WD1260 - WD4260 - WD4290
GW1245 - GW0260 - GW1260 - GW4260 - GW4290

INSTALLATION REQUIREMENTS

This document provides indications for the correct preparation of systems and environments.

Any customizations on the products may require an integration of the information contained herein, referring to the standard models.

Preliminary operations for Start-up, at Customer's care:

- Any necessary work of room preparation.
- Prearrangement of properly operating systems, in compliance with the requirements and regulations in force.
- Machine positioning.

SMEG S.p.A. disclaims any liability for damage to persons or property resulting from defective systems or not compliant with the regulations, for improper installation of the appliance and/or accessories made by unauthorized personnel.

Any operation on the appliance by unauthorized personnel will invalidate the warranty and may compromise its safety.

19 561 0198 02 - EN	*13/11/2023*	*Ins. WD undercounter models and to model GW1245 for the Laboratory.*
19 561 0198 01 - EN	*24/03/2023*	*Ins. GW0260*
19 561 0198 00 - EN	*10/03/2023*	*First issue*
REV. DOC.	**DATE**	**NOTES**

Table of Contents

1 CONFIGURATION IDENTIFIER – REF.

Below are the references for identifying the devices and the main characteristics.
Consult authorized Smeg personnel to find out the exact configuration of your product.
REF: the REF of a product, which appears on its technical dataplate, is its "catalogue number", the code which enables unique identification of its configuration.
The REF code is built up by combining the following fields.

Type	SERIES	1st character	2nd character	3rd character	4th character	5th character	6th character	7th character
GW	1245	-	S	C	-	1	0	0
				0				

Type	SERIES	1st character	2nd character	3rd character	4th character	5th character	6th character	7th character
GW	0260	-	S	C	-	0	0	0
WD	1260		P	0			6	G
	4260		0					J
	4290							

The 5th and 6th character of the **REF.** define its electrical predisposition.

Legend

Type

GW Laboratory
WD hospital

Series

1245 45cm wide, without drying system, AISI 316 stainless steel washing chamber.
0260 60cm wide, without drying system, AISI 304 stainless steel washing chamber.
1260 60cm wide, without drying system, AISI 316 stainless steel washing chamber.
4260 60cm wide, with forced-air drying system.
4290 90cm wide, with forced-air drying system and side cabinet to take detergent jerry cans.

1st character: separator

- Fixed field

2nd character: detergent dispensing configuration

S Peristaltic pumps P1 and P2 installed
P Peristaltic pumps and special equipment for Petrol sector installed
0 Powder detergent dispenser in inner door and peristaltic pump P2 installed

3rd character: whether or not steam condenser is installed

C Steam condenser present
0 No steam condenser

4th character: separator

- Fixed field

5th character: electrical connection

0 Three-Phase with Neutral (configurable)
1 Single-phase electrical connection.

6th character: mains frequency

0 50 Hz
6 60 Hz

7th character: Chamber and inner door materials

0 Chamber and inner door STD, AISI 316
J Chamber and inner door AISI 304
G Chamber in AISI 316, inner door in AISI 316 and Glass (G: Glass)

E.g. **REF.** GW1260-SC-000

Product features:

S -> Peristaltic pumps P1 and P2 installed

C -> Steam condenser present

0 -> Three-Phase with Neutral (configurable)

0 -> 50Hz

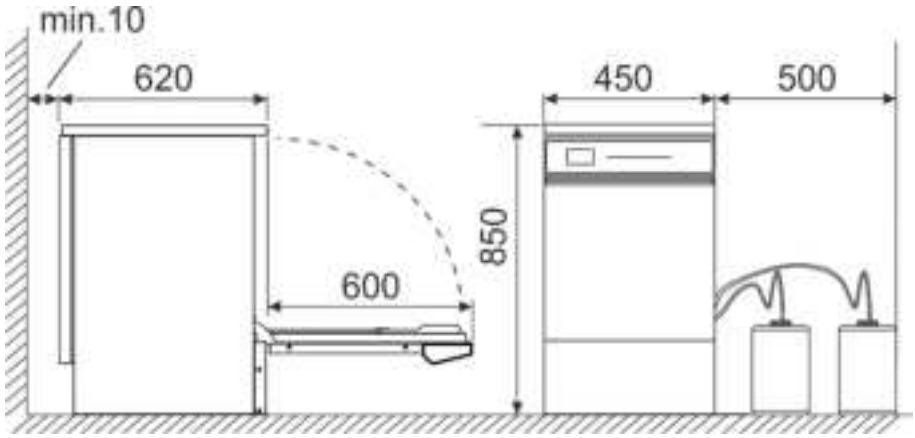
0 -> Chamber and inner door STD, AISI 316

2 PRODUCT DIMENSIONS

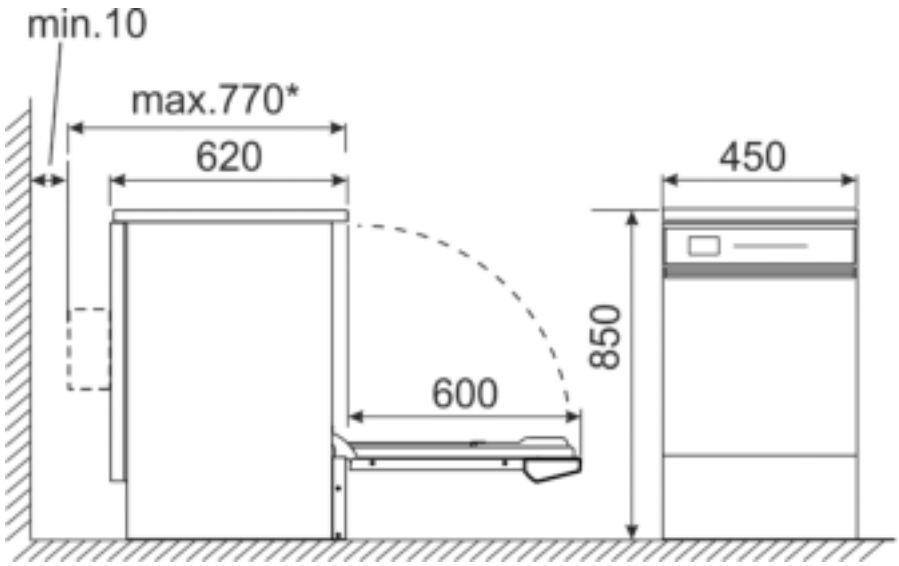
2.1 45cm wide Products: GW1245

N.B.: All dimensions are in mm.

Standard product dimensions
Simplified diagram, overall dimensions of standard product. The space considered for the jerry cans at the side is guideline.



Product dimensions if optional components are installed



** The greater depth of 770mm refers to the product when optional **PAD1** is installed.*

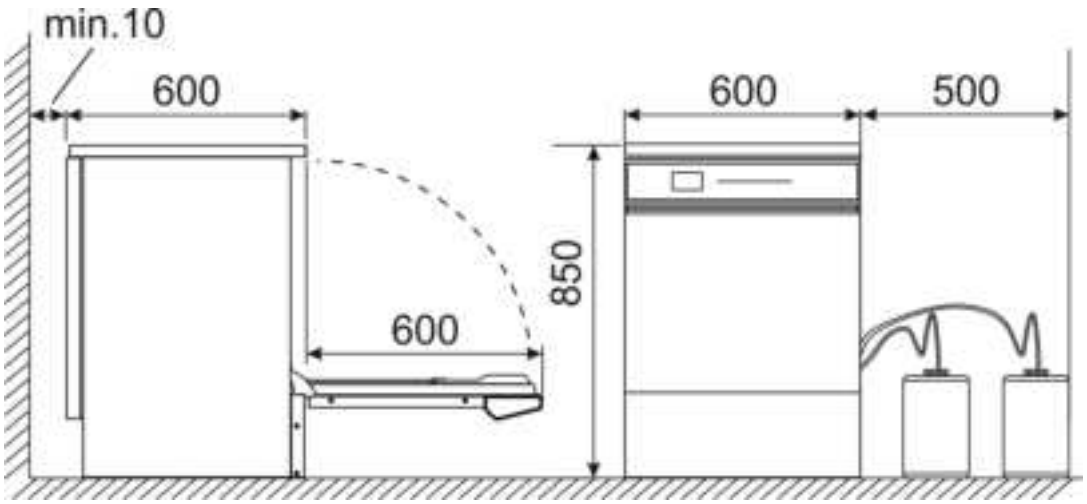
***Note 1**: optional PAD1 is mounted on the rear of the device.*

***Nota 2**: enough space must be added at the side to take the detergent jerry cans (they can be placed on either the left or the right of the device). 500 mm is recommended.*

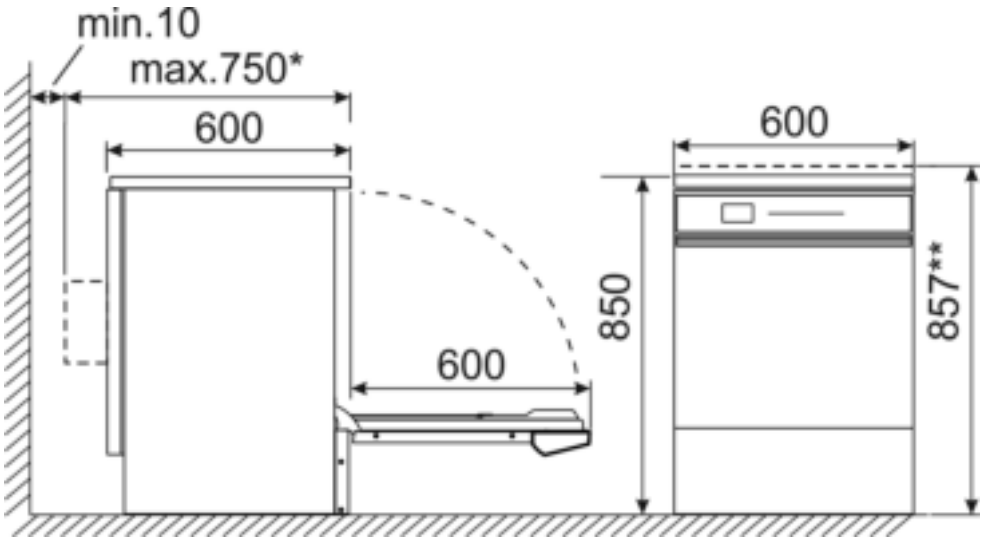
2.2 60cm wide Products: GW0260, GW1260, GW4260, WD1260, WD4260

N.B.: All dimensions are in mm.

Standard product dimensions
Simplified diagram, overall dimensions of standard product. The space considered for the jerry cans at the side is guideline.



Product dimensions if optional components are installed



** The greater depth of 750mm refers to the product when optional **PAD1** or the optionals associated to peristaltic pumps P3 or P4 are installed.*

*** The greater height H=857mm refers to the product when the **Aquastop** optional is installed.*

***Note 1**: for special requirements, the device can be requested with top of reduced height: in this case the height of the device is 30mm less than shown.*

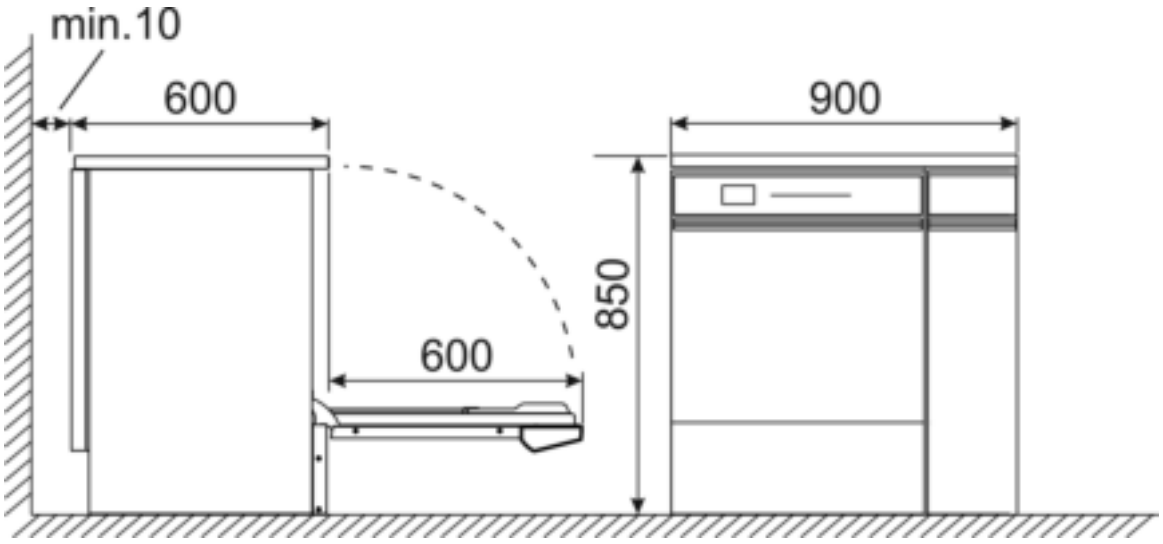
***Note 2**: optionals such as P3, P4 and PAD1 are mounted on the rear of the device.*

***Nota 3**: enough space must be added at the side to take the detergent jerry cans (they can be placed on either the left or the right of the device). 500 mm is recommended.*

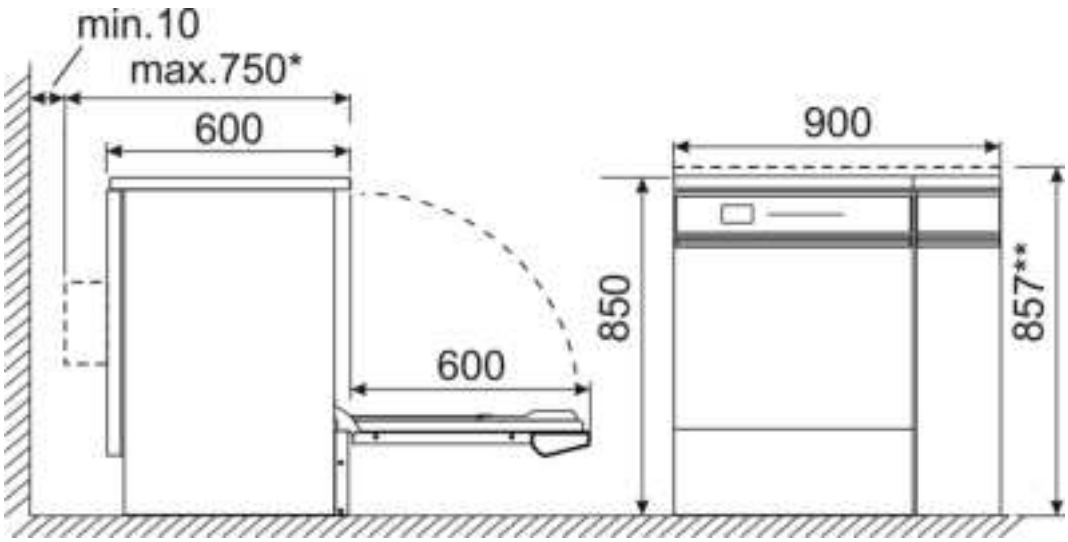
2.3 90cm wide Products: GW4290, WD4290

All dimensions are in mm.

Standard product dimensions
Simplified diagram, overall dimensions of standard product. The side cabinet, on the right, contains the detergent jerry cans.



Product dimensions if optional components are installed



** The greater depth of 750 mm refers to the product when optional **PAD1** is installed; on these 90 cm models installation of the optional peristaltic pumps P3 or P4 does not imply an increase in depth, as they are mounted in the side cabinet.*

*** The greater height H = 857 mm refers to the product when the **Aquastop** optional is installed.*

***Note 1**: for special requirements, the device can be requested with top of reduced height: in this case the height of the device is 30mm less than shown.*

3 WEIGHT OF DEVICES AND STAINLESS-STEEL MATERIALS

[Values in kg]

Model type	**45cm wide models**	**60cm wide models**	**60cm wide models**	**90cm wide models**
Model name	GW1245	GW0260	GW1260, GW4260, WD1260, WD4260	GW4290, WD4290
Weight when empty [no load in device]	56	72	72	100
Weight when packed	66	84	84	116
Maximum weight in use [E.g. for 60cm models: +37 kg max load+10 litres of water intake] [For 4290, also add +20 kg, detergent jerry cans]	**79**	**119**	**119**	**167**
Max load on floor	**280kg/m2**	**330 kg/m²**	**330 kg/m²**	**310 kg/m²**
Standard Washing chamber	AISI316L	AISI304	AISI316L	AISI316L
External panelling	AISI304	AISI304	AISI304	AISI304

4 TECHNICAL CHARACTERISTICS

4.1 WATER CONNECTIONS

"CW" COLD WATER	
Connection required:	3/4" – DN20
Flow-rate required [min – max]:	4 – 12 lt/min
Pressure [min – max]:	100 – 600 kPa (1 – 6 bar)
Temperature [min – max]:	8 – 35 °C (46 °F – 77 °F)
Max hardness:	42 °f [To reduce wear of the steam condenser, if installed, hardness below 15°f is recommended.]
Iron Fe2+ / Fe3+ [max]	0.5 ppm
pH	7 – 8
Minimum microbiological quality required:	"Potable water" (ref. data limits in European Directive 98/83/EC – Italian Legislative Decree 31/2001)
"HW" HOT WATER – OPTIONAL FEATURE (ref. kit. T4260AC)	
Connection:	3/4" – DN20
Flow-rate required [min – max]:	4 – 12 lt/min
Pressure [min – max]:	100 – 600 kPa (1 – 6 bar)
Temperature [min – max]:	8 – 50 °C (46 °F – 140 °F)
Max hardness:	42 °f
Iron Fe2+ / Fe3+ [max]	0.5 ppm
pH:	7 – 8
"DW" DEMINERALISED WATER	
Connection:	3/4" – DN20
Min/max flow-rate:	4 – 12 lt/min
Pressure [min – max]:	100 – 600 kPa (1 – 6 bar)
Temperature [min – max]:	8 °C – 50 °C
Max hardness:	0.5 °f (0 ppm $CaCO_3$)
Max. conductivity and pH:	30 µS/cm / 5 ÷ 8 pH
TDS max	40 mg/litre

"D" DRAIN CONNECTION	
Drain hose connection:	Rubber fitting for hose connector Ø 21 mm (1/2").
Max temperature*:	
GW1245, GW1260, GW4260, GW4290	95°C *
GW0260	85°C *
Max flow-rate:	25 litres/min
Max height of drain above supporting surface:	800 mm

** The authorised engineer can activate the drain cooling function and limit the maximum temperature to lower levels, up to 65°C.*

4.2 ELECTRICAL CONNECTIONS – 45cm wide models [GW1245]

Connection to 230 V single-phase	
Power supply:	230V ~ / 50Hz / 13A /2950W
Electrical protection required within system:	1P+N, 16A

4.3 ELECTRICAL CONNECTIONS – 60cm and 90cm wide models

4.3.1 50 Hz version

Connection to 400 V three-phase with neutral – Standard*	
Standard power supply:	400 V 3N~ / 50 Hz / 12 A / 7000 W
Electrical protection required within system:	3P+N, 16 A
Connection to 230 V three-phase without neutral	
Power supply:	230 V 3~ / 50 Hz / 19 A / 7000 W
Electrical protection required within system:	3P, 20 A
Connection to 230 V single-phase, lower power	
Power supply:	230 V ~ / 50 Hz / 12 A / 2800 W
Electrical protection required within system:	1P+N, 16 A

** **The electrics of the Standard version can be configured**, by **technical staff authorised** by the manufacturer, for the following power supply types:*
- three-phase without neutral (ref. WD-EC-3, WD-EC4290-3);
- single-phase, lower power (ref. WD-EC-1, WD-EC4290-1).

4.3.2 60 Hz version

Connection to 380 – 400 V three-phase with neutral – Standard 60 Hz*	
Standard power supply:	380 – 400 V 3N~ / 60 Hz / 12 A / 7000 W
Electrical protection required within system:	3P+N, 16 A
Connection to 220 – 230 V three-phase without neutral	
Power supply:	220 – 230 V 3~ / 60 Hz / 19 A / 7000 W
Electrical protection required within system:	3P, 20 A
Connection to 220 – 230 V single-phase, lower power	
Power supply:	220 – 230 V ~ / 60 Hz / 12 A / 2800 W
Electrical protection required within system:	1P+N, 16 A

** **The electrics of the Standard version can be configured**, by **technical staff authorised** by the manufacturer, for the following power supply types:*
- three-phase without neutral (ref. WD-EC-3, WD-EC4290-3);
- single-phase, lower power (ref. WD-EC-1, WD-EC4290-1).

4.4 AMBIENT CONDITIONS

Use	Indoor
Max altitude	Up to 1,000 m above sea level
Temperature [min – max]	From 5 °C to 40 °C
Minimum lighting level required	300 lx
Max humidity	80% for temperatures up to 31 °C with linear decrease to 50% at the temperature of 40 °C.
Installation category (or surge category)	II
Electrical insulation class (ref. IEC 61140)	I
Degree of pollution	2
Heat emission – device to room, max	600 W (45cm wide models) 900 W (60cm and 90cm wide models)
Max noise level	60 dB (A)
IP Protection Degree of the device	IPX0

5 CONNECTIONS AREA – ELECTRICITY AND WATER

The diagram provides guidance on the permitted areas for:

1. **Electrical connection.**
2. **Water intake connection** – cold, hot and demineralised water CW, HW (optional) and DW taps.
3. **Drain connection** – D (Drain).

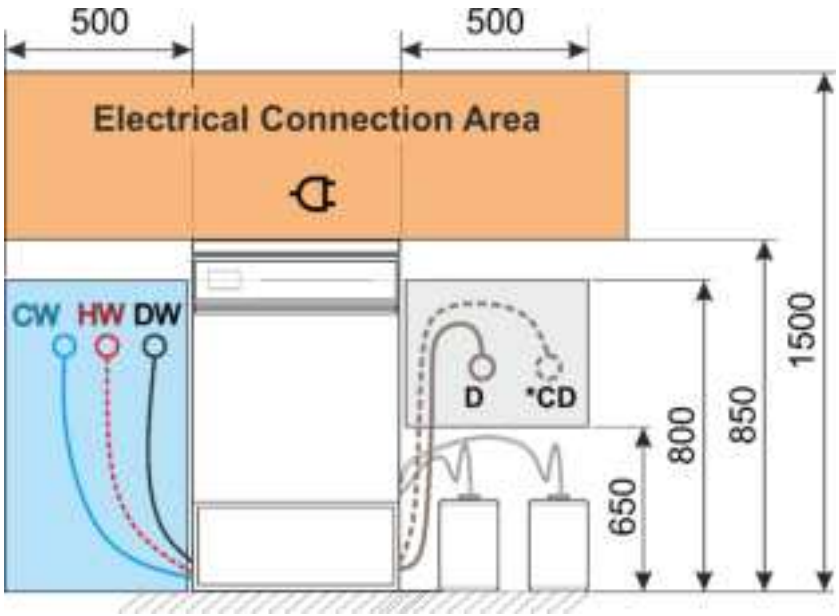
⚠	***WARNING*** The water intake taps cocks must be located next to the device, in an easily accessible position. The taps and hoses must be positioned in such a way **that removing the hoses from the taps** for service procedures **does not cause water spills onto the device.**

Electrical Connection Area: recommended area for the device's electrical connection, depends on the accessibility of the connection and the length of the power supply cable provided.

Tab - Legend of the abbreviations used.

ID	DESCRIPTION
DW	Demi water intake hose
CW	Cold mains water intake hose
HW	Hot mains water intake hose (optional).
C	Power supply cable
D	Water drain hose
CD	steam condenser drain pipe – cd (condenser drain). [Only the 45cm model, GW1245, in the configuration equipped with steam condenser, e.g. REF. *GW1245-SC-100* includes the presence of this additional exhaust pipe].
P1	Peristaltic pump P1 intake hose and P1 jerry can detergent level sensor cable
P2	Peristaltic pump P2 intake hose and P2 jerry can detergent level sensor cable
P3/P4	Peristaltic pump P3/P4 intake hose and P3/P4 jerry can detergent level sensor cable
H	Optional communications ports: RS-232 for printer connection and LAN for networking.

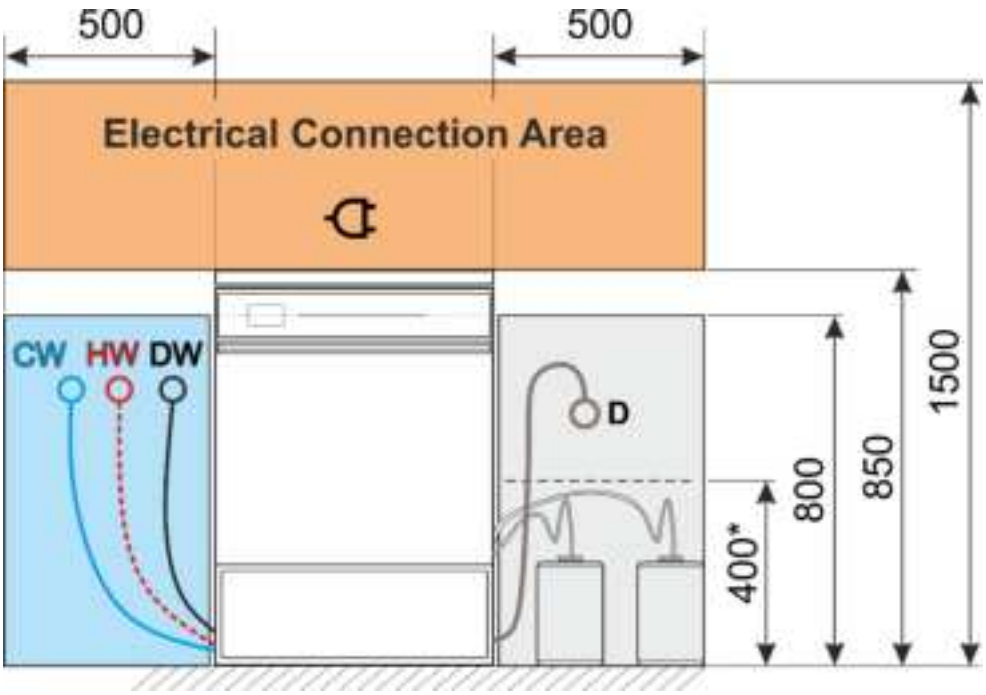
5.1.1 45 cm WIDE MODELS [GW1245]



Simplified diagram: the water intake and drain connections can be provided on the left or right of the device.

***Note**: **CD** - steam condenser drain connection - is only present on the 45cm configurations equipped with steam condenser e.g. REF GW1245-S**C**-100.

5.1.2 60cm and 90cm WIDE MODELS [GW0260, GW1260, GW4260, GW4290, WD1260, WD4260, WD4290]

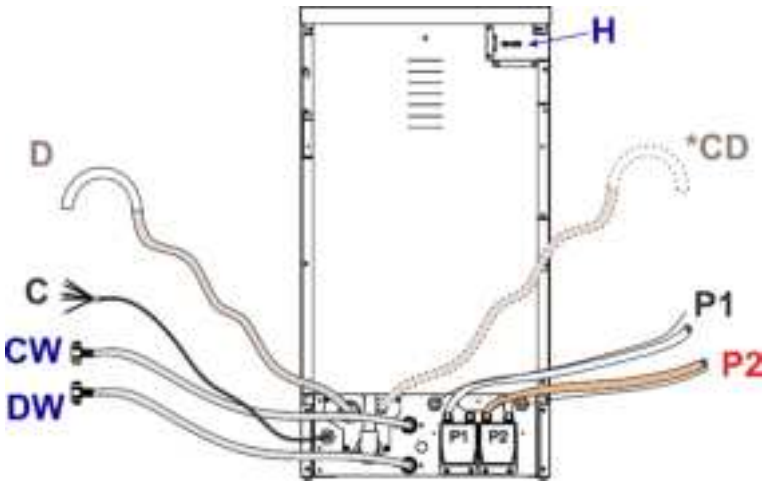


Simplified diagram: the water intake and drain connections can be provided on the left or right of the device.

N.B.: the **drain** connection **D** must be at a height of at least 400 mm only on models without steam condenser, not equipped with integral drain trap.

5.2 CONNECTIONS 45cm MODELS [GW1245]

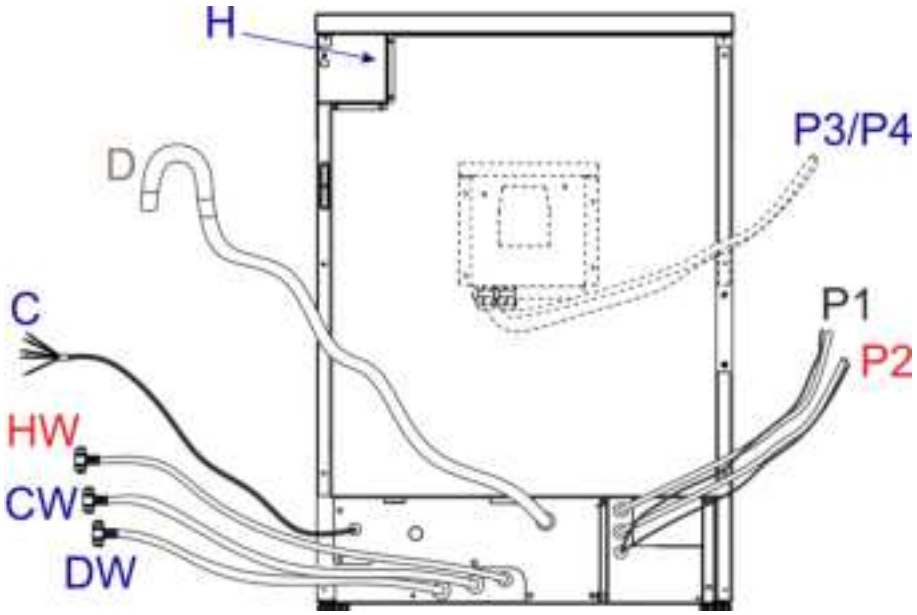
Rear view



***Note**: **CD** - steam condenser drain connection - is only present on the 45cm configurations equipped with steam condenser e.g. REF GW1245-S**C**-100.

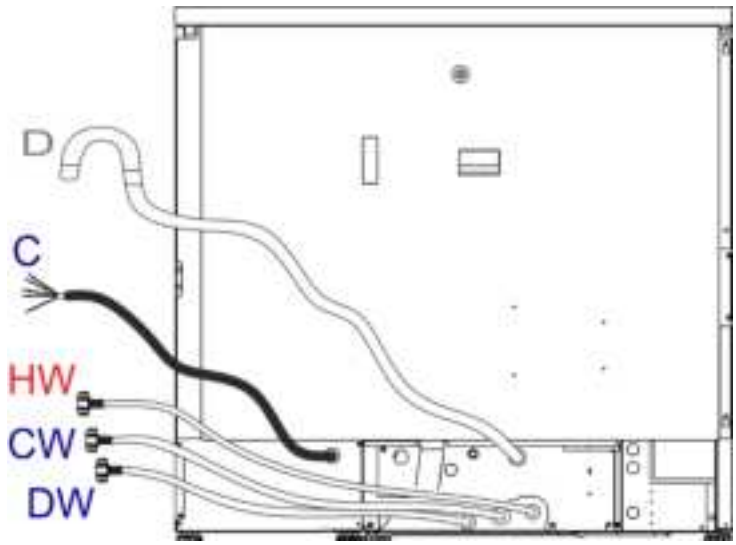
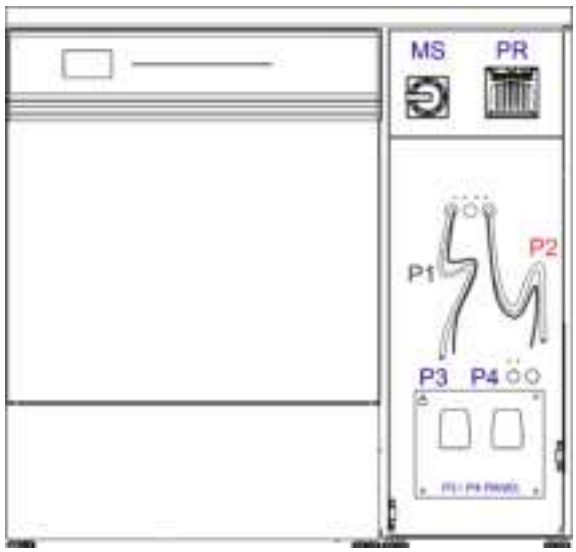
5.3 CONNECTIONS - 60cm MODELS

Rear view



5.4 CONNECTIONS - 90 CM WIDE DEVICE

[The side hatch of the cabinet is not shown.].

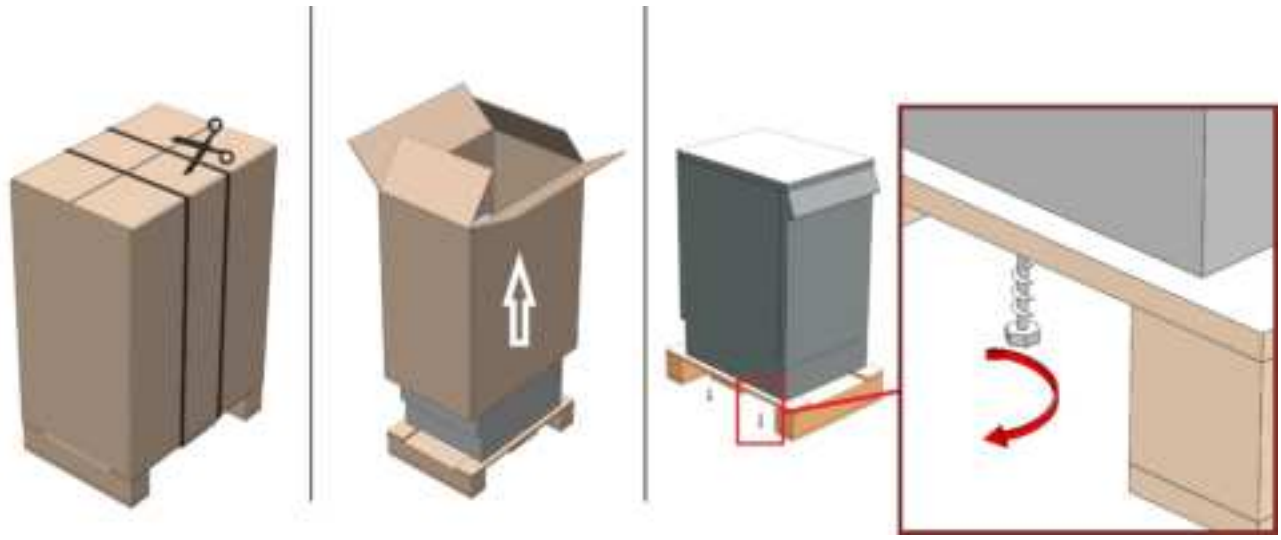
90cm DEVICE - rear view	90cm DEVICE - front view
	

6 INSTALLATION INSTRUCTIONS

6.1 REMOVING THE PACKAGING AND PREPARING FOR HANDLING

Use a **forklift or a pallet truck** for all product handling phases.
Remove the packaging as shown below and deal with its parts in accordance with waste recycling regulations.
To remove the packaging:

1. Remove the plastic straps
2. Lift the cardboard box off
3. Undo the screws which fix the device to the wooden pallet



Guideline illustration of packaging remove phases

6.2 POSITIONING THE DEVICE

During installation, the protective film must be removed from the steel surfaces.
The rear of the product must be placed near a wall. The sides may be flush with the adjacent cabinets, taking care to leave the steam vent on the rear unobstructed. The rear wall must be in masonry or non-porous material. **Ensure that the flow of steam emitted is not directed at electrical panels or sockets behind the device.**

The water intake and drain hoses can be fitted pointing to the left or right. The set of water connection fittings, seals and hose ties, is inside the washing chamber.
If ordered in the appropriate version, the device can be installed built under a worktop; installation must be carried out by authorised staff.

LEVELLING
After positioning the device, screw the feet in or out to adjust its height.
Use a spirit level to level it: maximum tolerance angle 0.5°, corresponding to a maximum difference in height between opposite corners of the device of about 5 mm).
Accurate levelling is important to enable the device to function correctly.

WARNING
Any adjustments and maintenance must be done with the device disconnected from its power supply.

6.3 INSTALLATION ON STAND

The device can be installed on a stand with height X = 400 mm.

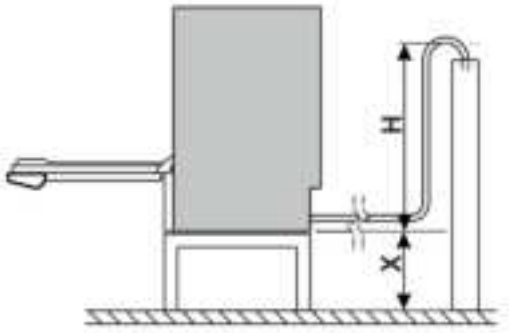
Note: The stand is not provided for the 45cm models, GW1245.

Fig. 1 – *Illustration of Stand B6040L.*

The maximum and minimum heights **H** indicated, for the drain connection, must be recalculated accordingly.

Example:

Without stand **H** max = 800 mm
With stand **H max + X** = 1200 mm



For 60CM WIDE PRODUCTS (E.g. GW1260 – GW4260): ref. code **B6040L** or **T6040**.
For 90 CM WIDE PRODUCTS (E.g. GW4290): ref. code **B9040L**.

Consult the manufacturer for information on compatibility.
Only use stands authorised by the manufacturer.

6.4 ELECTRICAL CONNECTION REQUIREMENTS

WARNING
The electrical system must comply with the regulations in force.
All electrical checks and system installation must be carried out to the proper standard by skilled staff qualified to work on electrical systems.
The skilled staff are responsible for ensuring that the ground connection is in good working order.

CONNECTION TYPE – 45cm model [GW1245]
The device in its standard version is supplied with a Shuko type plug.

CONNECTION TYPE – 60cm and 90cm models
The standard version of the device is supplied without a plug, with a cable with insulated wire terminals.
The device's electrical connection must be made by means of a plug suitable for the cable and appropriately rated for the device's electrical characteristics.
The plug must be supplied and fitted by the customer.
Industrial plugs (IEC 60309) are recommended; they are designed to function safely in difficult environmental conditions and to prevent accidental disconnections. They can only be disconnected from the socket if there is no power present.

DISCONNECTING DEVICE - REQUIRED for 45cm and 60cm models.

*A **DISCONNECTING DEVICE** must be installed for each device:*

a. *Multi-phase: must break all live conductors;*
b. *Easily accessible to the user;*
c. *Easily operated (no tool must be required);*
d. *Located in close proximity to the device;*
e. *Clearly marked as the device circuit-breaker.*

***90cm models, GW4290 and WD4290**: these models are already equipped with a disconnecting device. The characteristics listed above also apply to the main switch on the machine: do not position objects in such a way as to make accessibility difficult.*

CIRCUIT-BREAKER - RECOMMENDED
These devices are fitted with fuses as protection devices: however, a specific overload cutout suitably rated to protect the equipment should still be installed for each device, considering the stated electrical characteristics.

For the circuit-breaker: the OFF position must always be clearly marked.
By installing the circuit-breaker, appropriately marked, on the panel, the task for the competent personnel of identifying the device that caused the possible intervention is facilitated.
Note: When present, the thermomagnetic switch can also take on the function of a disconnecting device, respecting the characteristics listed above.

6.5 WATER CONNECTION REQUIREMENTS

6.5.1 WATER INTAKE

The hoses are designed for connection to taps with 3/4'' gas threaded fittings.

The **standard** device has No. 2 hoses, for **cold** and **demineralised** water.
The most complete version of the device has No.3 intake hoses.
The **hot water** connection is optional and is only provided on models equipped with **optional** kit "***T4260AC***".
[The hot water connection is never provided for the 45cm models, GW1245.]

	The machines are equipped with backflow prevention devices compliant with EN 61770, in accordance with the requirements of EN 61010-2-040. If required by local regulations, the technician who plumbs in the appliance must include an additional suitable backflow prevention device, at the customer's expense.

Use the filters provided, "A" in the illustration, when connecting the hoses.

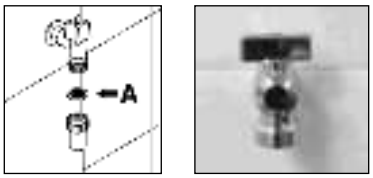


Fig. 2 – Fit the filters provided when connecting the intake hose.

Notes:

- If the hose is new or has been unused for a long time, before connecting it make sure that the water is clear and free of impurities.
- If the supply system does not provide both hot and cold water connections, the two hoses must be connected together by means of the "Y" fitting provided with the optional "T4260AC".

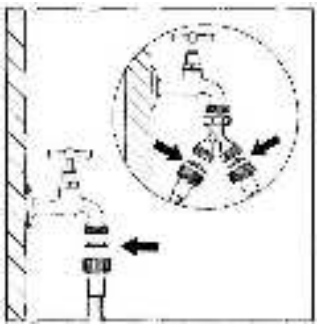


Fig. 3 – Water intake Y" connection, with filters fitted.

The characteristics of the intake water must comply with the requirements stated in the product's TECHNICAL SPECIFICATIONS tables.

	WARNING – MAINTENANCE OF WATER CHARACTERISTICS ***Regular checks must be made*** *(e.g. every 6 months/1 year) on the intake water to* ***ensure that the initial values are maintained,*** *to allow the device or* ***treatment system*** *parameters to be corrected if the characteristics change.*

6.5.2 DEMINERALISED WATER REQUIREMENTS

DW: DEMINERALISED WATER – optional connection, strongly recommended
If available, the use of demineralised water is recommended to ensure that washing is optimal from the chemical point of view and for better elimination of residual salts from the mains water supply. However, dirt residues will still be effectively removed even if ordinary mains water is used.
DEMINERALISED WATER NOT AVAILABLE *If demineralised water is not available, do not connect the relative hose to hot and/or cold water intakes. Leave the "demineralised water" hose disconnected and* ***contact the authorised engineer to have the device's parameters set correctly.***

6.5.3 UNPRESSURISED DEMINERALISED WATER – "PAD" ACCESSORY

Only ff the demineralised water connection is not pressurised, a special booster pump "PAD", available in due versions "PAD1" and "PAD2X", can be installed.

- Pump "**PAD1**" is installed on the outside of the rear of the device.
- Pump "**PAD2X**" is mounted externally and remote from the device. It can only be installed in combination with kit "**PAD2R**".

TYPE OF PAD	
"FLOOR" TANK	**"RAISED" TANK**
PAD2X + PAD2R	PAD1

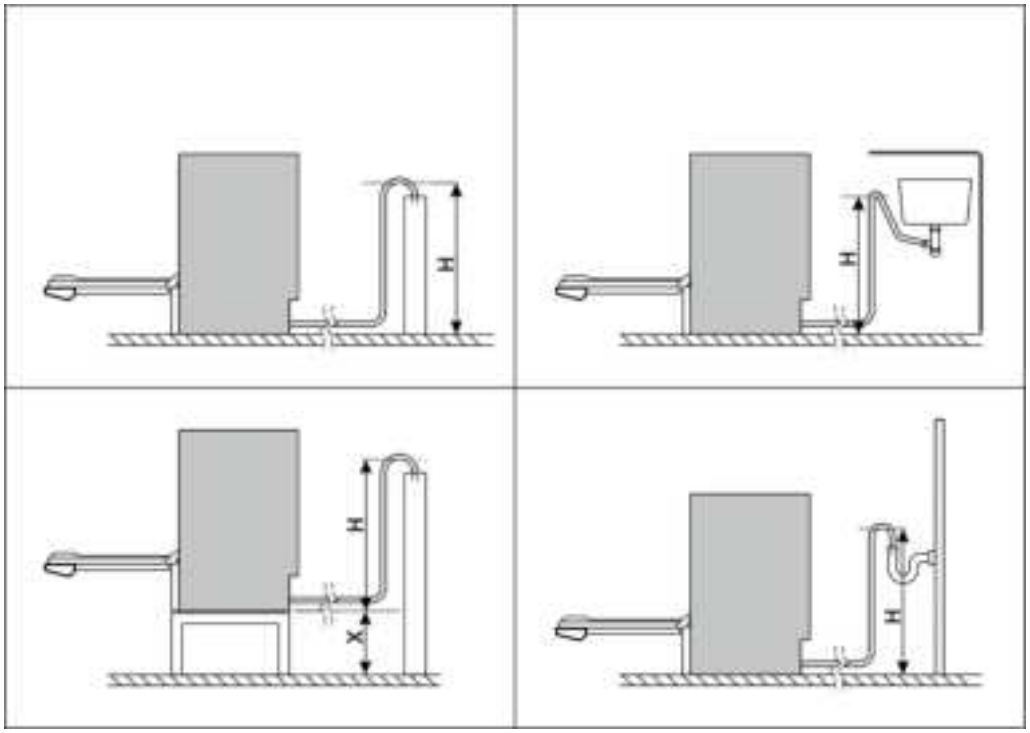
⚠	***WARNING*** ***WHEN INSTALLING A PAD, CHECK THAT:*** *The intake pressure is less than 1 bar and greater than 0.1 bar.* ***IN COMBINATION WITH AN UNPRESSURISED TANK*** *The base of the tank must be at a height L such that:* ***L > 100 cm*** *The height is measured between the surface on which the device stands and the bottom of the tank. This height ensures that water is supplied to the PAD at a pressure of about 0.1 bar.* ***"PAD2X" IN COMBINATION WITH AN UNPRESSURISED TANK*** *If PAD2X is installed, the unpressurised tank may be at the same level as the surface on which the device stands,* ***L ≥ 0****.*

Fig. 4 – Unpressurised tank, height above device installation surface L > 100 cm.

6.6 WATER DRAIN REQUIREMENTS

	WARNING *The drain must comply with international regulations: the manufacturer accepts no liability for pollution caused by misuse of the device.*
	The water drain may contain biological contaminated materials. *It must be managed and treated in accordance with the regulations in force in the country of installation.*
	The end of the drain hose must be permanently connected to the hose fitting using the ties provided. *The drain water reaches high temperatures (ref. Tab. TECHNICAL CHARACTERISTICS).*
	Notes: make sure to use a drain with trap. When installing the drain connection, take the following precautions: • *The drain hose must not have tight bends or constrictions.* • *The difference in height between the end of the drain hose and the surface on which the device is installed must comply with the stated specifications.* • *The end of the hose must never be submerged in water.* • *The internal diameter of the drain pipe must be no less than 40 mm.* • *Installation of a drain pipe 50 mm in diameter is recommended.* • *No extensions must be added to the drain hose supplied with the device. Any extensions may cause problems of flowback into the chamber.*

Fig. 5 – Adapter with connector for 1/2" hose.



Diagrams for correct calculation of the height H of the drain, in various configurations.

6.7 DATA CONNECTIONS

6.7.1 45CM WIDE PRODUCTS: USB PORT

USB port position


6.7.2 45CM WIDE PRODUCTS: Position of optional RS232 and LAN data ports

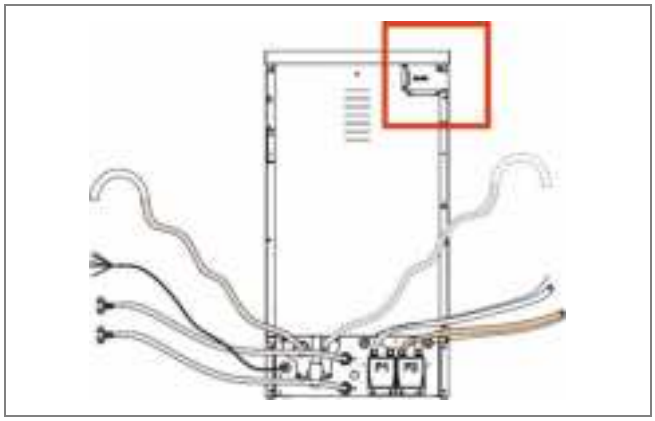


fig. 6 – Position of the RS-232 serial port and the LAN port, both optional accessories, on the rear of the device. The RS232 port is preset for connection of a table-top printer.

6.7.3 60CM WIDE PRODUCTS: USB PORT

USB port position


6.7.4 60CM WIDE PRODUCTS: Position of optional RS232 and LAN data ports

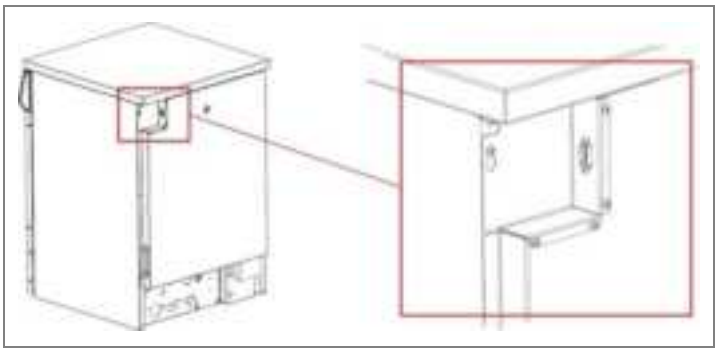


fig. 7 – Position of the RS-232 serial port and the LAN port, both optional accessories, on the rear of the device. The RS232 port is preset for connection of a remote table-top printer.

6.7.5 90CM WIDE PRODUCTS: USB PORT

USB port position


6.7.6 90CM WIDE PRODUCTS: Position of optional LAN port

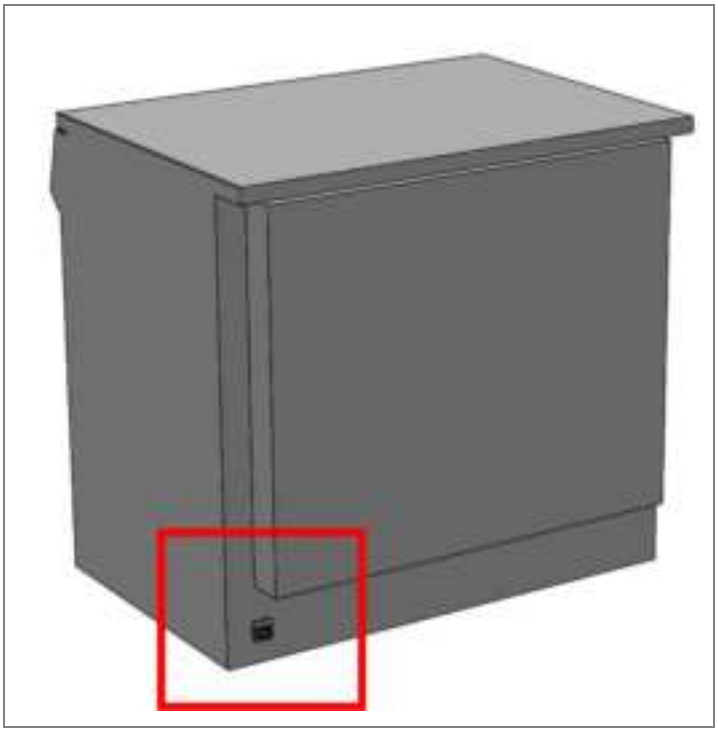


fig. 8 – Position of the optional LAN port on the rear of the device.

[GW4290 and WD4290 does not have an RS232 optional external port as these products are designed for installation of an optional built-in panel printer.]

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