

Reference washer extractor For laboratories Wascator FOM71CLS

Features and benefits

- **Clarus Control® with:**
 - Fully programmable microprocessor
 - All relevant wash parameters can be programmed
 - Programming from key pad or downloading via memory card
- 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
- 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

Main options

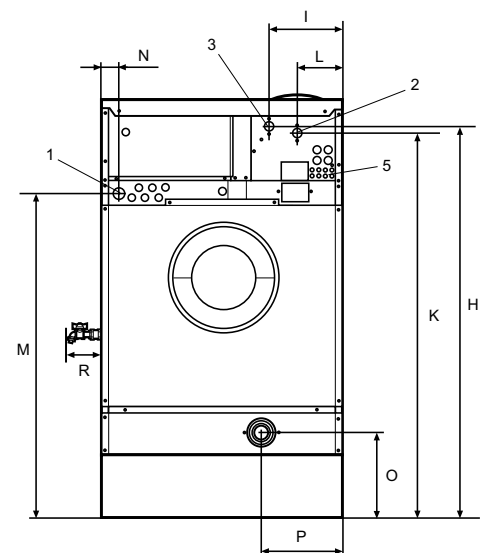
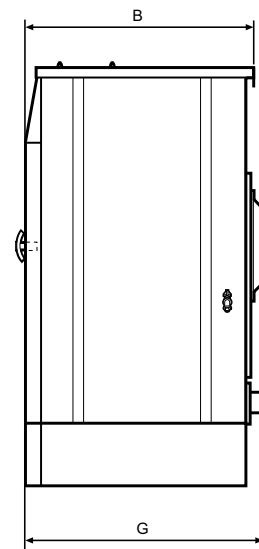
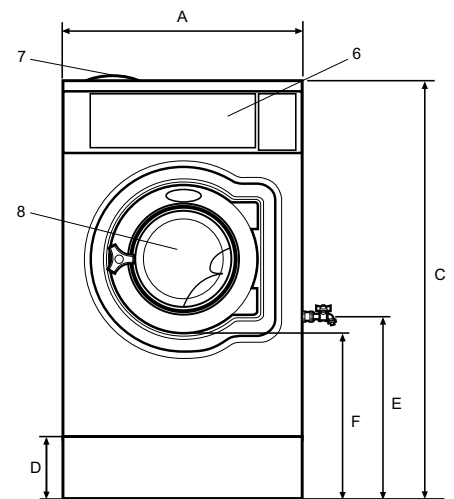
- LPM (Laundry Program Manager) PC programming kit in Windows. For more information regarding LPM, please refer to the product data sheet for LPM
- Extra program memory cards



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

Electrical connections				
Heating alternative	Main voltage	Hz	Total power kW	Recommended fuse A
Electric heated	230V 3AC	50/60	5.7	16
	240V 3AC	50/60	5.7	16
	400V 3N AC	50/60	5.7	10
	415V 3N AC	50/60	5.7	10

Water and steam connection		FOM71CLS
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		
Sound pressure level*	dB(A)	71
Heat emission		
% of installed power, max		5
Shipping data		
Weight, net	kg	195
Weight, crated	kg	260
Shipping volume	m ³	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		
2. Cold water		
3. Hot water		
4. Drain		
5. Liquid supply connections		
6. Control panel		
7. Detergent compartment		
8. Door opening ø 310 mm		



* A-weighted emission sound pressure level at working stations.

Function/subsystem

Ambient conditions		FOM71CLS
The machine shall be able to function during the same ambient conditions as normal washing machines. 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	°C	(15 $\pm$ 2)
Inlet water, hot	°C	Max (60 $\pm$ 2)
Water pressure	kPa	(240 $\pm$ 50)
Ambient temperature	°C	(20 $\pm$ 5)
Inner drum		
Diameter	mm	(520 $\pm$ 1)
Depth	mm	(315 $\pm$ 1)
Volume	litre	61
Lifting vanes, number		3
Lifting vanes, height	mm	53
Lifting vanes, radius	mm	17
Lifting vanes, base width	mm	65
Perforation, diameter	mm	5
Depth of countersink	mm	2.5
Total hole area	cm ²	600
Material: Stainless steel		2333 (SS 18/8)
Outer drum		
Diameter	mm	554
Sump	ml	~ (1300 $\pm$ 25)
Material: Stainless steel		2333 (SS 18/8)
Door opening		
Opening diameter	mm	310
Cabinet		
Material: Stainless steel		2333 (SS 18/8)
Drum speed		
Washing speed: Programmable	RPM	(20 – 59 $\pm$ 1)
Extraction: Programmable	RPM	(200 – 1100 $\pm$ 20)
Reversing rhythm		
Programmable (Tolerance area refers to timer intervals)	seconds	(0 – 250 $\pm$ 0.1)
Water level		
Weight sensing, Repeatability		$\pm$ 0.1kg/bath
Weight sensing, Step size	kg	0.05
Weight sensing, Dosing accuracy weight control		$\pm$ 0.2kg/bath
Level sensing, Repeatability	mm	$\pm$ 5
Level sensing, Step size	mm	3
Level sensing, Dosing accuracy weight control		$\pm$ 0.8litre/bath
Thermostat		
Continuous variable in each wash sequence		Yes
Selectable interval	°C	(4-97)
Programming steps	°C	1
Switch off temperature accuracy in Interval 30-97°C	°C	$\pm$ 1
Interval switch off temperature – switch on temperature	°C	4 oC

Detergent compartment	
Number of compartments	4
Number of programmable liquid detergents	4

Memory cards	Product number/Part number
Kit consisting of 5 empty memory cards	988 8022-40
ISO6330/1984 (locked card)	988 9162-20
ISO6330/2000 (locked card)	988 9162-22
ISO6330/2012 (locked card)	988 9162-55
ISO6330/2021 (locked card)	988 9162-99
IEC 60456 Ed 4 (locked card)	988 9162-25
IEC 60456 Ed 5 / EN60456: 2016 (locked card)	988 9162-28
IEC60456:2024 Ed. 6.0 2024-11 (locked card)	988 9163-61
EN60456 2005 (locked card)	988 9162-45
EN50640 (locked card)	988 9162-63
Marks & Spencer* (locked card)	988 9162-27
H&M (locked card)	988 9162-47
Woolmark wash programs (locked card)	988 9162-48
ISO3175-4:2003 (locked card)	988 9162-59
ISO3175-4:2018 (locked card)	988 9162-98
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

* Approval from Marks & Spencer required.

Special equipment	
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

