | Liquid supply connections |       |                    |                       |

\* Other voltages available, see installation manual.





|                                                                               |                                   |
|-------------------------------------------------------------------------------|-----------------------------------|
| <b>Detergent compartment</b>                                                  |                                   |
| Number of compartments                                                        | 4                                 |
| Number of programmable liquid detergents                                      | 4                                 |
| <b>Wash programs</b>                                                          |                                   |
| Fully programmable wash programs                                              | Clarus                            |
| Memory cards for IEC 60456, ISO 6330, M&S and other can be ordered separately | IEC 60456                         |
| <b>Memory cards</b>                                                           | <b>Product number/Part number</b> |
| Kit consisting of four empty memory cards:                                    | 438 9537-01                       |
| ISO6330/1984 (locked card)                                                    | 988 9162-20                       |
| ISO6330/1984 (open card)                                                      | 988 9162-21                       |
| ISO6330/2000 (locked card)                                                    | 988 9162-22                       |
| ISO6330/2000 (open card)                                                      | 988 9162-23                       |
| ISO6330/2012 (locked card)                                                    | 988 9162-55                       |
| ISO6330/2012 (open card)                                                      | 988 9162-56                       |
| IEC 60456 Ed 4 (locked card)                                                  | 988 9162-25                       |
| IEC 60456 Ed 4 (open card)                                                    | 988 9162-26                       |
| IEC 60456 Ed 5 (locked card)                                                  | 988 9162-28                       |
| IEC 60456 Ed 5 (open card)                                                    | 988 9162-29                       |
| EN60456 2005 (locked card)                                                    | 988 9162-45                       |
| EN60456 2005 (open card)                                                      | 988 9162-46                       |
| * Marks & Spencer (locked card)                                               | 988 9162-27                       |
| H&M (locked card)                                                             | 988 9162-47                       |
| ISO3175-4:2003 (locked card)                                                  | 988 9162-59                       |
| ISO 12138:1996 (locked card)                                                  | 438 9537-69                       |
| ISO 10528: 1995 (locked card)                                                 | 438 9537-70                       |
| BS5651: 1989 (locked card)                                                    | 438 9537-84                       |
| HLCC (locked card)                                                            | 438 9537-73                       |
| AS/NZS 2040.1 (locked card)                                                   | 438 9547-06                       |
| ISO 3175-4:2003                                                               | 988 9162-59                       |
| <b>Approvals</b>                                                              |                                   |
| The machine shall have same approvals as normal washing machines              | CE, cETLus                        |
| <b>Special equipment</b>                                                      |                                   |
| Manual tap for sampling of bath water on right side:                          | Yes                               |
| Connection for temperature recording sensor in rear gable:                    | Yes                               |
| Possibility to connect lint trap:                                             | Yes                               |
| Memory card with copy safe programs for M&S and (IEC; ISO):                   | Yes                               |
| Procedure for calibration of the machine according to ISO 9000 rules:         | Yes                               |
| Possibility to take out test pieces from wash bath during the wash:           | Yes                               |
| Analog output from load cells to data acquisition systems:                    | Yes                               |

\* Approval from Marks & Spencer required.

### Pre- programmed wash programs

The Clarus Control in the Wascator FOM71 CLS contains 9 pre- programmed "wash programs". They are not real wash programs but are mainly designated for checking purposes. The stored programs are:

| Place | Name               | Content                                                                                           |
|-------|--------------------|---------------------------------------------------------------------------------------------------|
| 991   | Start-up Programme | Flushes the machine with water. Shall be used if the machine has been idle for more than 2 hours. |
| 992   | Level check        | Checking of the level. With ruler inside the machine fills to 100 mm, 130 mm, 160 mm, and 200 mm. |
| 993   | Weight check       | Machine fills water to 18kg and to 26kg.                                                          |
| 994   | Temperature check  | Check of the temperatures at 25°C, 40°C, 60°C and 90°C 2 minutes at each temperature.             |
| 995   | Extraction         | 500 RPM 1 min.                                                                                    |
| 996   | Extraction         | 500 RPM 5 min.                                                                                    |
| 997   | Extraction         | 775 RPM 2 min.                                                                                    |
| 998   | Extraction         | 950 RPM 4 min.                                                                                    |
| 999   | Extraction         | 1100 RPM 5 min.                                                                                   |