

GWF06

FLEXILOAD LINE

Laboratory glassware washers

GWF06 is a glassware washer designed to work with two independent washing levels, which can be installed undercounter to optimize space and, at the same time, ensure high washing efficiency.

The modular internal configuration ensures high adaptability to glassware of different shapes and sizes, allowing each load to be optimized and quickly reconfigured according to the needs of the laboratory. This system ensures greater operational flexibility and more efficient washing cycles, with a significant reduction in time and consumption.

Equipped with a stainless-steel drop-down door, it offers the possibility of washing, thermal and chemical disinfection up to 85°C.

The control system is characterized by a sophisticated colour touch on glass LCD display that allows the management of all operating parameters and the recording of every event and program carried out.



Features

| | |
|---|---|
| Electronic control | Microprocessor |
| Preset standard programs | 8 |
| Display | Color graphic LCD with Touch on Glass user interface |
| Alarm communication | Yes, visual and acoustic |
| Washing parameter setting menu | Yes |
| Washing cycle progress indicator on display | Yes |
| Temperature | Up to 85°C |
| Accuracy | 0.1°C |
| Door | Stainless steel drop-down door |
| Security door lock | Yes, with electromagnetic release and automatic opening |
| Traceability | Data storage of the last 300 programs run (at least) |
| Washing cycles and alarms storage | Yes |
| Data download | Yes, via USB port |

Construction

| | |
|------------------------------------|---------------------|
| Washing chamber material | AISI 304 |
| External panels material | AISI 304 |
| External dimensions (WxDxH) | 600 x 605 x 850 mm |
| Packaging dimensions (WxDxH) | 660 x 790 x 1050 mm |
| Usable internal dimensions (WxDxH) | 525 x 520 x 555 mm |
| Net capacity (l) | 152 |
| Gross capacity (l) | 171 |
| Net weight (Kg) | 72 |
| Gross weight (Kg) | 84 |
| Noise level | Max 60 dB(A) |

Equipment

| | |
|--|---|
| Washing levels with telescopic guides | N° 2 |
| Enhanced bottom sprayer arm with inclined angles | Standard |
| Upper sprayer arm | Optional (code IRCF) |
| Peristaltic pump for liquid neutralizer | Standard |
| Peristaltic pump for liquid detergent | Standard in "S" specific version (see table below) |
| Powder detergent dispenser | Standard in "0" specific versions (see table below) |
| Water softener | Standard |
| Temperature probe in washing chamber | N° 1 x PT 1000 CLASS B IEC 60751 |

Available versions

| VERSION | POWDER DETERGENT DISPENSER | LIQUID DETERGENT DOSING PUMP | NEUTRALIZER DOSING PUMP |
|--------------|----------------------------|------------------------------|-------------------------|
| GWF06-00-00J | ● | ○ | ● |
| GWF06-S0-00J | - | ● | ● |

| | |
|---|--|
| ● | Standard feature |
| ○ | Optional feature (some can only be installed at the factory when ordering) |
| - | Feature not present and not installable |

Optional

| | |
|-----------|--|
| AS4060 | Aqua Stop kit |
| IRCF | Additional upper sprayer arm |
| P14060 | Peristaltic pump for liquid detergent dosing |
| PAD1 | Booster pump for non-pressurized demi water (H tank >85 cm) |
| PAD2X | Stainless steel booster pump for non-pressurized demi water |
| PAD2R | Relay kit for PAD2X pump |
| TOP60I | Built-in top for undercounter recessing, reduces the machine H to 830 mm |
| WD-EC-1 | Single-phase electrical connection |
| WD-EC-1UK | Single-phase electrical connection - UK |
| WD-EC-3 | Three-phase electrical connection without neutral |

Plinths and support frames



B6040L

STAINLESS STEEL PLINTH WITH LOCK

- dimensions WxDxH: 600 x 530 x 400 mm
- increases the load level of the machine to 70 cm from the floor
- equipped with detergent compartment with anti-drop bottom surface
- front door with key lock
- in case of use with a machine configured with the Aqua Stop system, it is necessary to use the adapter code ASB6040L

T6040

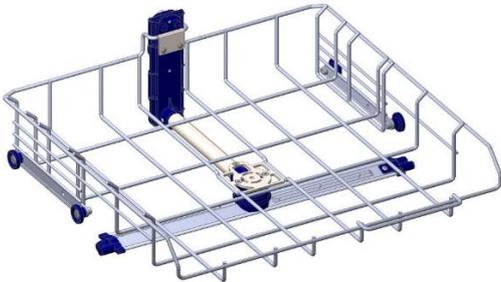
STAINLESS STEEL SUPPORT FRAME

- dimensions WxDxH: 600 x 530 x 400 mm
- increases the load level of the machine to 70 cm from the ground
- allows cleaning under the machine



Washing trolleys and modules

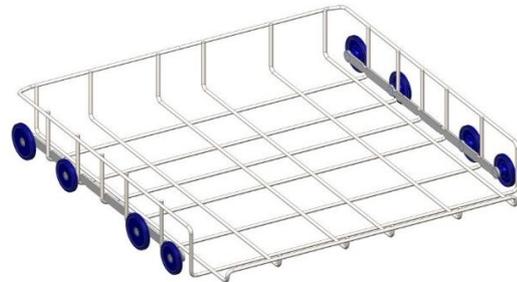
Base trolleys for spray washing



CFM-S

UPPER TROLLEY

- Suitable for positioning wide-necked glassware for spray washing and/or for positioning specific washing baskets and supports
- Integrated sprayer arm for enhanced spray washing on the upper level
- Usable height: 226 mm
- Usable dimensions (WxD): 474 x 468 mm

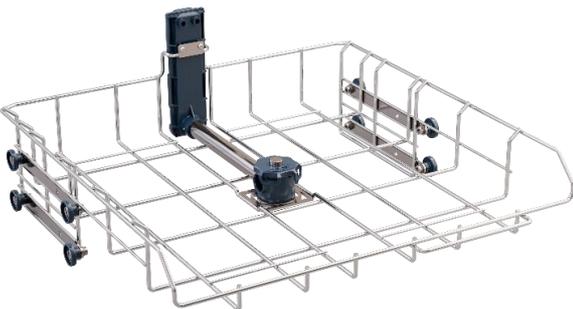


CFM-I

LOWER TROLLEY

- Suitable for positioning wide-necked glassware for spray washing and/or for positioning specific washing baskets and supports
- Usable height: 230 mm
- Usable dimensions (WxD): 484 x 501 mm

Base trolleys for injection washing



CFL-S

UPPER TROLLEY

- Suitable for positioning wide-neck glassware or specific washing modules
- Central selector switch that allows two modules to be fitted at the same time or divert the water flow to a specific module or manifold
- Configurable trolley height to allow different washing options: 250 or 196 mm depending on the configuration chosen
- Usable dimensions: 208x468 mm (WxD) per side



CFL-I

LOWER TROLLEY

- Suitable for positioning wide-neck glassware or specific washing modules
- Central selector switch that allows two modules to be fitted at the same time or divert the water flow to a specific module or manifold
- Usable height: 250 or 305 mm depending on the configuration chosen for the upper trolley
- Usable dimensions: 217x501 mm (WxD) per side

Injection modules for narrow-necked bottles and glassware



MFL-8P

INJECTION MODULE FOR LARGE GLASSWARE

- Suitable for washing 8 bottles of 1000 ml
- Max. diameter of processable glassware: 120 mm
- Equipped with the following nozzles: 8 x U6170 (170 mm)

MFL-20P

INJECTION MODULE FOR MEDIUM-SIZED GLASSWARE

- Suitable for washing 100 ml flasks
- Max. diameter of processable glassware: 74 mm
- Equipped with the following nozzles: 9 x U3110 (110 mm) and 9 x U4140 (140 mm) with height-adjustable bottle supports; 2 x U4140 (140 mm) with lowered bottle supports



MFL-35P

INJECTION MODULE FOR SMALL GLASSWORKS

- Suitable for washing 25-50 ml flasks and flasks
- Diameter of processable glassware: 52 mm
- Equipped with the following nozzles: 16 x U390 (90 mm) and 16 x U3110 (110 mm) with height-adjustable bottle holders; 3 x U390 (90 mm) with lowered bottle holders

Injection modules for vials and test tubes

MFL-KP100

INJECTION MODULE FOR VIALS AND TUBES

- Suitable for washing vials, tubes and vials
- Equipped with the following nozzles: 105 x U390 (90 mm)
- Max. diameter of processable glassware: 10 mm



Pipette injection modules



MFL-PT100

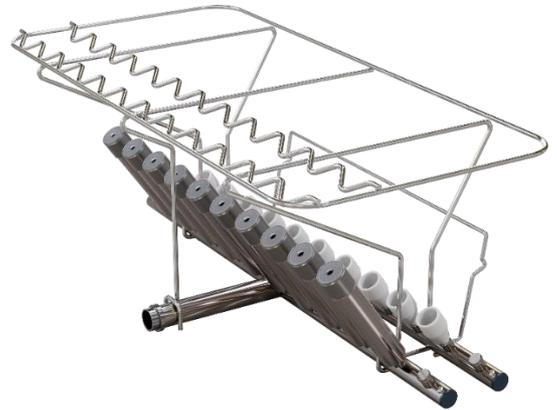
PIPETTE INJECTION MODULE

- Suitable for washing 105 standard pipettes
- Max. height of glassware that can be processed: 480 mm
- Max. diameter of glassware that can be processed: 18 mm
- Can only be used on the lower washing level

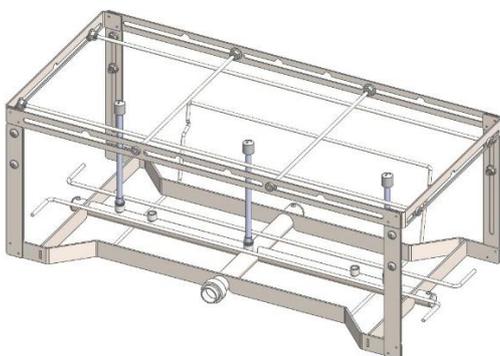
MFL-PT20L

PIPETTE INJECTION MODULE

- Suitable for washing 20 standard pipettes
- Max. height of processable glassware: 580 mm
- Equipped with 10 cylindrical fittings and 10 conical fittings
- Can only be used on the lower washing level



Injection modules for large bottles and glassware



MFL-LBT3

INJECTION MODULE FOR LARGE GLASSWARE

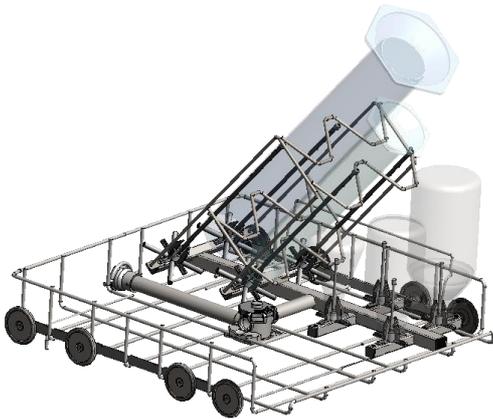
- Suitable for injection washing of 2 or 3 large glassworks
- Max. glassware diameter: Ø 230 mm in case of 2 positions used, Ø 160 mm in case of 3 positions used
- Equipped with the following nozzles: n° 3 nozzles Ø 6 mm H 140 mm complete with support (code ULB6140) + n° 3 caps for the 2/3 unused positions
- Equipped with dividers for secure storage of glassware

Injection modules for cylinders

MFL-C8

CYLINDER INJECTION MODULE

- Suitable for washing 8 cylinders
- equipped with 8 nozzles Ø 6 mm H 240 mm (code U6240)
- Equipped with n° 8 cross supports
- Support structure for cylinder housing



MFL-C4B4

CYLINDER INJECTION MODULE

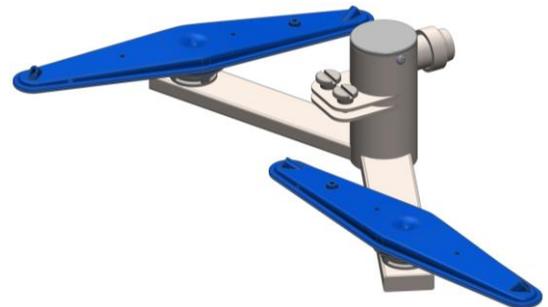
- Suitable for washing 4 cylinders
- Equipped with 4 nozzles Ø 6 mm H 240 mm (code U6240)
- equipped with 4 cross supports
- Support structure for cylinder housing
- Equipped with 4 positions for small-medium dimension glassware

Modules for spray washing for upper floor

MFL-IRS

MODULE FOR SPRAY WASHING 1/2 UPPER LEVEL

- Designed for washing wide-neck glassware in the space of 1/2 upper level
- Equipped with 2 spray arms for enhanced spraying washing on the upper level
- Usable dimensions (WxD): 150 x 468 mm
- Compatible with CFL-S upper rack



Supports

Flask and beakers supports



Cod. SB15



Cod. SB30

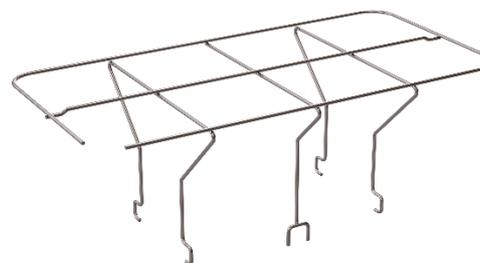
Possible configurations:

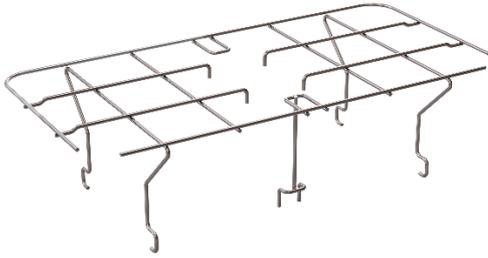
- **SB15:** SPRING SUPPORT - 16 POSITIONS
 - for beakers / Erlenmeyer flasks from 500 to 1000 ml
 - occupies 1/2 base trolley
- **SB25:** SPRING SUPPORT - 25 POSITIONS
 - for beakers / Erlenmeyer flasks from 250 to 500 ml
 - occupies 1/2 base trolley
- **SB28:** SPRING SUPPORT - 25 POSITIONS
 - for beakers / Erlenmeyer flasks from 250 to 1000 ml
 - occupies 1/2 base trolley
- **SB30:** 30 POSITIONS BEAKERS SUPPORT
 - for cylinders of max 100 ml and funnels
 - occupies 1/2 base trolley

SB8F

GLASSWARE SUPPORT – 8 POSITIONS

- Designed for greater stability of the glassware during the washing cycle
- To be combined with module code MFL-8P





SB20F

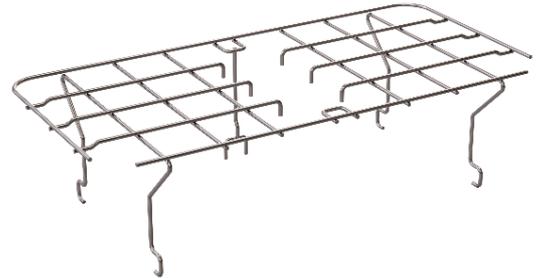
GLASSWARE SUPPORT – 20 POSITIONS

- Designed for greater stability of the glassware during the washing cycle
- To be combined with module code MFL-20P

SB35F

GLASSWARE SUPPORT – 35 POSITIONS

- Designed for greater stability of the glassware during the washing cycle
- To be combined with module code MFL-35P



GW-NEST

GLASSWARE SUPPORT

- Suitable for glassware positioning for greater stability during the washing cycle
- Min-max processable diameter of the glassware: 30-85 mm

GW-NEST-L

GLASSWARE SUPPORT

- Suitable for glassware positioning for greater stability during the washing cycle
- Min-max processable diameter of the glassware: 75-120 mm



Test tubes supports



CP105

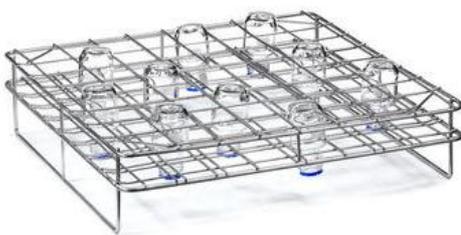
TEST TUBE BASKET - H = 75 MM

- capacity: 160 standard test tubes
- equipped with 2 removable compartments with lid
- occupies 1/4 base trolley CFM-S / CFM-I

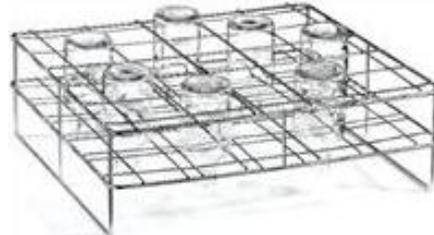
Other configurations:

- **CP132:** TEST TUBE BASKET - H = 105 MM
- **CP192:** TEST TUBE BASKET - H = 165 MM
- **CP222:** TEST TUBE BASKET - H = 200 MM

Bottles supports



Cod. PB50



Cod. PB250



Cod. PB1000

Possible configurations:

PB50: SUPPORT FOR 50 ML WIDE NECK BOTTLES

- capacity: 56 x 50 ml wide neck bottles
- bottle max. dimensions Ø x H: 46 x 87 mm
- positionable on base trolleys CFM-S / CFM-I

PB100: SUPPORT FOR 100 ML WIDE NECK BOTTLES

- capacity: 36 x 100 ml wide neck bottles
- bottle max. dimensions Ø x H: 56 x 100 mm
- positionable on lower-level trolley CFM-I

PB250: SUPPORT FOR 250 ML WIDE NECK BOTTLES

- capacity if collocated on the lower trolley CFM-I: 25 x 250 ml wide neck bottles; 24 x 250 ml if collocated on the upper trolley CFM-S
- bottle max. dimensions Ø x H: 70 x 138 mm

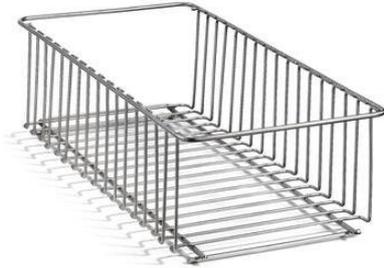
PB500: SUPPORT FOR 500 ML WIDE NECK BOTTLES

- capacity: 21 x 500 ml wide neck bottles
- bottle max. dimensions Ø x H: 90 x 176 mm
- positionable on lower trolley CFM-I

PB1000: SUPPORT FOR 1000 ML WIDE NECK BOTTLES

- capacity: 16 x 1000 ml wide neck bottles
- bottle max. dimensions Ø x H: 110 x 225 mm
- positionable on lower trolley CFM-I; the upper trolley needs to be positioned in the upper possible solution

Plates and slides supports



Cod. SL18



Cod. PV105

Possible configurations:

- **SL9:** SUPPORT FOR CHROMATOGRAPHY PLATES
 - o suitable for holding up to 9 plates measuring from 150 x 150 mm to 220 x 220mm
 - o occupies 1/2 trolley CFM-S / CFM-I
- **SL18:** SUPPORT FOR CHROMATOGRAPHY PLATES
 - o capacity: 18 plates 200 x 200 mm
 - o occupies 1/2 trolley CFM-S / CFM-I
- **PV105:** MICROSCOPY SLIDE BASKET
 - o suitable for holding 105 standard slides for microscopy

Petri dishes supports



PD70I

LOWER SUPPORT FOR PETRI DISHES 50-70 mm

- o capacity: 42 pieces
- o positionable on lower trolley CFM-I

Alternative configuration:

- **PD100I:** LOWER SUPPORT FOR PETRI DISHES 70-120 mm

PD70S

UPPER SUPPORT FOR PETRI DISHES 50-70 mm

- o capacity: 40 pieces
- o positionable on upper trolley CFM-S or on supports PD70I / PD100I

Alternative configuration:

- **PD100S:** UPPER SUPPORT FOR PETRI DISHES 70-120 mm
 - o capacity: 38 pieces



Bottom meshes and nets for small glassware



PF1/2F

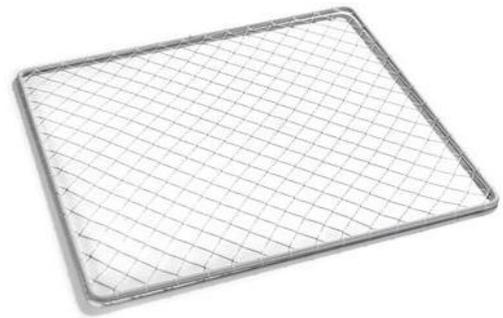
STAINLESS STEEL MESH BOTTOM FOR GLASSWARE POSITIONING

- Suitable for positioning wide-necked glassware for spray washing
- made of stainless-steel flat mesh - mesh 10 x 10 mm

RC1

COMPLETE GLASSWARE FIXING NET

- nylon mesh 25 x 25 mm
- dimensions WxD: 474 x 516 mm
- positionable on lower trolley CFM-I



Available also:

- **RC1/2:** GLASSWARE FIXING NET
 - nylon mesh 25 x 25 mm
 - dimensions WxD: 456 x 214 mm
 - occupies 1/2 base trolleys
- **RC1/4:** GLASSWARE FIXING NET
 - nylon mesh 10 x 10 mm
 - dimensions WxD: 204 x 204 mm
 - occupies 1/4 base trolleys

Baskets



CSK2

INSTRUMENT BASKET WITH HANDLES

- suitable for holding medium-sized instruments
- dimensions WxDxH: 450 x 225 x 50 mm
- mesh 5 x 5 mm
- made of stainless steel

CSK1/3

INSTRUMENT BASKET WITH HANDLES

- suitable for holding various medium-sized instruments
- dimensions WxDxH: 435 x 160 x 50 mm
- mesh 5 x 5 mm
- made of stainless steel



Installation requirements

ELECTRICAL CONNECTION

| | |
|--|---|
| Standard power supply | 400V 3N~/PE/50Hz/12A (60Hz version available) |
| Electrical protection required | 3P, 16 A |
| Total power | 7 kW |
| Convertible to single-phase (via optional dedicated kit code WD-EC-1) | 1/N/PE 230 V - 50 Hz - 2.8 kW max |
| Convertible to three-phase without neutral (via optional dedicated kit code WD-EC-3) | 230V 3~ - 50Hz - 19A - 7 kW max |

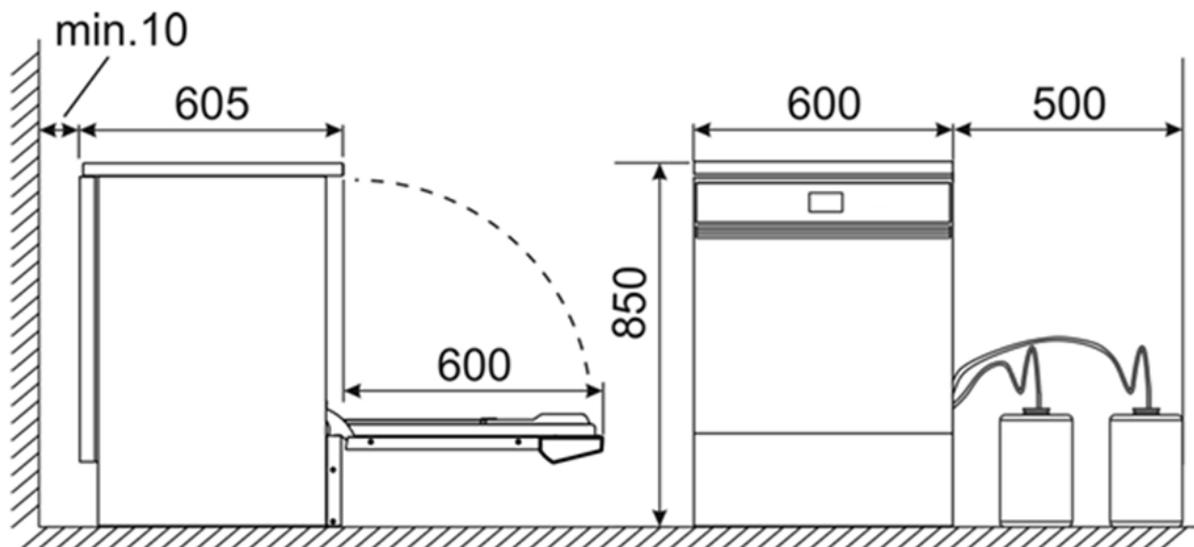
WATER CONNECTION

| | |
|--------------------------------|--|
| Cold water connection | Max hardness 42°f, max temperature 35°C |
| Demineralized water connection | < 30 µS/cm / 5 -8 ph, max hardness max 0.5°f – 0 ppm CaCo3, max temperature 50°C |
| Connection | 3/4" - DN20 |
| Required flow rate [min-max] | 4 - 12 l/min |
| Pressure [min-max] | 100 kPa - 600 kPa (1.0 – 6.0 bar) |

DRAIN CONNECTION

| | |
|-------------------------------|----------------|
| Connection | ø 21 mm (1/2") |
| Maximum flow rate | 25 l/min |
| Maximum height of the drain | 800 mm |
| Max. outlet water temperature | 95 °C |

Technical drawings



Technical appendix

1. ADDITIONAL INFORMATION

| | |
|-----------------------------------|--|
| Producer | Smeg S.p.A. |
| Year placed on the market | 2025 |
| Intended use | Glassware washers for washing and thermo-disinfecting glassware and various laboratory materials |
| Main fields of application | Food, pharmaceutical, cosmetic, general chemistry, organic chemistry and biochemistry, research and teaching laboratories. |
| Compliance | Refer to the CE declaration of conformity |

2. PERFORMANCE INFORMATION

| Washing and drying dimensions and performance | Units of Measurement | Value |
|--|-----------------------------|--------------|
| Gross volume | [l] | 171 |
| Net volume (usable) | [l] | 152 |
| Washing chamber's steel thickness | [mm] | 0.8 |
| Flow rate of the washing pump | [l/min] | 520 |
| Drain pump flow rate | [l/min] | 18 |
| Electrical power drying resistance | [W] | 1200 |
| Max. settable drying temperature | [°C] | 120 |

- Soft-start function to protect the material to prevent thermal shock at the beginning of the washing phases and monitoring of the hydraulic circuit with high pressure switch.
- Four-stage filter for washing chamber:
 1. Thermowell macro-filter in micro-perforated steel mesh
 2. Micro-filter sump in steel mesh
 3. Coarse filter immediately visible in the chamber
 4. Median micro-filter in steel mesh
- Additional micro-filters at the cold water and demineralized water inlet

3. DISPLAY

Colour graphic display for constant and real-time display of all the main operating parameters:

- ✓ Identifier of the current program
- ✓ Program progress status, with progress bar, with indication of the expected remaining time
- ✓ Identification of the current phase
- ✓ Temperature detected inside the chamber
- ✓ Parameter A0 reached
- ✓ Alarm and maintenance messages
- ✓ Electronic date and time with internal backup battery in case of blackout

4. CONNECTION SOFTWARE

WD Connect Multi software for managing, tracking and monitoring the glassware washer supplied as standard. Supplied on a USB stick together with complete documentation of the machine.

| WD Connect Multi Features | User | Service |
|---|------|---------|
| Machine monitoring during washing cycle | X | X |
| Archive download and data reading | X | X |
| Editing of custom programs (up to 10 washing phases + 1 extra-drying phase) | X | X |
| Modification of standard detergent dosage | X | X |
| Real-time acquisition of machine operating data | X | X |
| Real-time verification of the parameters characterizing the washing cycle in progress | X | X |
| Alarm Assistance and Diagnostics | | X |
| Machine configuration editing | | X |
| Calibration of machine components | | X |
| Firmware Version Update | | X |

5. SAFETY DEVICES AND ALARM INDICATIONS

- ✓ Emergency mechanical release of the door in the event of machine failure and blackout
- ✓ Overheating safety by means of safety thermostats
- ✓ Display of error messages/warnings with visual and acoustic signalling:
 - 14 warning messages
 - 42 Alarm indications
- ✓ Flow meter control of the amount of water introduced
- ✓ Water level control
- ✓ Check that the washing pump is working correctly
- ✓ Operator safety system with optional reduction of the tank temperature at the end of the cycle
- ✓ Washing stop when the door is opened

6. WEIGHT OF MACHINES, MATERIALS, PANELING AND WASHING CHAMBER

| | Units of Measurement | GWF06 | GWF16-26 | GWF29 |
|--|-----------------------------|--------------|-----------------|--------------|
| Curb weight [without load in the machine] | [kg] | 72 | 72 | 100 |
| Packed weight | [kg] | 84 | 84 | 116 |
| Maximum weight in use [E.g. for 60cm +37kg max load +10litres water load] [For GWF290 also +20kg, detergent tanks] | [kg] | 119 | 119 | 167 |
| Max. floor load | [kg/m ²] | 330 | 330 | 310 |
| Standard washing chamber | - | AISI 304 | AISI 316L | AISI 316L |
| External panelling | - | AISI 304 | AISI 304 | AISI 304 |

7. EXTRA-STANDARD DIMENSIONS

- If optional components such as PAD1 or additional peristaltic pumps are installed, the dimensions to be considered are increased by 150 mm in depth: [WxDxH] 600 x 755* x 850 mm
- When the optional AS4060 Aqua Stop component is installed, the height increases to 857mm**

8. ENVIRONMENTAL CONDITIONS

| Characteristic | Units of Measurement | Value |
|---|-----------------------------|---|
| Use | - | Internal |
| Max. altitude | [m a.s.l.] | Up to 1000 |
| Environment temperature [min-max] | [°C] | 5°C-40°C |
| Device IP Rating | - | 00 |
| Lighting minimum level required | [lx] | 300 |
| Max. humidity | [% HR] | 80% for temperatures up to 31°C with linear decrease up to 50% at a temperature of 40°C |
| Overvoltage category | - | II |
| Electrical insulation class (ref. IEC 61140) | - | The |
| Degree of pollution | - | 2 |
| Heat emission – machine to the environment, max | [W] | 900 |
| Max. noise level | [dB(A)] | 60 |