GW6010

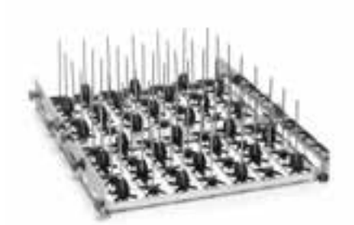
TECHNICAL DATA SHEET

A0 RS232 OPTIONAL OPTIONAL OPTIONAL OPTIONAL OPTIONAL

GW6010 TECHNICAL FEATURES

Electronic control	3 microprocessors
Standard programs stored	20 pre-set and 20 modifiable
Touch screen graphic display	TFT color (4.3"with capacitive sensing)
Clock and calendar	yes
Steam condenser	optional
Detergents pumps	2 installed, other 2 optional
Security locks	yes , with electromagnetic release
Door	single or double, (drop down door)
Safety lock	safety thermostats, door interlock
Alarm dispaly	yes, acoustic and visual
Trobleshooting menu	yes, using pc connection
Password	4 levels
Display languages	Italian, English, French, German, Russian and others on request
AUXILIARITY FUNCTION	
Printer unclean side	optional
Printer clean side	optional
External probe	optional
Traceability	storage of data for 100 most recently run programs
RS232 serial port	yes, for connection to PC or printer
Water quality control(conductivity sensor)	optional
Interior lights	optional
Cycle storage	yes
Cycle file download	yes, USB/Excel format
LAN connection	optional
Sprayers speed control (heaven and background)	optional
Automatic recognition cart	optional
Pressure sensor circuit washing	optional
DRYING SYSTEM	
Drying fan	yes
Drying heating element	yes
Prefilter class C 98%	yes
HEPA filter class S 99.999%	optional
WATER SUPPLY	
Cold water inlet	yes, max 8°F hardness
Hot water inlet	yes, max 8°F hardness , t max 60°C
Demineralised water inlet	yes, 20 uS/cm / 5,8 pH, t max 60°C
Preheated boiler cold water	optional
Demineralised water booster pump	optional
External water softner	optional
Recirculation pump	600l/min
WATER HEATING	
Electrical	13 kW
Boiler built	6 kW each boiler
Steam	optional
DIMENSIONS LxPxH mm	
Overall (with buil-in top)	650 x 720 x 1945 mm
Chamber	546 x 620 x 690 mm
Net weight(Kg)	248 kg
STAINLESS STEEL	
Wash chamber	AISI 316L
Exterior covering	AISI 304
ELECTRICL POWER SUPPLY	
Voltage/power	3P/N/PE 50Hz 400V 13 kW
NOISE LEVEL	Max 55 dB

The strong point of the GW6010 washing system is that the direct injection systems can be exchanged with the rotating spray arms rack on all five washing levels. By placing the available systems on different levels, many different configurations can be obtained, thus allowing loading capacity to be optimized according to washing requirements. Glassware of various sizes and heights can be washed.
The CLB510 trolley is a universal 5 level base for inserting telescopic injection supports or racks equipped with spray arm.



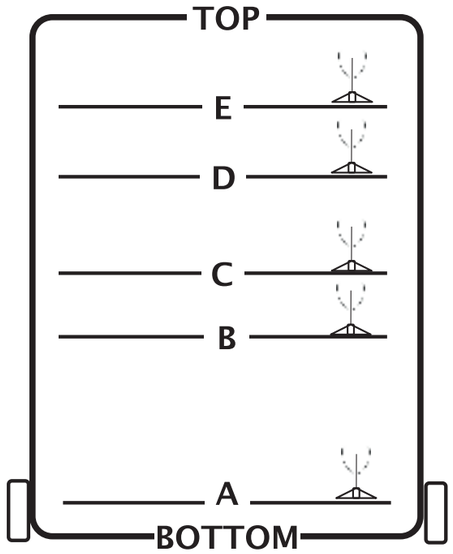
Several injection systems can be used on two and three levels. Once the system is inserted in the telescopic rails, it will automatically connect to the hydraulic section on the side of the CLB510.
The picture shows the injection system INS56U4140.

The CLB510 trolley can accommodate up to 3 injection inserts with 56 nozzles up to a total of 168 positions. The two upper levels can be inserted on the lower or upper guide according to the volumes of glassware to be washed.

The injection systems can be inserted on different levels of the CLB510 trolley respecting the height and the volumes of the glassware to be washed. The insert can be extracted on the telescopic rails to allow easy loading of the glassware.

Removal of the insert on the first level (bottom) you can maximize the capacity of wide-necked glassware such as beakers, flasks and test tubes, placed on the special baskets and supports. Interior and exterior washing is guaranteed by the spray arm situated at the bottom of the chamber.

INJECTION SYSTEM CONFIGURATION



The basic trolley CLB510 can accommodate up to 3 injection systems simultaneously. The bottom level (without inserts) is free for positioning supports or baskets.

Dimensions mm

	A	B	C	D	E	TOP
E						95
D					65	185
C				97	184	310
B			64	185	277	400
A		180	275	395	485	610
BOTTOM	16	210	305	425	515	640

Depending on the size of the glassware to be washed, the operator can choose where to place the insert. Inserts with different sizes of nozzles are available.

Some of the possibilities of washing on multiple levels with injection inserts

Insert code	Nozzle height	Simultaneous positioning on multiple levels	Compatibility systems
INS56U390	90 mm	3 levels: 1°A + 2°C + 3°E	1° level interchangeable with the insert INS56U4140
INS56U4140	140 mm	3 levels: 1°A + 2°B + 3°D	2° 3° level interchangeable with the insert INS56U390
INS56U4180	180 mm	2 levels: 1°A +2°C	2° level interchangeable with the inserts INS56U4140 or INS56U390
INS28U6260	260 mm	2 levels: 1°A + 2°C	2° level interchangeable with the insert INS56U4180

MACHINE OPTIONALS

ICRP

Supplementary celing sprayer made of stainless steel AISI 316L. Its operation improves the washing performance of glassware with complex shapes.

IC5090

On the basis of demineralized water conductivity used during the last rinse phase, it allows to detect any impurities and to activate also further rinse phases for achieving a perfect rinse with low conductivity.

WD-PRINTE

External printer.
WD-PAPER Thermal paper roll. Diameter 50 mm, width 57 mm.

WD-LAN

All models of Smeg's glassware-washers may be provided with an optional data communication card including a LAN port to connect the thermal disinfection washer to the local network.
The connection provides remote communication with the device due to the provided software, which then displays all the information given by thermal disinfection washer on your PC. All the operating parameters can also be changed without having to do so directly on the machine.

PAD

Booster pump for non-pressurised demineralised water.
Allows feeding the machine with demineralised water drawn from a non-pressurised tank positioned at a minimum height of 85 cm from the ground.

PAD 2

Booster pump for non-pressurised demineralised water.
Allows feeding the machine with demineralised water drawn from a non-pressurised tank positioned on the ground.

ADU

Universal peristaltic pump for liquid additive

- For the dosing of a liquid additive, for ex: alcaline detergent, caustic soda or antifoam
- With st/steel suction tube
- Suitable for tanks of 2l, 5l, 10l

WD-VDS

Double discharge valve that allows separating and ducting the polluted wastewater from the first washing cycles from the final rinsing water.
This wastewater separation device is composed of 1/2 inch valves with Viton membrane and valve opening is controlled by the machine microprocessor.

OPTIONALS

STAINLESS STEEL BASES AND FRAMES

B9040L

Base for 90 cm wide models only.
The base brings the machine loading level up to an ergonomic height approximately 70 cm from the ground. Entirely made of stainless steel. A detergent compartment with anti-drip bottom and front door with push-pull opening is integrated in the base.
Dimensions l x d x h = 900x530x400 mm
B6040L (not shown in the photo): for 60 cm wide models only.
Dimensions l x d x h = 600x530x400 mm

B9040QWC

Base with integrated demineralised water boiler. For 90 cm wide models only. A boiler is housed in the base to preheat the demineralised water to reduce cycle times.
Dimensions: l x d x h = 900x530x400 mm

T9040

Frame for 90 cm wide models only.
The frame brings the machine loading level up to an ergonomic height approximately 70 cm from the ground.
The frame also facilitates cleaning the machine underneath.
Entirely made of stainless steel.
Dimensions l x d x h = 900x530x400 mm
T6040 (not shown in the photo): frame for 60cm models only.
Dimensions l x p x h = 600x530x400 cm

WATER TREATMENT

To obtain high quality washing standards, it is fundamentally important to used correctly treated water. In the prewash, washing and neutralisation phases, softened water should always be used. Underbench models range have an efficient built-in water softner capable of reducing the hardness of the supply water so as to prevent the classic formation of whitish stains inside the chamber and on the instruments.
Smeg also supplies a range of high-performance WS water softeners which are compact and easy to install. Equally important is the rinsing of the instruments with demineralised water in order to eliminate any contaminants remaining in the washing chamber. For this purpose, Smeg has the compact and efficient WP3000 mixed resin bed demineraliser.

WP3000
RESIN COLUMN WATER PURIFIER
The WP3000 water purifier is used to produce deionised water at 0.8-1 µS/cm, suitable for the final rinsing of instrument washers. The system uses mixed bed resins (disposable) which can also retain silica. When the resins run out, they can simply be replaced with the MI700WP kit.
The resin cartridge is made out of stainless steel, as is the entire machine.

Net capacity of cartridge: 15 litres.
Dimensions: l x d x h = 300x600x850 mm.

MI700WP
Anion/cation mixed bed resins kit for the WP3000 water purifier. Total exchange capacity 42700 litres/°F* end of cycle at 5µS/cm (*Hardness in French degrees). Supplied with used resin disposal bag.

WS9E, WS11E, WS14E, WS17E
WATER TREATMENT SYSTEMS
The WSE series of appliances are technological water softeners capable of completely eliminating lime from water.
The resins are regenerated using normal sodium chloride.
Available in versions with flow rates of up to 2700 litres/hour.
The models are fitted with an electronically controlled head which can be programmed depending on the hardness of the water. They provide backflow regeneration based on the volume of water (bearing in mind the resin saturation rate) and proportional brine in order to optimise water and salt consumption.

	WS9E	WS11E	WS14E	WS17E
MAXIMUM FLOW RATE	1600 l/h (16.7 l/min)	1800 l/h (43 l/min)	2000 l/h (43 l/min)	2200 l/h (43 l/min)
NOMINAL FLOW RATE	1000 l/h (16.7 l/min)	1500 l/h (43 l/min)	1600 l/h (43 l/min)	1800 l/h (43 l/min)
RESIN CAPACITY IN LITRES	9	11	14	17
EXCHANGE CAPACITY (m^3/°F)	54	66	84	102
CYCLE CAPACITY AT 40°F	1350	1650	2250	2700
PROGRAMMABLE RESIDUAL HARDNESS	0-10° F	0-10° F	0-10° F	0-10° F
REGENERATING AGENT TYPE	NaCl SALT	NaCl SALT	NaCl SALT	NaCl SALT
REGENERATING AGENT CONSUMPTION	0.9 kg/cycle	1.0 kg/cycle	1.2 kg/cycle	1.8 kg/cycle
DIMENSIONS ØxH (mm)	300 x 470 x 540	300 x 470 x 660	300 x 470 x 815	300 x 470 x 1070
SALT TANK DIMENSIONS L x P x H (mm)	INTEGRATED	INTEGRATED	INTEGRATED	INTEGRATED
CAPACITY LITRES (SALT)	about 15	about 20	about 30	about 40
CONNECTIONS	1"	1"	1"	1"

DETERGENTS AND ADDITIVES

To achieve excellent washing results and optimise the thermal disinfection of laboratory instruments, specific detergents should be used. Smeg has a complete range of alkaline detergents (for use during the washing phase) and neutralising acid detergents (for use during the neutralisation phase) especially designed to guarantee efficient cleaning and optimise the efficiency of the final thermal disinfection phase.

ALKALINE DETERGENTS

ph 13,9 — **DETERGLASS:** universal alkaline powder detergent with phosphates without oxidizing surfactants and without chlorine compounds.
Application field: general chemistry, food analysis, organoleptic protein.
10 kg pack, 2-5 g/liter.

ph 13,1 — **DETERLIQUID C2:** liquid alkaline phosphates free detergent without oxidizing surfactants and without chlorine compounds. For the removal of proteins, environment, blood, albumin and serum.
Application field: general chemistry, food analysis, organoleptic, proteins, microbiology, virology, histology and cytology, dyes, organic and inorganic chemistry.
5 liter container, 2-4 ml/liter.

ph 12,5 — **DETERLIQUID D2:** liquid alkaline detergent with active chlorine, phosphate free and without surfactants.
For the removal of environments, organic and mineral oil, grease, agar residuals, proteins.
Application field: microbiology, virology histology and cytology, dyes, inorganic and organic chemistry, petrol chemistry.
5 liter container, 2-4 ml/liter.

ph 11,5 — **DETERLIQUID SP:** liquid alkaline detergent without phosphates or chlorine compound.
For the removal of reactive inorganic chemistry and organic.
Application field: microbiology, inorganic and organic chemistry, petrol chemistry.
5 liter container, 2-4 ml/liter.

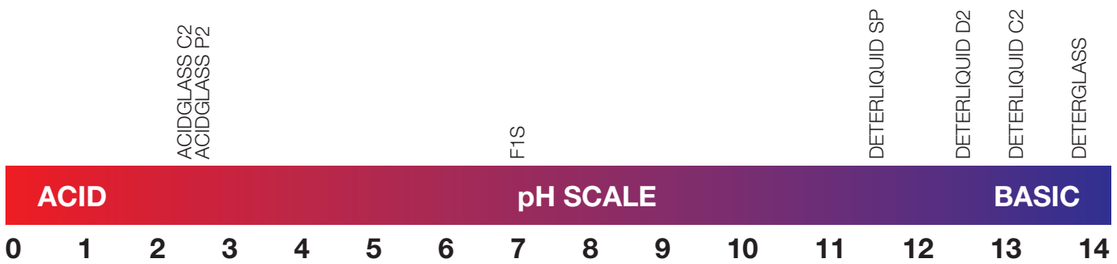
LIQUID ACID NEUTRALISERS

ph 2,5 — **ACIDGLASS P2:** organic phosphoric acid neutralizer.
Application field: general chemistry, inorganic and petrol chemistry
5 liter container, 2-3 ml/liter.

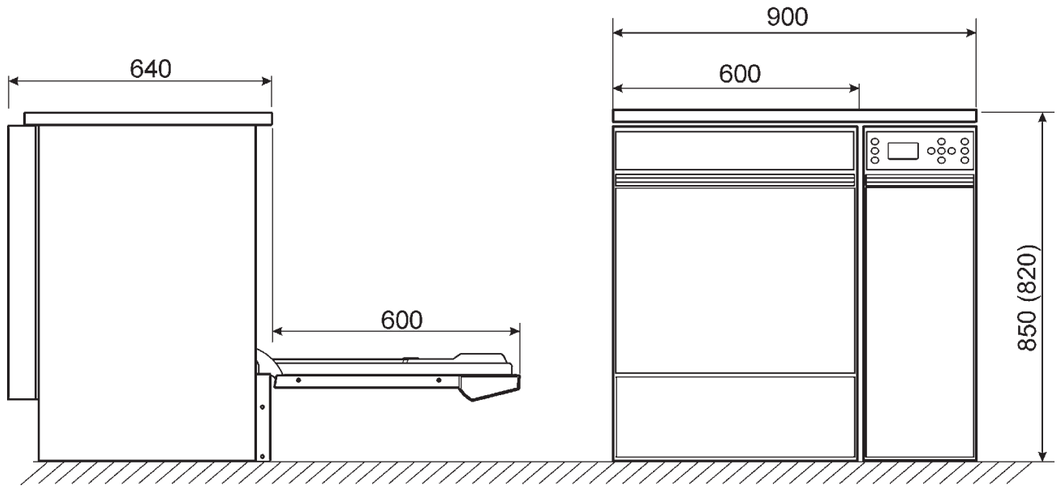
ph 2,4 — **ACIDGLASS C2:** weak organic acid neutralizer.
Application field :universal, environmental analysis
5 liter container, 1-2 ml/liter.

SPECIAL ADDITIVES

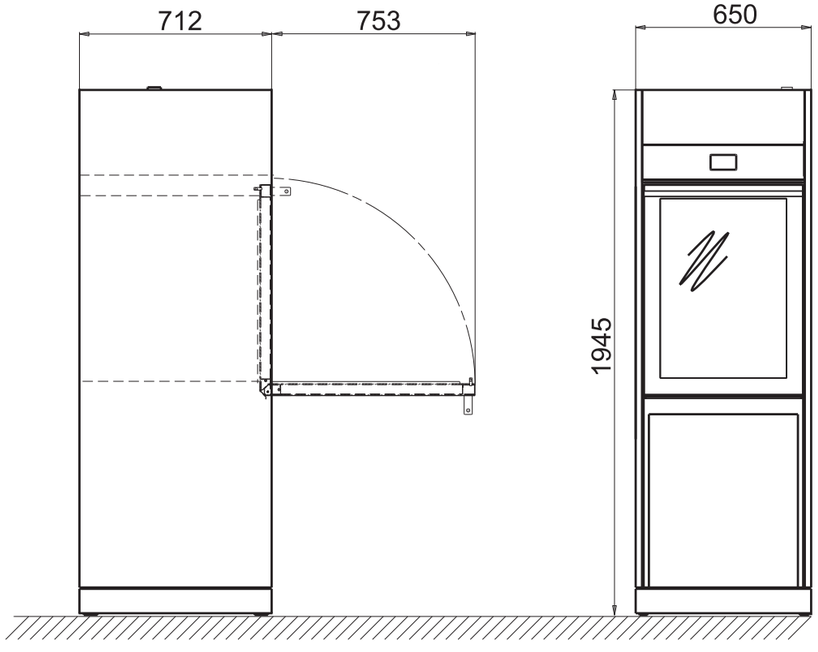
ph 7 — **F1S:** antifoam additive. Surfactant products for washing (soap and shampoo) and additives for petrochemical washing cycles .
Application fields: cleaning industry, petrochemical washing cycles
1 liter , 0,2-0,5 mi/liter.



GW4090

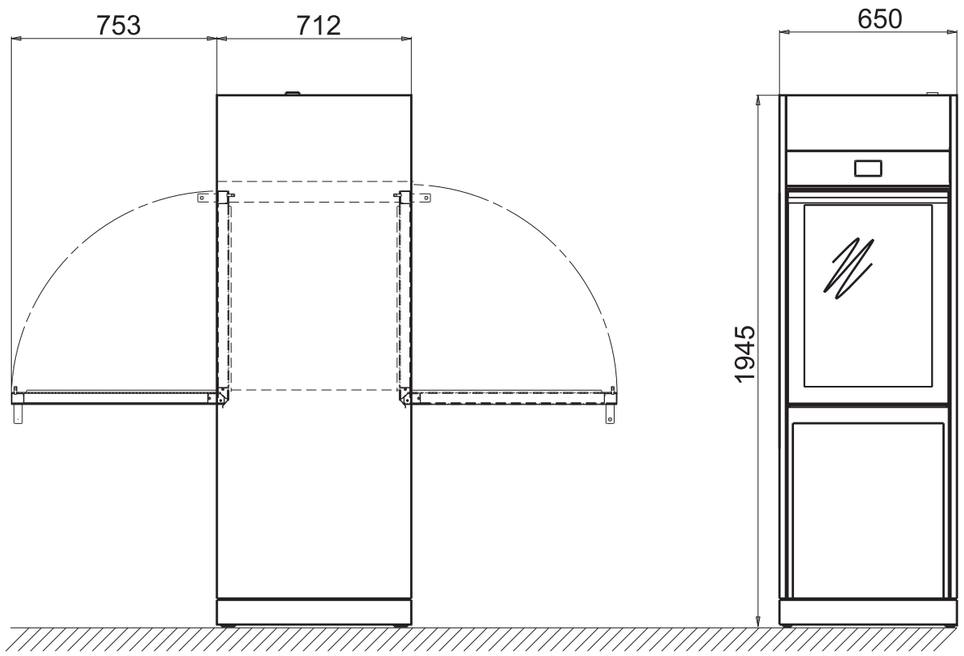


GW6010 - SINGLE DOOR

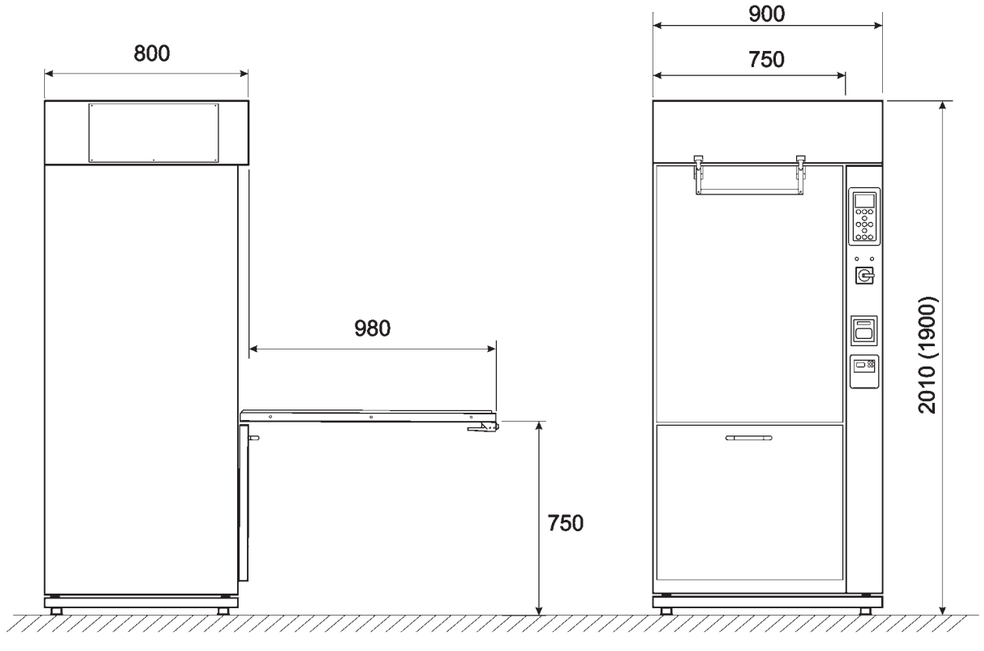


EXTERNAL DIMENSIONS - PROFESSIONAL LINE

GW6010 - DOUBLE DOOR



GW6090



MACHINE TECHNICAL FEATURES

	GW6010	GW6090
Internal dimensions(LxDxH mm)	546x620x690	670x650x835
External dimensions (LxDxH mm)	650x720x1945	2035x801x902
Standard programs stored	20	20
Modifiable programs	20	10
Detergent dosing system	peristaltic pump	
Neutralizing dosing system	peristaltic pump	
Max nr.of dosing pumps	4	5
Volume detergent control	optional	
Detergent cabinet	yes	
Display	4.3" TFT colour graphic display	Backlit graphic LCD display 128x64 pixel
Control panel	Capacitive sensing touch screen	Membrane keyboard
Steam condenser	optional	no
Drying system	Forced hot air through "drying system"	
Pre-filter class C	yes	
Cold water supply	yes	
Hot water supply	yes	
Demineralized water supply	yes	
Integrated water softener	no	
Washing pump	600l/min	2 x 400l/min
Conductivity control	optional	
Printer	optional	
Door interlock	yes	
Net weight (kg)	248	282
Conformity	2006/95/CEE,93/68/CEE, 2004/108/CEE	
Supply/Max power	3/N/PE/400V 50Hz-13KW	3/N/PE/400V 50Hz 18.5 kW
Possibility of 60Hz supply	yes	
Equipped with plug	no	