

Rack type dishwasher

Dual-Rinse



EN Installation manual *



Technical drawing of a rectangular structure, likely a component or assembly, showing dimensions and labels.

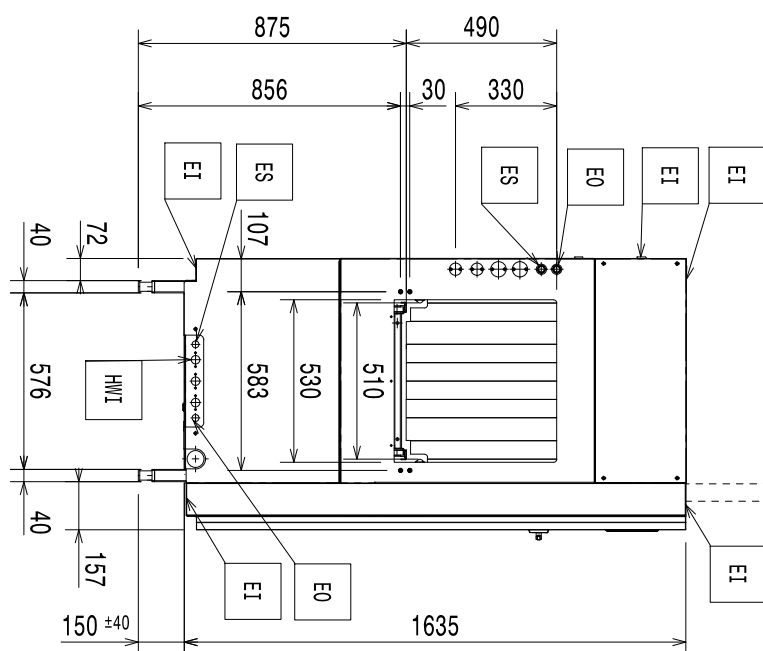
Dimensions:

- Overall width: 1191
- Overall height: 1321
- Internal width (left side): 401
- Internal width (right side): 205
- Internal width (middle): 658
- Internal width (bottom): 797
- Internal width (bottom): 895
- Internal width (bottom): 925
- Internal height (left side): 100
- Internal height (right side): 51
- Internal height (bottom): 5

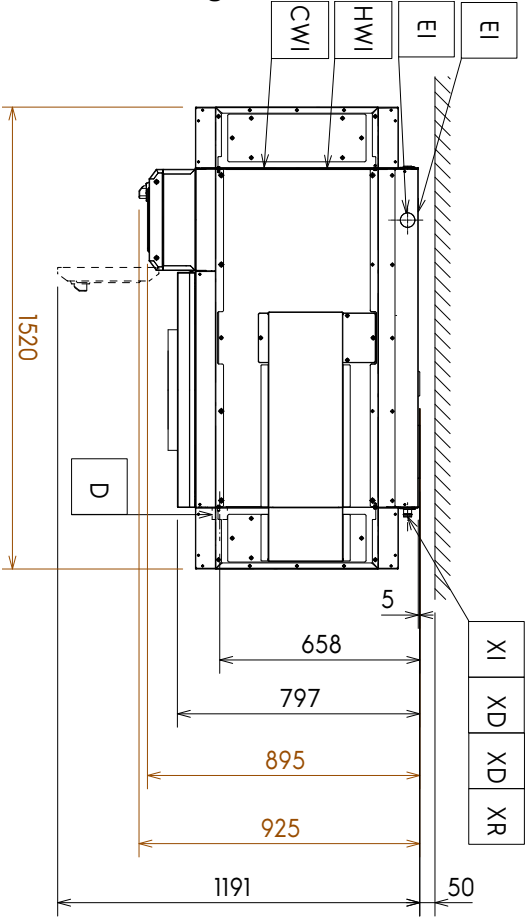
Labels:

- EI (top left)
- HWI (top center)
- EI (top right)
- EI (top right)
- D (left side)
- V (bottom left)
- XI (bottom right)
- XD (bottom right)
- XD (bottom right)
- XR (bottom right)

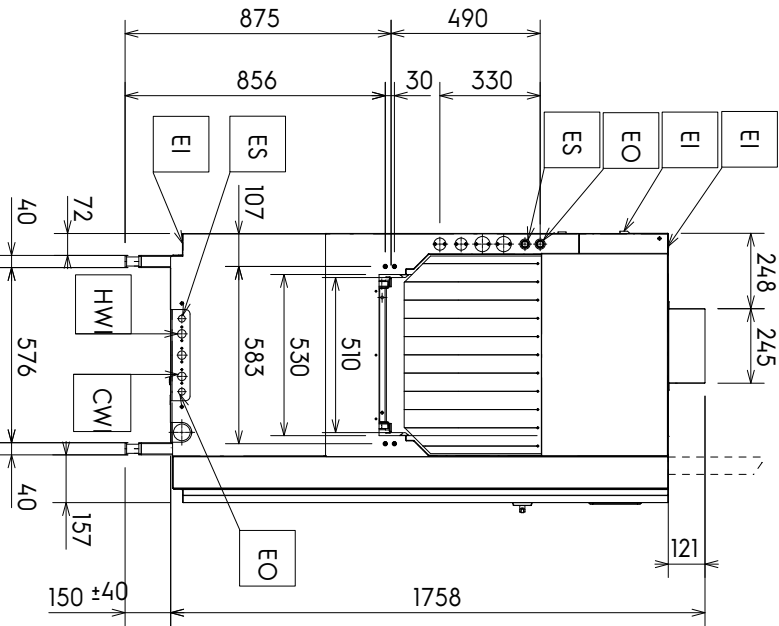
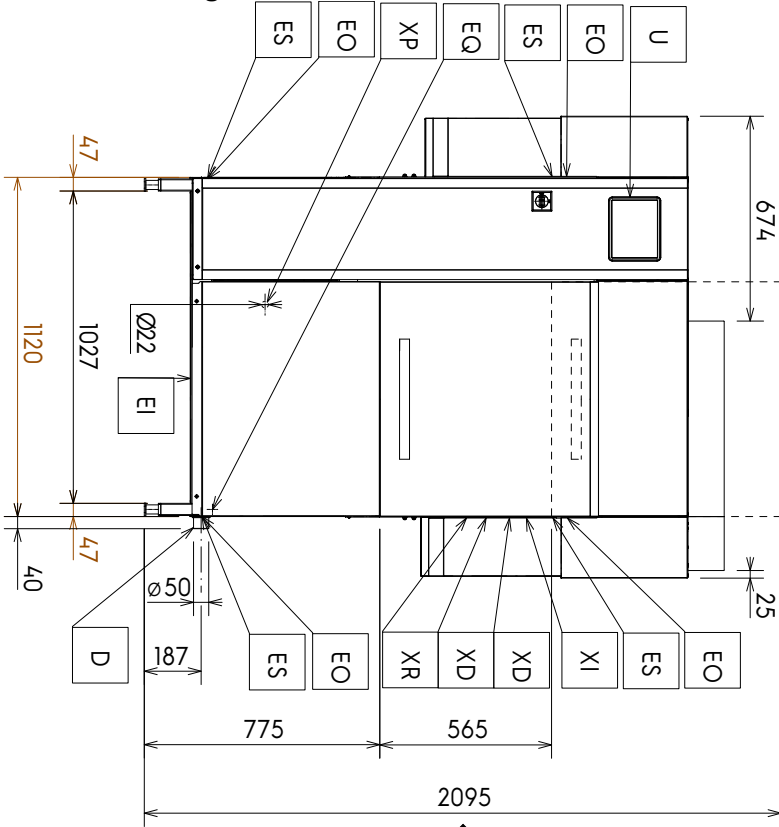
Technical drawing of the front view of a machine. The overall width is 2095 and the overall height is 1121. The machine has a main body with a width of 775 and a depth of 565. The top section has a height of 47. The bottom section has a height of 40. The machine features a control panel on the right side with a display and buttons. The control panel has a width of 200 and a height of 40. The machine is equipped with various components labeled with callouts: U, E0, ES, EQ, XP, E0, ES, EI, EI, D, ES, E0, XR, XD, XD, XI, ES, E0, and V. The machine also has a central door with a handle and a lock. The machine is shown in a perspective view.



Installation diagram

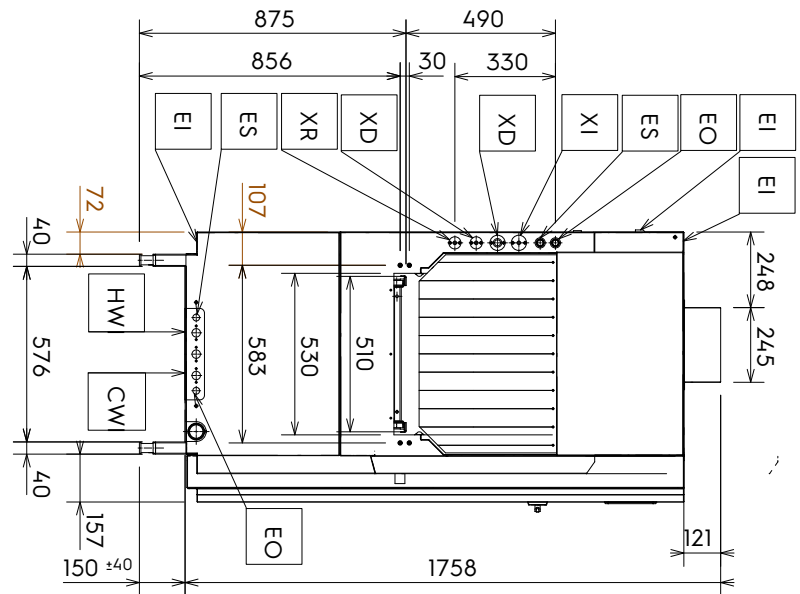


44" right to left with ESD

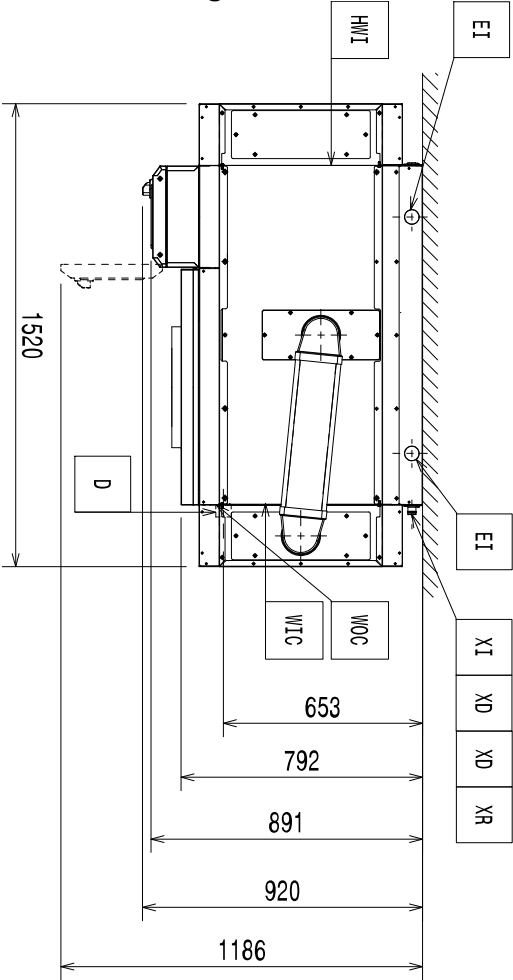


Technical drawing of a window frame showing dimensions and components. The overall width is 1191 and the overall height is 1520. Key dimensions include 925, 895, 797, 658, and 50. Components labeled include XR, XD, XD, XI, EI, EI, CWI, HWI, and D. The drawing shows a cross-section of the window frame with various internal components and a hinged mechanism on the left side.

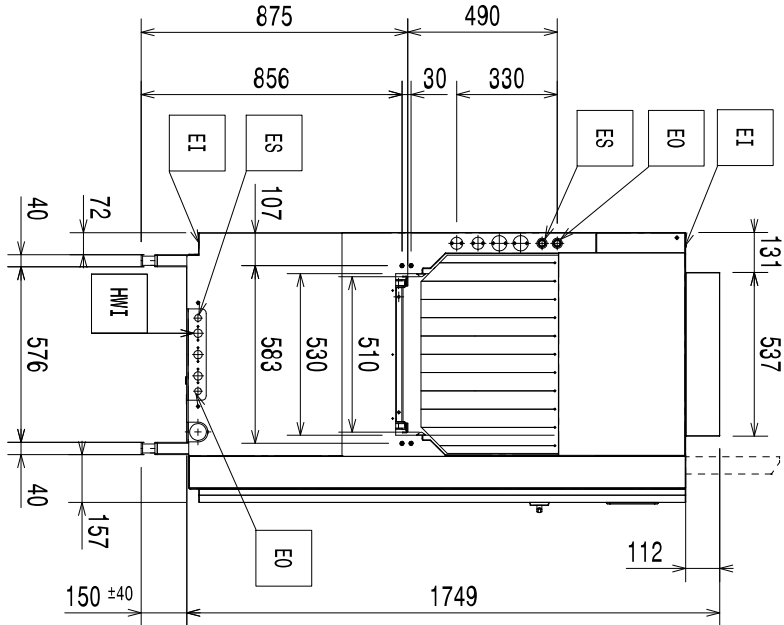
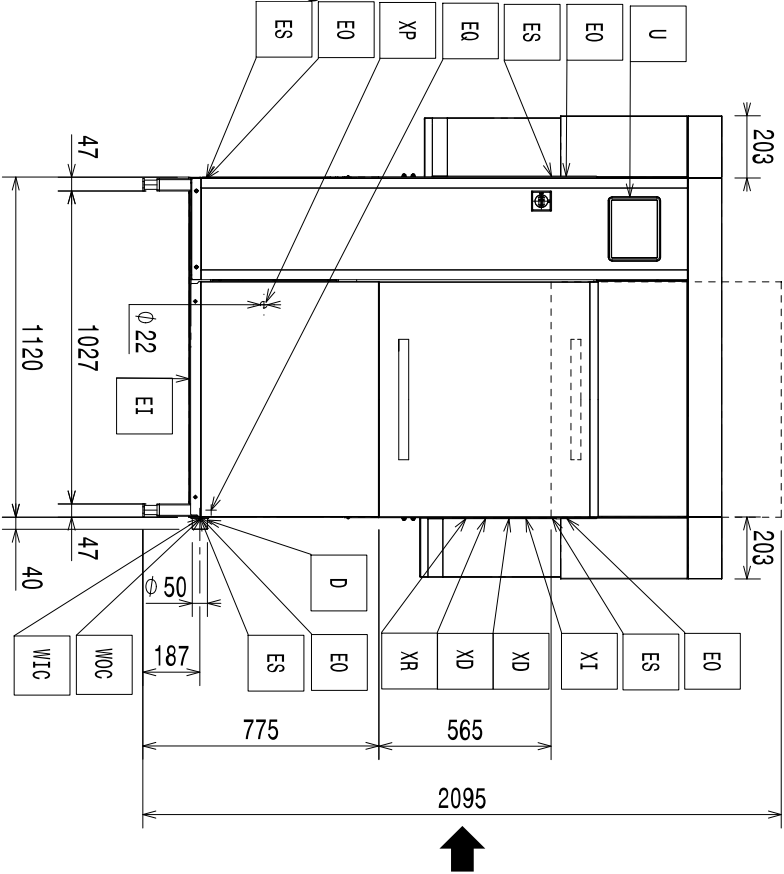
Technical drawing of the front view of a cabinet. The overall width is 2095 mm. The drawing is divided into two main sections by a central vertical line. The left section has a width of 775 mm, and the right section has a width of 565 mm. The total height is 1120 mm. The top section has a height of 187 mm, and the bottom section has a height of 1027 mm. The drawing includes various components labeled with letters: D, ES, EO, U, EI, XP, EQ, ES, EO. Dimensions are given in mm: 40, 47, 187, 25, 50, 1027, 1120, 674, 2095, 775, 565. A large black arrow points downwards at the top center.



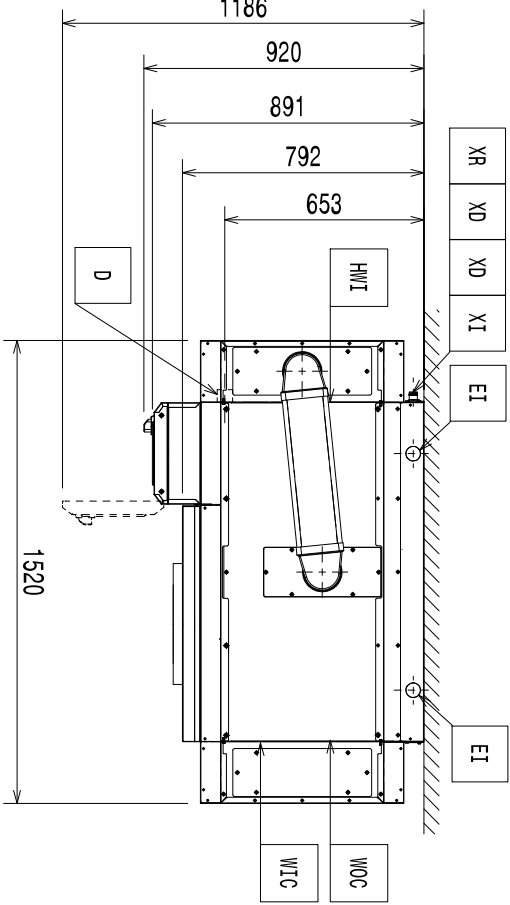
Installation diagram



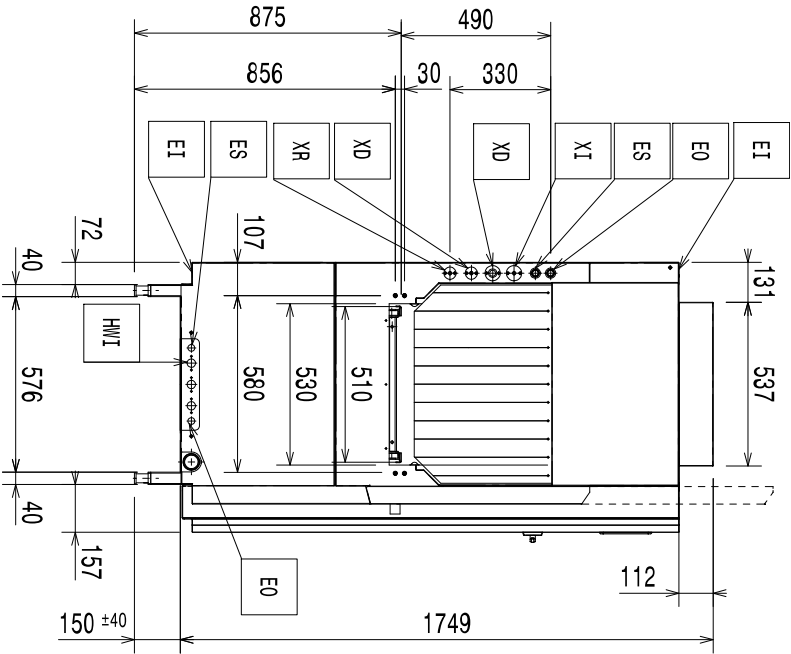
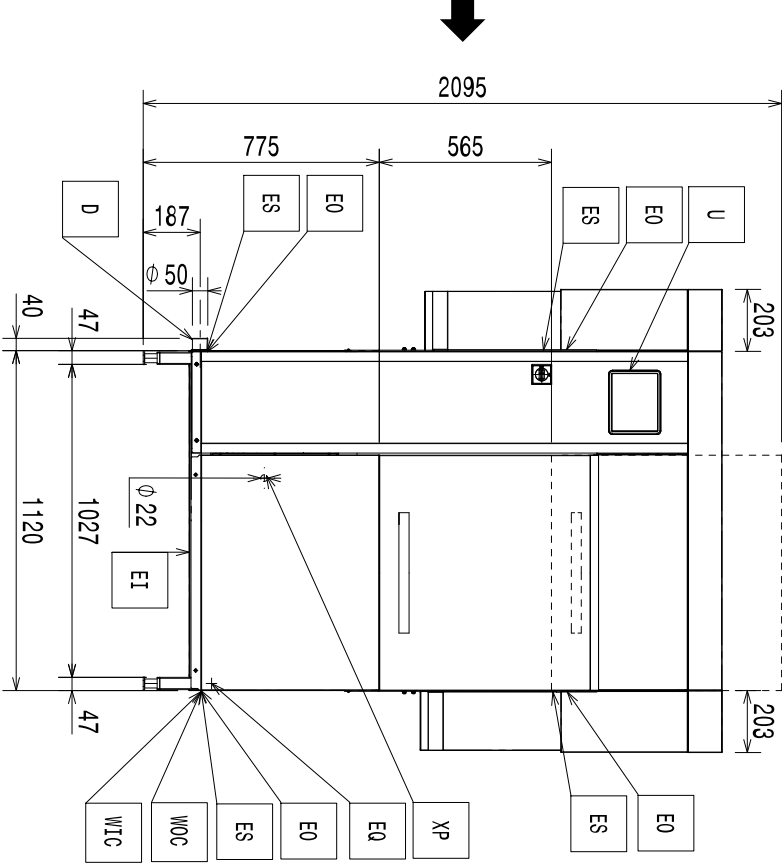
44" Marine right to left with ESD



Installation diagram

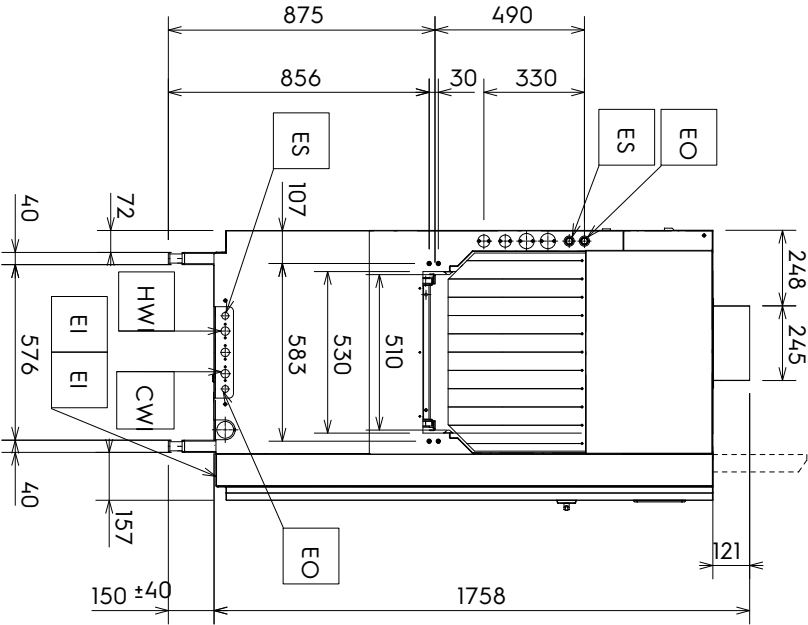
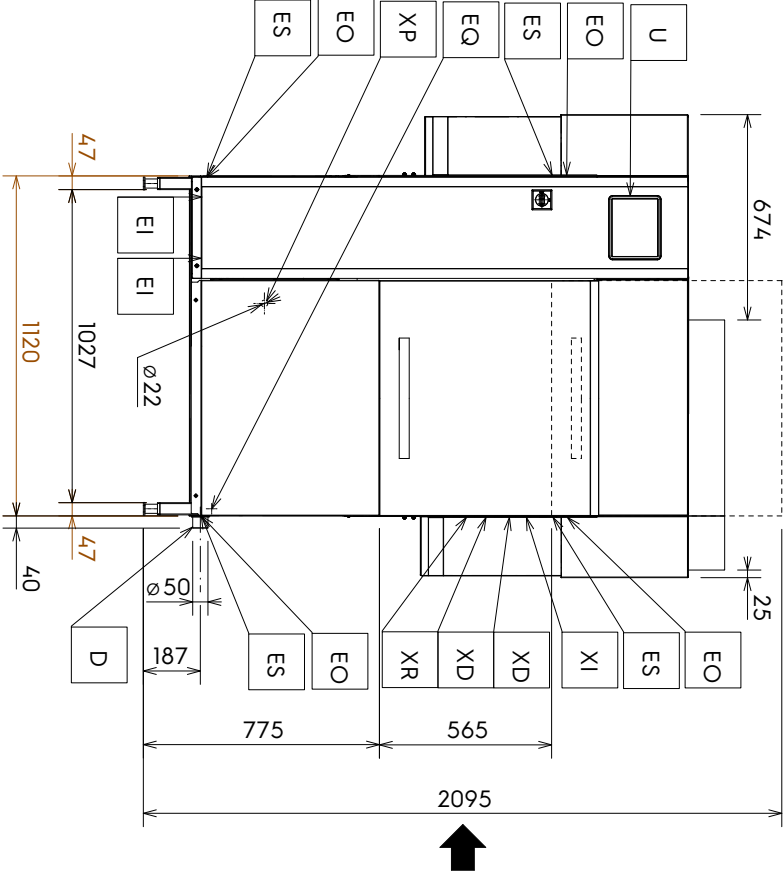
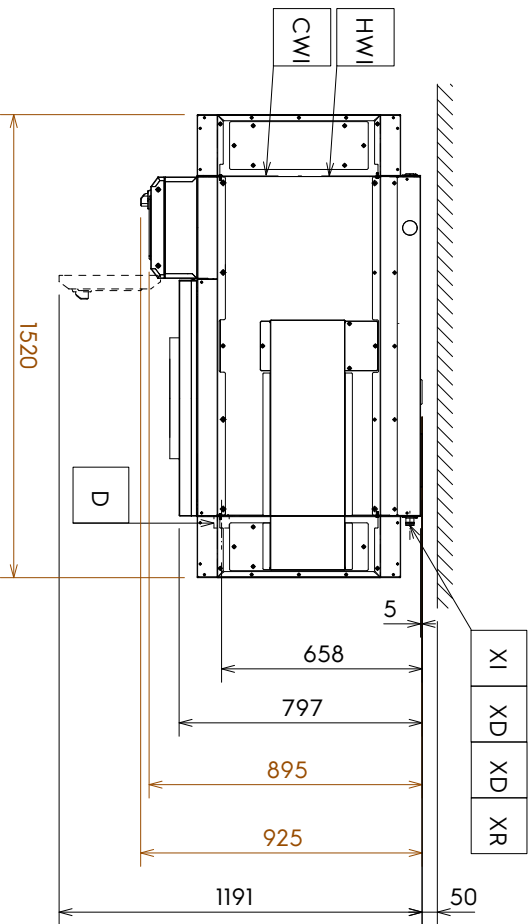


44" Marine left to right with ESD

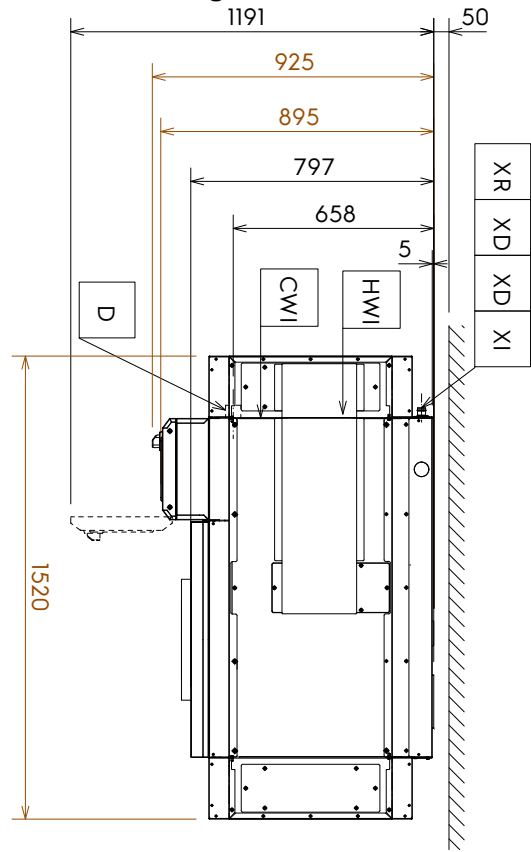


Installation diagram

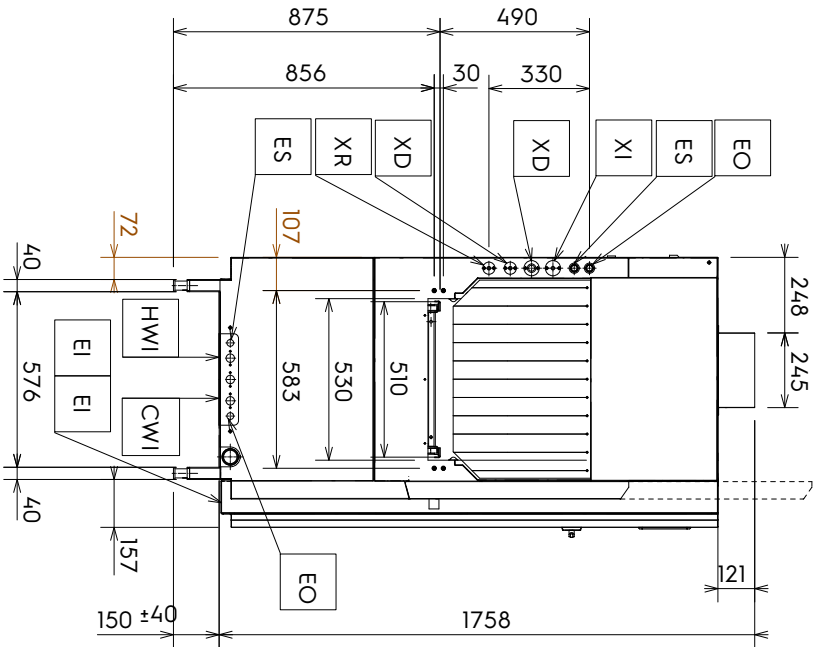
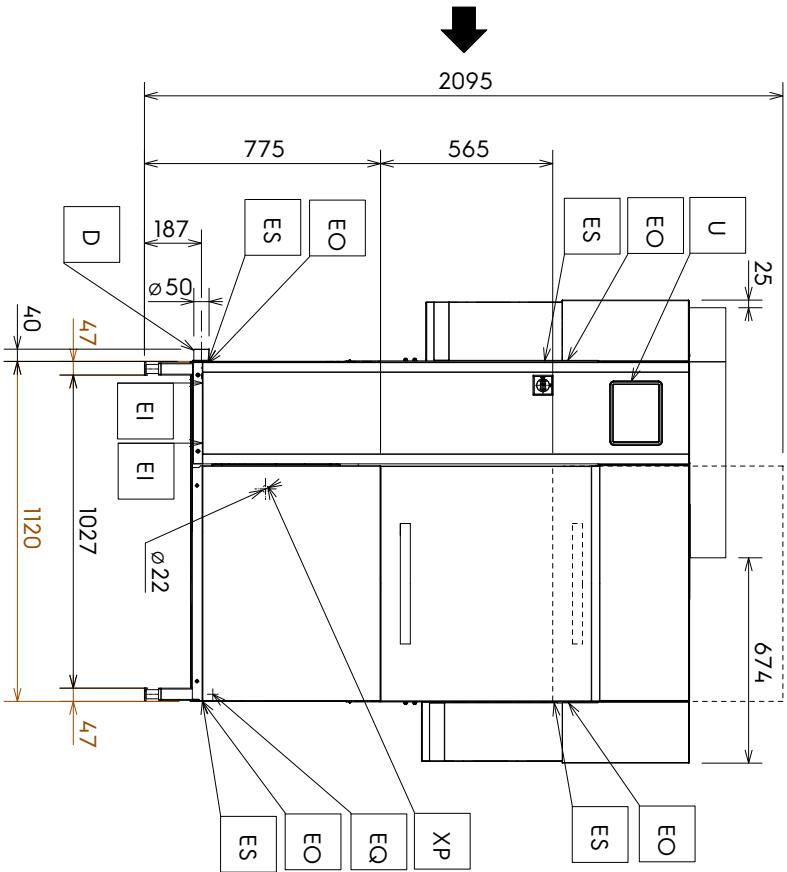
44" for "Latin America" right to left with ESD



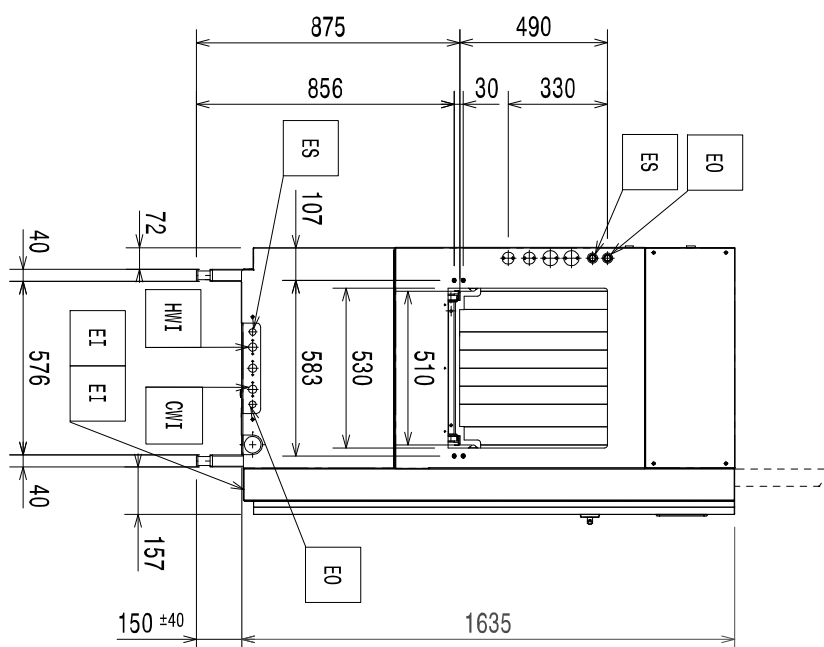
Installation diagram



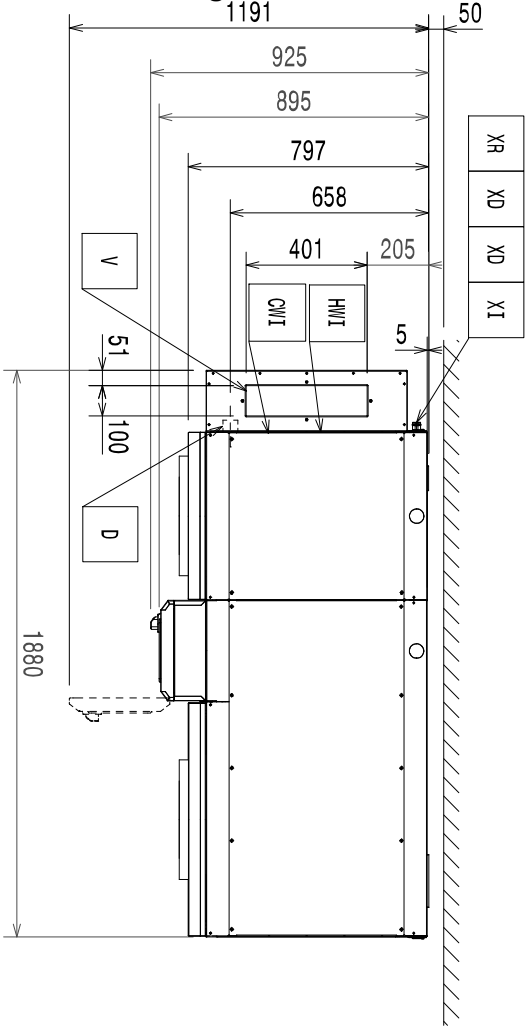
44" for "Latin America" left to right with ESD



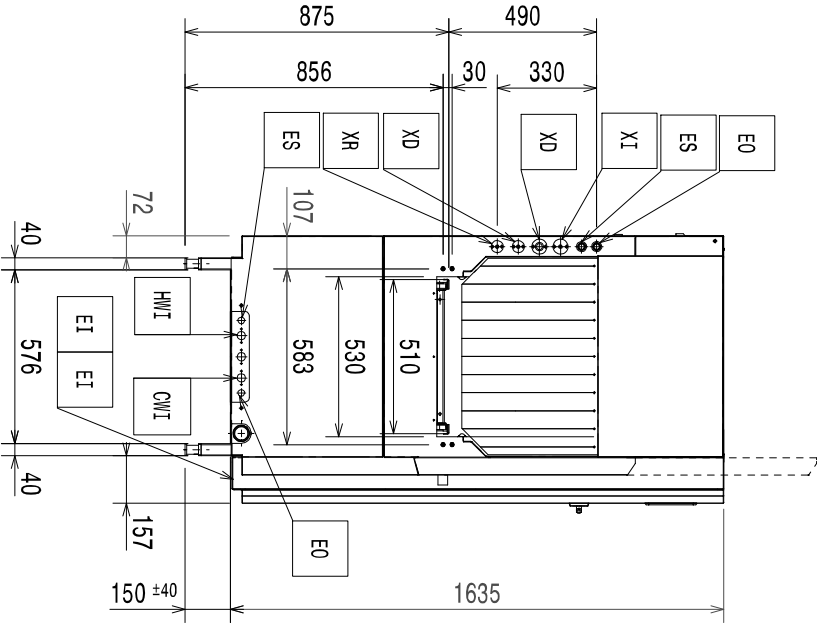
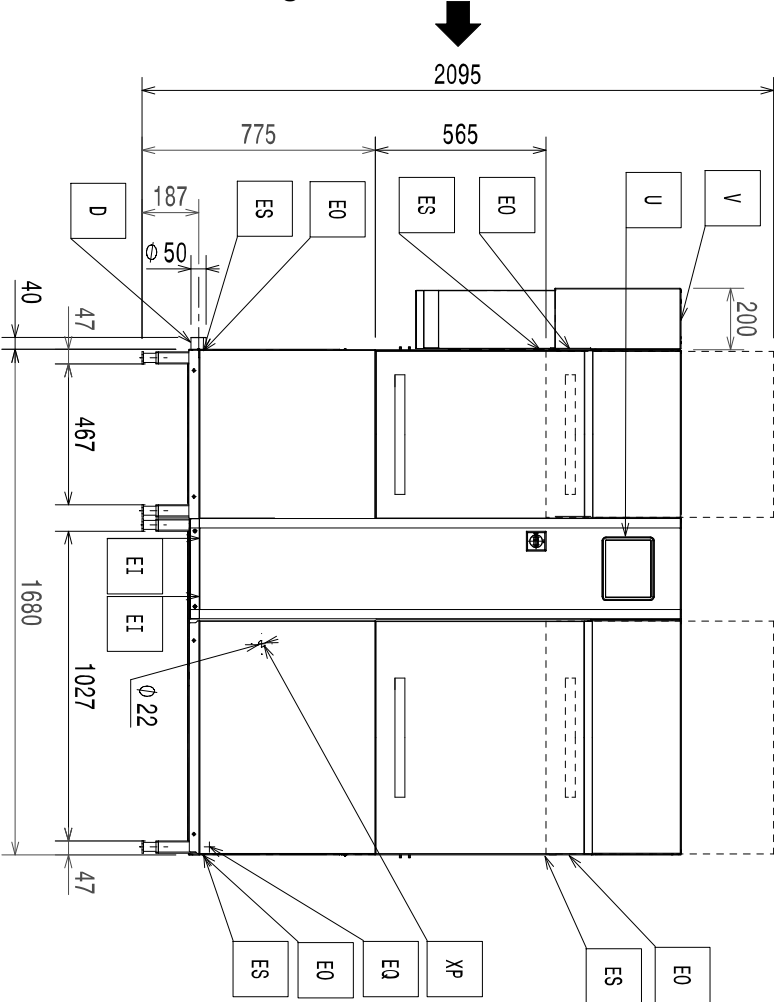
Technical drawing of the front view of a machine. The overall width is 1191 and the overall height is 1880. The machine features a base with a width of 925 and a height of 50. The main body has a width of 658 and a height of 797. The top section has a width of 401 and a height of 205. The bottom section has a width of 51 and a height of 100. The machine is labeled with 'CMI' and 'HMI' at the top, 'D' on the left, and 'V' on the right. The right side of the machine is hatched, indicating a cut section. The drawing includes various dimension lines and arrows indicating the measurement of different parts.



Installation diagram



66" left to right without ESD



Installation diagram

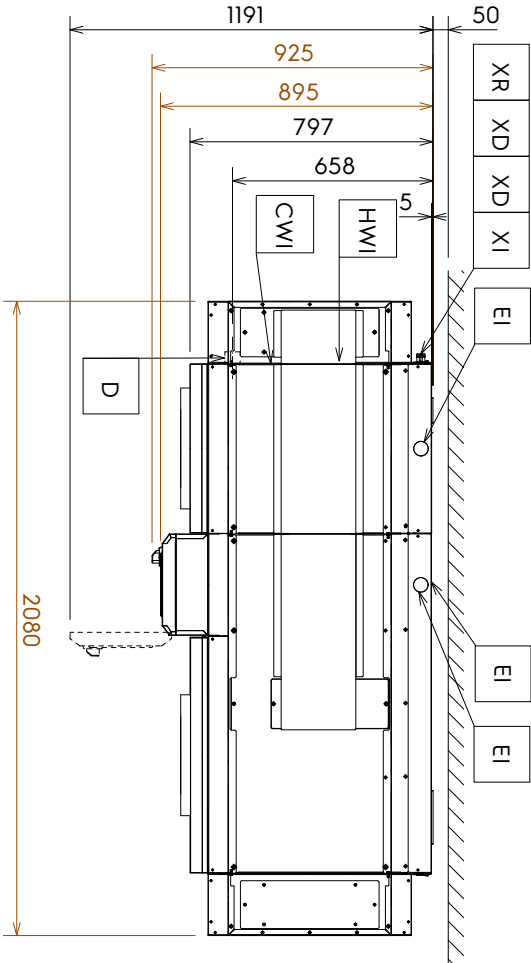
The diagram illustrates the installation of a door frame into a wall. The wall is represented by a hatched area on the right. The door frame is shown in cross-section, with various components labeled: EI (External Insulation) on the top and bottom, CWI (Cold Weather Insulation) on the left, HWI (Hot Weather Insulation) on the right, and D (Door) in the center. The dimensions are as follows:

- Overall height: 2080
- Overall width: 1191
- Distance from wall to inner frame: 5
- Distance from wall to outer frame: 658
- Distance from wall to inner frame (top): 797
- Distance from wall to inner frame (bottom): 895
- Distance from wall to inner frame (total): 925
- Distance from wall to inner frame (total): 1191
- Distance from wall to inner frame (total): 50

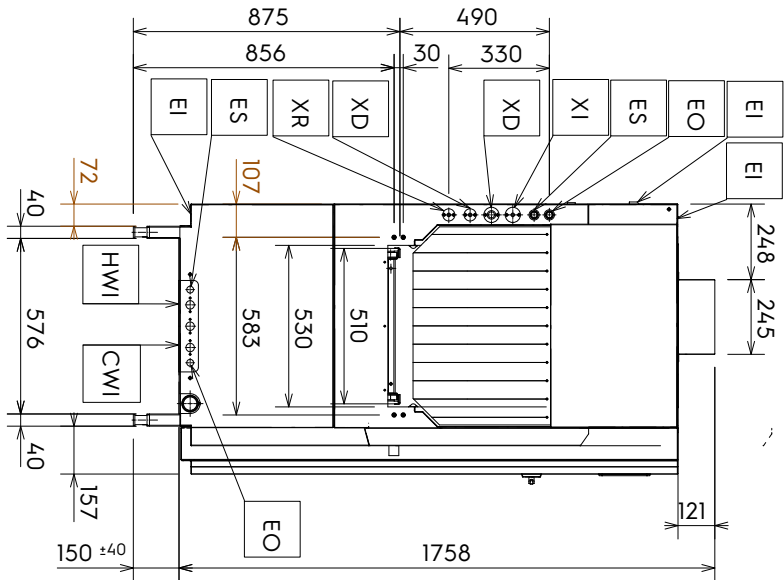
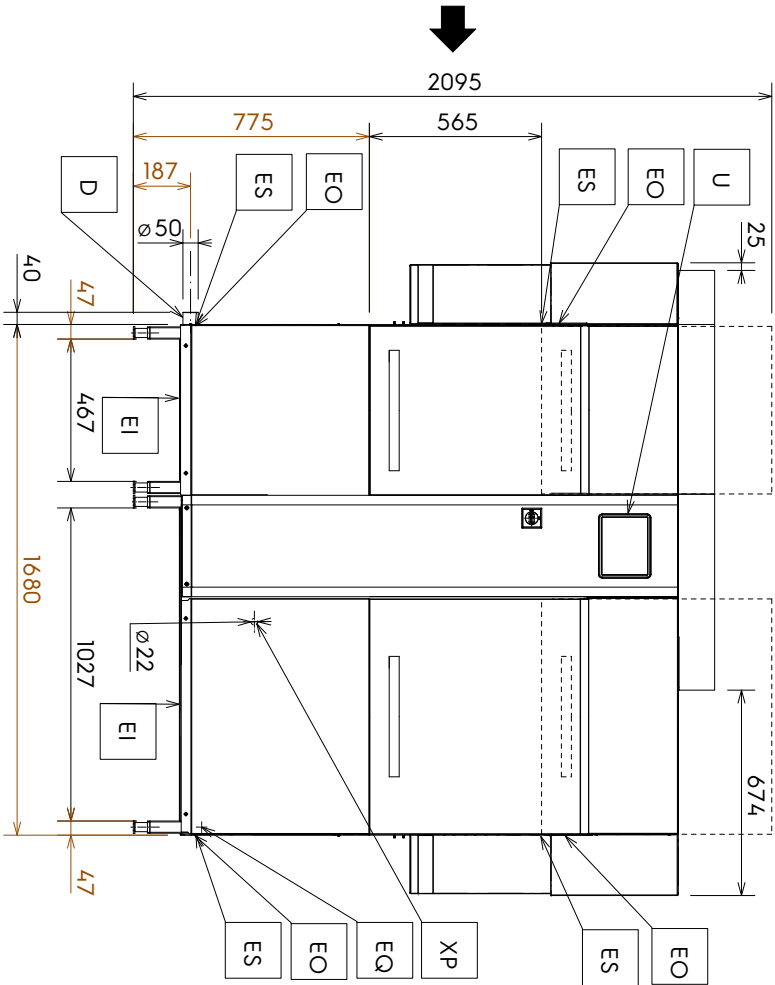
Labels on the right side of the diagram include: EI, CWI, HWI, EI, XI, XD, XD, XR.



Installation diagram



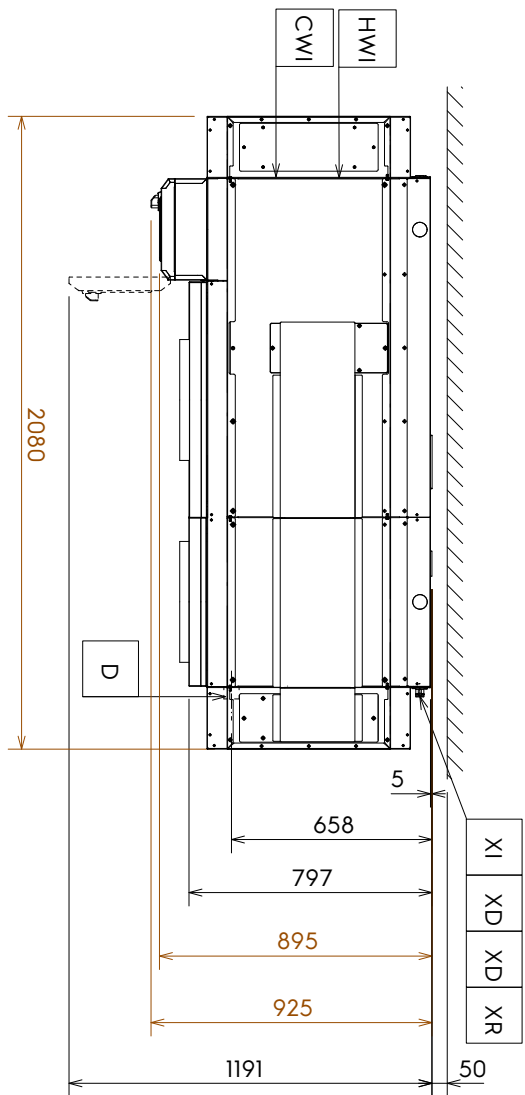
66" left to right with ESD



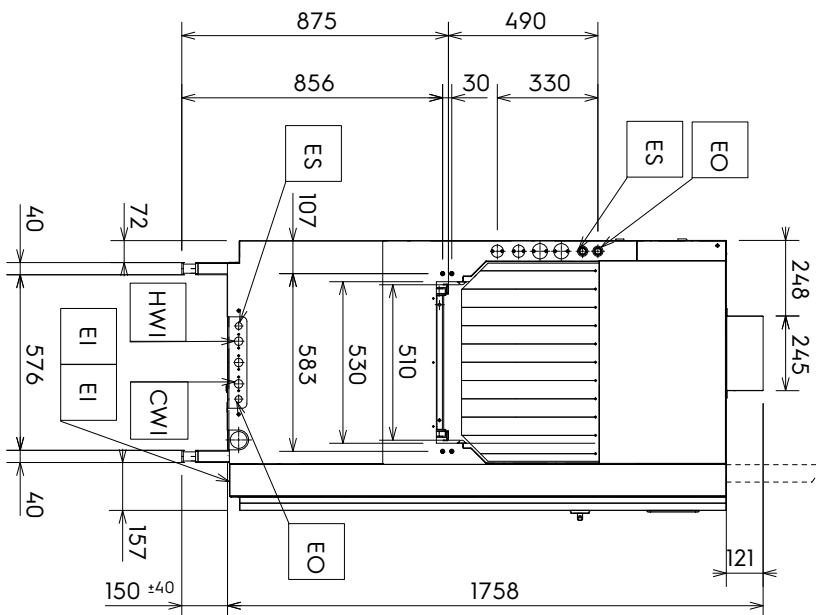
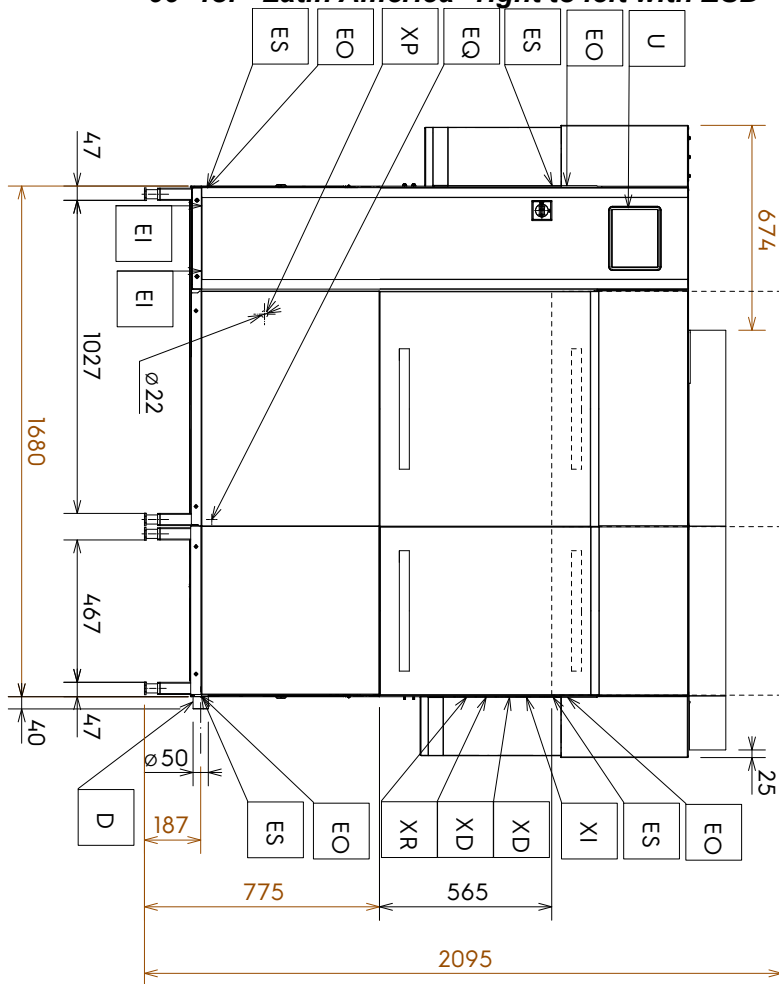
Technical drawing of a rectangular container or cabinet. The drawing shows a side view with a central door and a handle. Dimensions are provided in millimeters (mm). The overall width is 1186 mm. The overall height is 2080 mm. The door is 792 mm wide and 891 mm high. The handle is 653 mm wide. The door is labeled with 'D'. The handle is labeled with 'HWT' and 'CWT'. The door is also labeled with 'WOC' and 'WTC'. The door is labeled with 'EI' and 'XI'. The door is labeled with 'XD' and 'XR'.

Technical drawing of the front view of a machine. The overall width is 2095 and the overall height is 1680. The drawing is divided into two main sections by a vertical centerline. The left section has a width of 775 and the right section has a width of 565. Various components are labeled with codes: D, ES, E0, U, EI, XP, ES, E0, W/C, EI, XR, XD, XI, ES, E0, EI, HMI, CMI, and E0. Dimensions are provided for various parts, including a total width of 2095, a total height of 1680, and specific component dimensions like 775, 565, 187, 47, 467, 1027, 47, 875, 490, 856, 30, 330, 72, 40, 576, 40, 157, 150 ±40, 1749, 112, 537, 131, 583, 530, 510, 107, and 40. A note at the top indicates 'See name list to right with E0'. A large black arrow points downwards from the top center of the drawing.

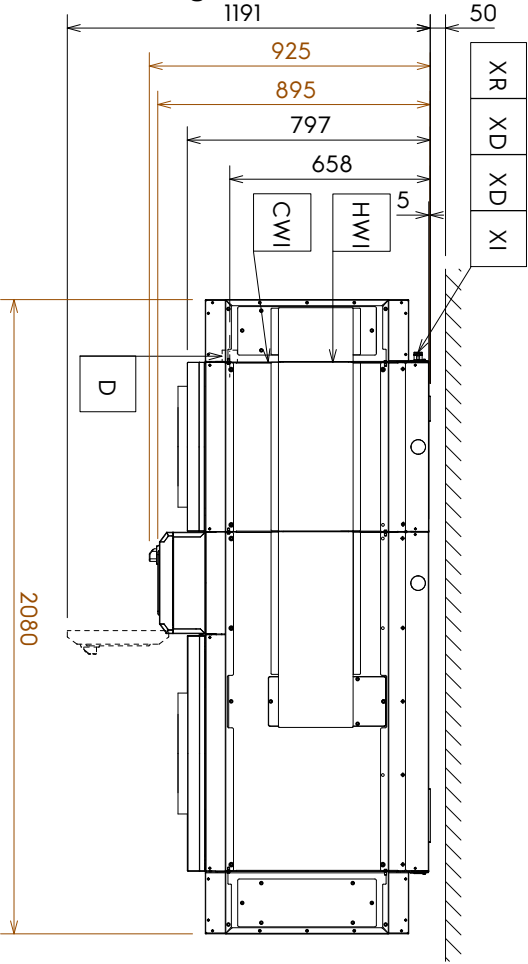
Installation diagram



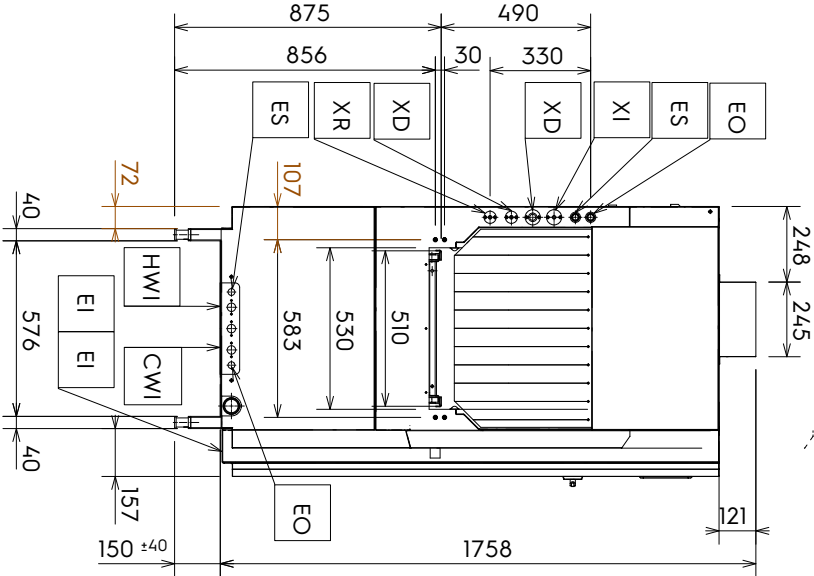
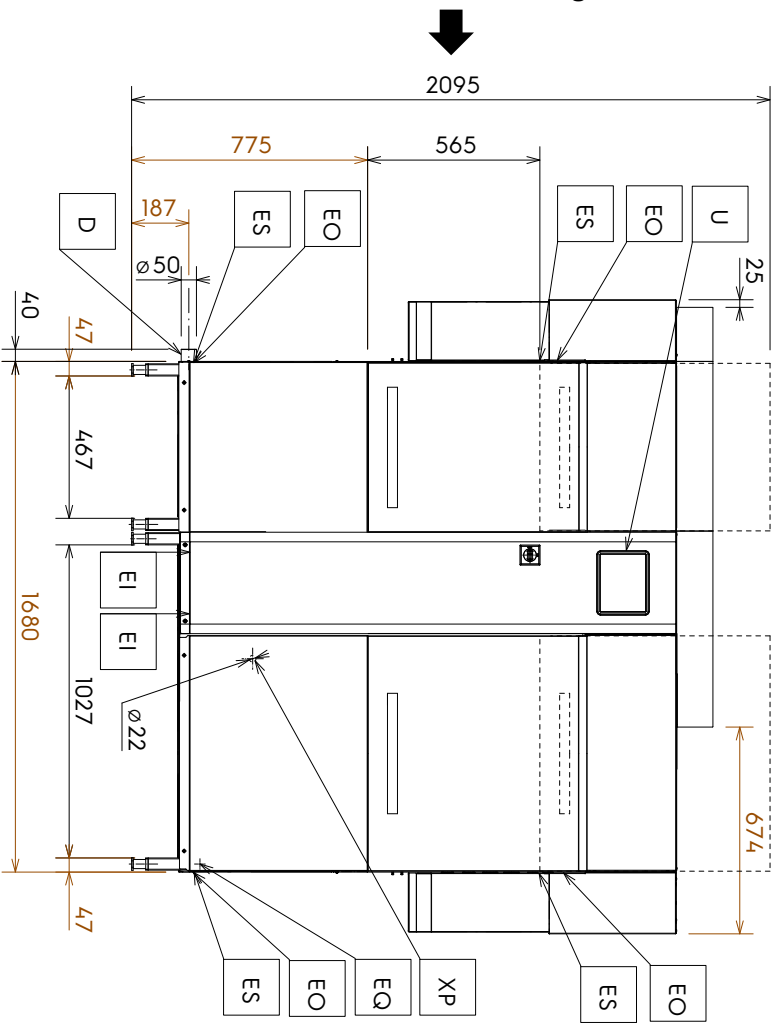
66" for "Latin America" right to left with ESD

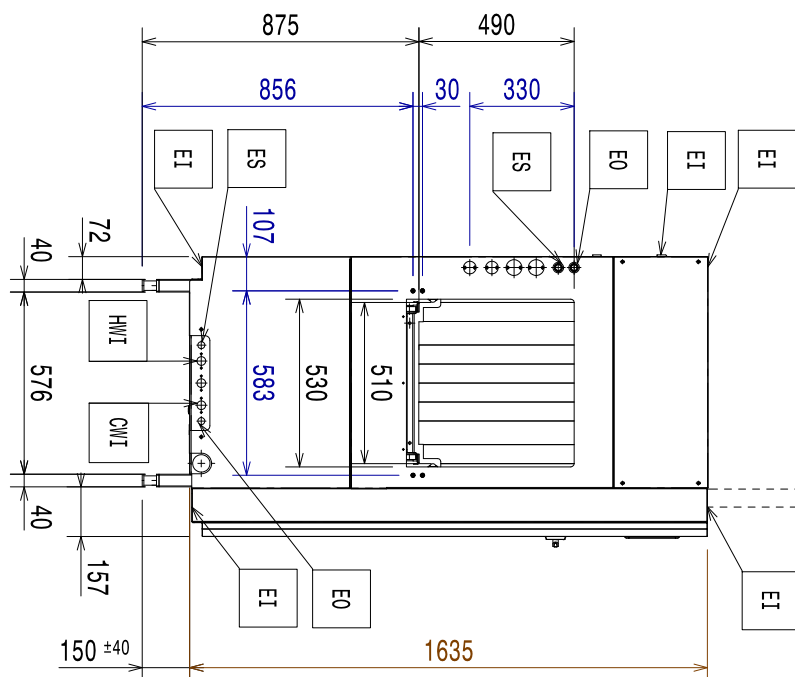


Installation diagram

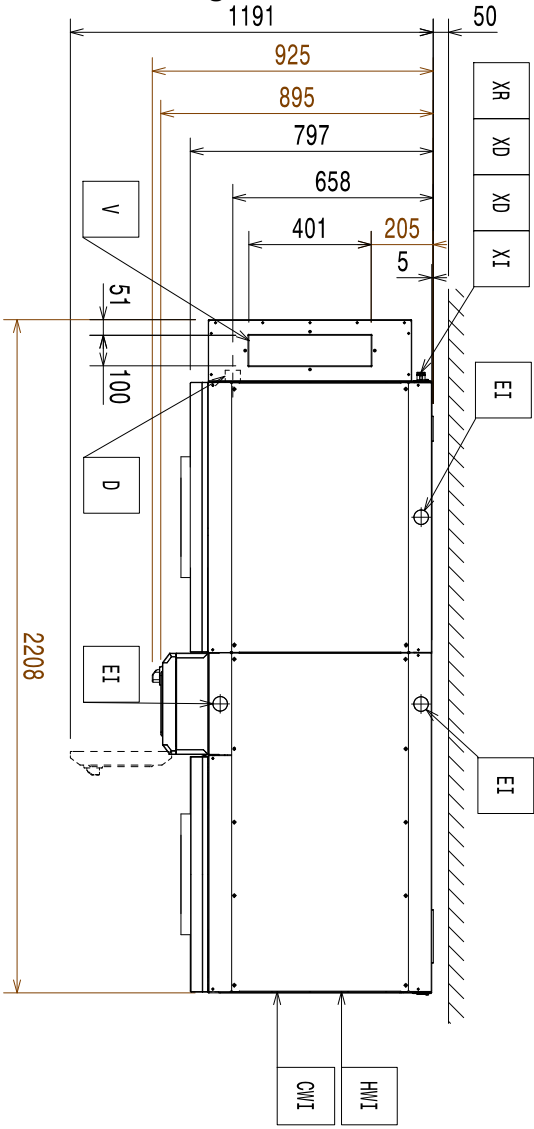


66" for "Latin America" left to right with ESD

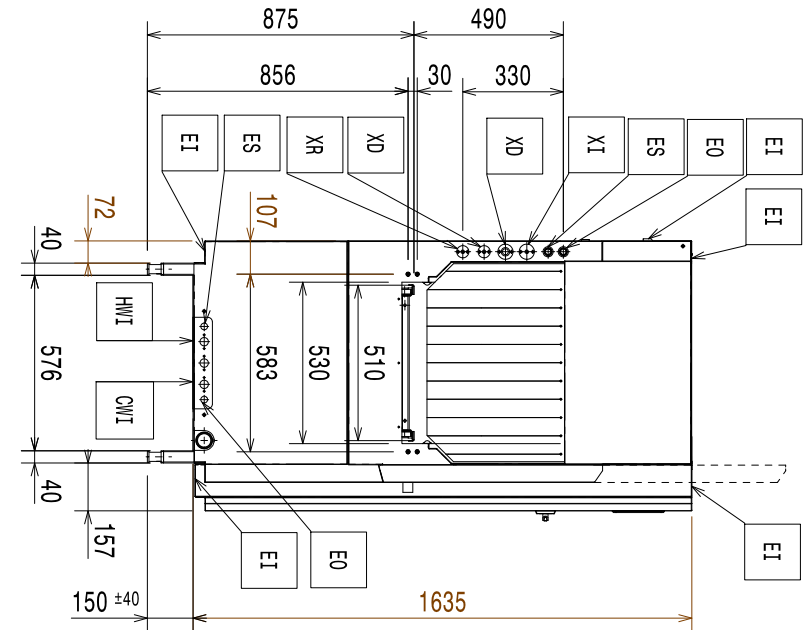
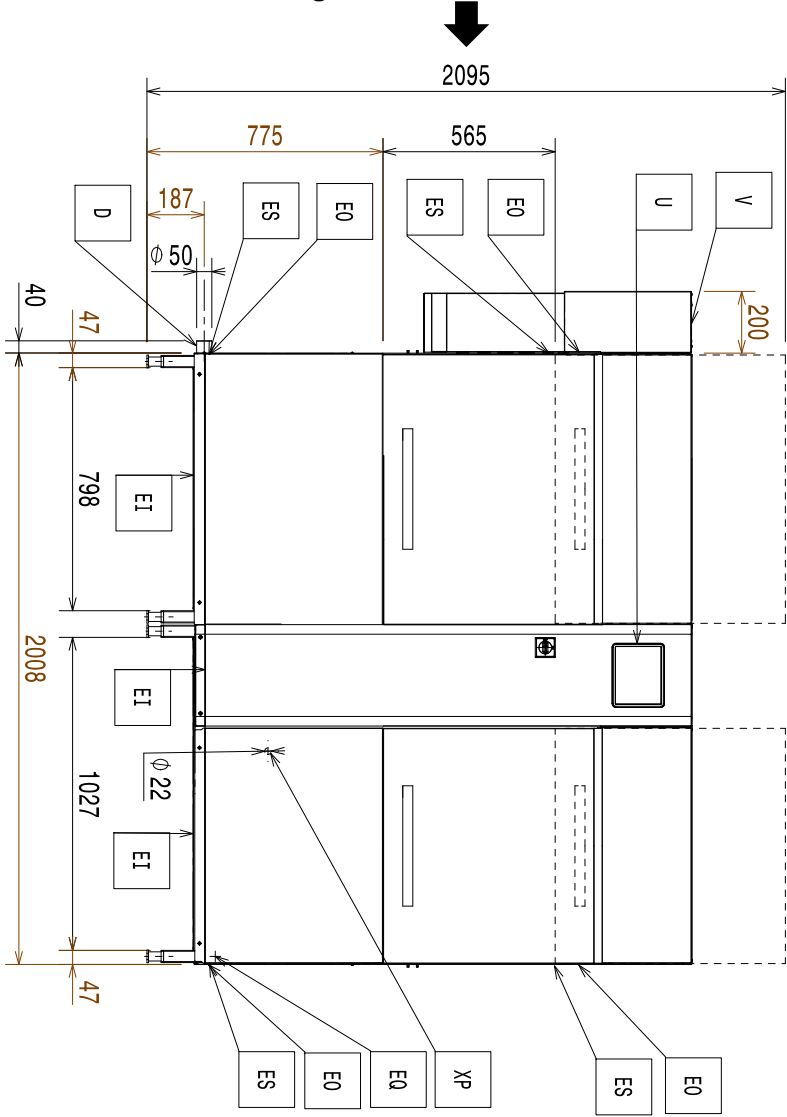


[illegible][illegible]

Installation diagram



79" left to right without ESD



[illegible]

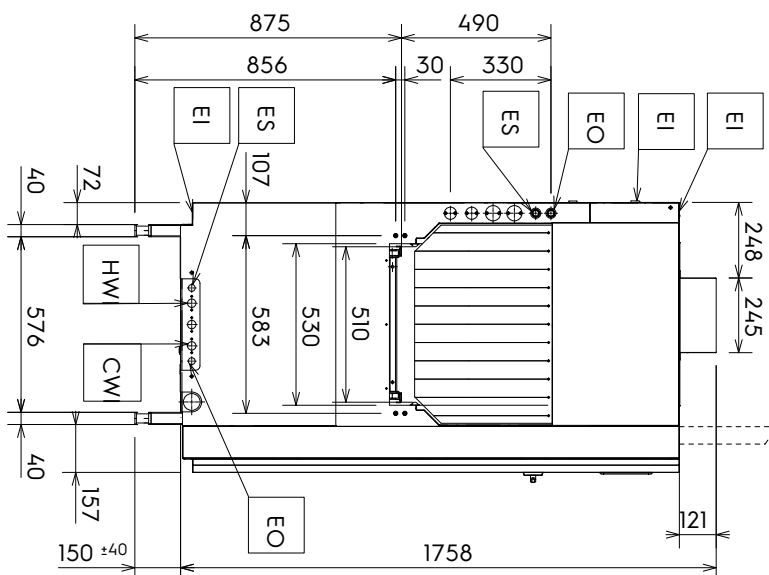
Technical drawing of a kitchen cabinet layout. The drawing shows a side view of a cabinet with a total width of 2095 mm and a total depth of 2010 mm. The cabinet is divided into several sections with various components and dimensions.

Dimensions:

- Total width: 2095 mm
- Total depth: 2010 mm
- Top section depth: 674 mm
- Bottom section depth: 25 mm
- Left section depth: 47 mm
- Right section depth: 40 mm
- Internal depth: 187 mm
- Internal depth: 50 mm
- Internal depth: 775 mm
- Internal depth: 565 mm
- Internal depth: 798 mm
- Internal depth: 1027 mm

Components and Labels:

- ES (Electrical Switch)
- EO (Electrical Outlet)
- XP (Exhaust Fan)
- EQ (Exhaust Fan)
- ES (Electrical Switch)
- EO (Electrical Outlet)
- U (Unit)
- EI (Electrical Inlet)
- Ø22 (Hole diameter)
- D (Door)
- XR (Exhaust Fan)
- XD (Exhaust Fan)
- XD (Exhaust Fan)
- XI (Exhaust Fan)
- ES (Electrical Switch)
- EO (Electrical Outlet)



Technical drawing of the front view of a cabinet. The drawing shows a long, narrow cabinet with a top panel and a base. The dimensions are as follows:

- Overall width: 1191
- Distance from left edge to the start of the top panel: 925
- Distance from left edge to the end of the top panel: 895
- Distance from left edge to the center of the top panel: 797
- Distance from left edge to the center of the base panel: 658
- Distance from left edge to the center of the base panel (bottom): 2410
- Distance from the center of the base panel to the right edge: 50

Labels and callouts:

- XR**, **XD**, **XD**, **XI**: Labels for the top panel.
- EI**: Label for the base panel.
- CWI**: Callout for the center of the top panel.
- HWI**: Callout for the height of the top panel.
- D**: Callout for the depth of the cabinet.
- 5**: Dimension for the thickness of the top panel.

[illegible]

D = Drain outlet $\varnothing=50$ mm (external)
EI = Electricity inlet
EO = Electricity outlet
ES = Electrical signal IN/OUT
EQ = Equipotential screw
XD= Pipe inlet for detergent
XR= Pipe inlet for rinse-aid
XI= Pipe inlet for delime

XP= Chemicals probe/sensor
HWI = Hot water inlet G 3/4"
CWI = Cold water inlet G 3/4"
WIC = Water inlet cooling
WOC = Water outlet cooling
U = USB
V = Vent(s)

Foreword



Read the following instructions, including the warranty terms before installing and using the appliance.

Visit our website www.electroluxprofessional.com and open the **Support** section to:



Register your product



Get hints & tips of your product, service and repair information

The installation, use and maintenance manual (hereinafter Manual) provides the user with information necessary for correct and safe use of the appliance.

The following must not be considered a long and exacting list of warnings, but rather a set of instructions suitable for improving appliance performance in every respect and, above all, preventing injury to persons and animals and damage to property due to improper operating procedures.

All persons involved in appliance transport, installation, commissioning, use and maintenance, repair and disassembly must consult and carefully read this manual before carrying out the various operations, in order to avoid wrong and improper actions that could compromise the appliance's integrity or endanger people. Make sure to periodically inform the user regarding the safety regulations. It is also important to instruct and update personnel authorised to operate on the appliance, regarding its use and maintenance.

The manual must be available to operators and carefully kept in the place where the appliance is used, so that it is always at hand for consultation in case of doubts or whenever required.

If, after reading this manual, there are still doubts regarding appliance use, do not hesitate to contact the Manufacturer or the authorised Service Centre to receive prompt and precise assistance for better operation and maximum efficiency of the appliance. During all stages of appliance use, always respect the current regulations on safety, work hygiene and environmental protection. It is the user's responsibility to make sure the appliance is started and operated only in optimum conditions of safety for people, animals and property.



IMPORTANT

- The manufacturer declines any liability for operations carried out on the appliance without respecting the instructions given in this manual.
- The manufacturer reserves the right to modify the appliances presented in this publication without notice.
- No part of this manual may be reproduced.
- This manual is available in digital format by:
 - contacting the dealer or reference customer care;
 - downloading the latest and up to date manual on the web site www.electroluxprofessional.com;
- The manual must always be kept in an easily accessed place near the appliance. Appliance operators and maintenance personnel must be able to easily find and consult it at any time.

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A SAFETY INFORMATION

A.1 General information

This appliance is intended to be used for commercial applications, for example in kitchens of restaurants, canteens, hospitals. It must be used for washing or drying (depending on the model) plates, dishes, glassware, cutlery and similar articles.

To ensure safe use of the appliance and a proper understanding of the manual it is necessary to be familiar with the terms and typographical conventions used in the documentation. The following symbols are used in the manual to indicate and identify the various types of hazards:



WARNING

Danger for the health and safety of operators.



WARNING

Danger of electrocution - dangerous voltage.



CAUTION

Risk of damage to the appliance or the product.



IMPORTANT

Important instructions or information on the product



Equipotentiality



Read the instructions before using the appliance



Clarifications and explanations

A.2 General safety

- The machine must not be used by people (including children) with limited physical, sensory or mental abilities or without experience and knowledge of it, unless instructed in its use and supervised by those responsible for their safety.
 - Do not let children play with the machine.
 - Keep all packaging and detergents away from children.
 - Cleaning and user maintenance shall not be made by children without supervision.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- For suitable personal protection equipment, refer to chapter “A.3 *Personal protection equipment*”.
- Several illustrations in the manual show the machine, or parts of it, without guards or with guards removed. This is purely for explanatory purposes. Do not install the machine without the guards or with the protection devices deactivated.
- Do not remove, tamper with or make illegible the safety, danger and instruction signs and labels on the machine.

- Do not remove or tamper with the machine's safety devices.
- Before carrying out any machine installation, always consult the installation manual, which gives the correct procedures and contains important information on safety.
- Unauthorized personnel must not enter the work area.
- Remove any flammable products or items from the work area.
- Machine positioning, installation and disassembly must be carried out by the specialised personnel in conformity with the current safety regulations, regarding the equipment used and the operating procedures.

A.3 Personal protection equipment

Summary table of the Personal Protection Equipment (PPE) to be used during the various stages of the appliance's service life.

Stage	Protective garments 	Safety footwear 	Gloves 	Glasses 	Safety helmet 
Transport	—	●	○	—	○
Handling	●	●	○	—	—
Unpacking	○	●	○	—	—
Installation	○	●	● ¹	—	—
Normal use	●	●	● ²	○	—
Adjustments	○	●	—	—	—
Routine cleaning	○	●	● ¹⁻³	○	—
Extraordinary cleaning	○	●	● ¹⁻³	○	—
Maintenance	○	●	○	—	—
Dismantling	○	●	○	○	—
Scrapping	○	●	○	○	—
Key:					
●	PPE REQUIRED				
○	PPE AVAILABLE OR TO BE USED IF NECESSARY				
—	PPE NOT REQUIRED				

1. During these operations, gloves must be cut-resistant. Failure to use the personal protection equipment by operators, specialized personnel or users can involve exposure to harm to health (depending on the model).

2. During these operations, gloves must be heatproof and suitable for contact with water and the substances used (refer to the safety data sheet of the substances used for the information regarding the required PPE). Failure to use the personal protection equipment by operators, specialised personnel or users can involve exposure to chemical risk and cause possible harm to health (depending on the model).

3. During these operations, gloves must be suitable for contact with chemical substances used (refer to the safety data sheet of the substances used for information regarding the required PPE). Failure to use the personal protection equipment by operators, specialized personnel or users can involve exposure to chemical risk and cause possible harm to health (depending on the model).

A.4 Transport, handling and storage

- Due to their size, the machines cannot be stacked on top of each other during transport, handling and storage; this eliminates any risks of loads tipping over due to stacking.
- Do not stand under suspended loads during loading or unloading operations. Unauthorized personnel must not enter the work area.
- The weight of the appliance alone is not sufficient to keep it steady.
- For machine lifting and anchoring, do not use movable or weak parts such as: casings, electrical raceways, pneumatic parts, etc.
- Do not push or pull the machine to move it, as it may tip over. Use proper tool to lift the machine.
- Machine transport, handling and storage personnel must be adequately instructed and trained regarding the use of lifting systems and personal protection equipment suitable for the type of operation carried out.

A.5 Installation and assembly

- Follow the installation instruction supplied with the machine.
- Do not install a damaged machine. Any missing or faulty parts must be replaced with original parts.
- Do not make any modifications to the parts supplied with the machine.
- Disconnect the machine from the power supply before carrying out any installation procedure. Connect the machine to the power supply only at the end of the installation.
- The machine is not suitable for installation outdoors and/or in places exposed to atmospheric agents (rain, direct sunlight, freeze, humid and dusty location, etc.).
- Do not install the machine over 2000 meters above sea level.
- Make sure that the floor where you install the machine is flat, stable, heat resistant and clean.
- If available, make sure to install the accessory to fix the machine to the floor.
- Use a ladder with suitable protection for work on machines with high accessibility.

A.6 Water connection

- The plumbing connections must be carried out by a specialised personnel.
- The appliance is to be connected to the water mains using the new supplied hose-sets. Do not use old hose sets.
- Always use a new set of joints if you remove and re-install the water inlet pipe to the appliance.
- Before connection to new pipes, pipes not used for a long time, where repair work has been carried out or new devices fitted (water meters, etc.), let the water flow until it is clean and clear.
- The dynamic water pressure (minimum and maximum) must be between:
 - 1.5 bar [150 kPa] and 6 bar [600 kPa];
 - 2 bar [200 kPa] and 6 bar [600 kPa] for models with prewash module installed.
- Make sure that there are no visible water leaks during and after the first use of the appliance.
- Install an approved dual check valve upstream according to the regulation of the installation country.

A.7 Electrical connection

- Work on the electrical systems must only be carried out by a specialised personnel.
- Make sure that the electrical information on the rating plate agrees with the power supply.

- Make sure to install the machine in accordance with the safety regulations and local laws of the country where used.
- If the power cable is damaged it must be replaced by the Customer Care Service or in any case by specialised personnel, in order to prevent any risk.
- The machine must be correctly earthed. The manufacturer is not responsible for the consequences of an inadequate earthing system.
- If present, connected the machine to the equipotential protection circuit .
- To protect the power supply of the machine against short circuits and/or overloads, install a thermal fuse or a suitable automatic thermal magnetic circuit breaker, ADS (Automatic Disconnection of Supply).
- To protect the power supply of the machine against current leakages, install a high-sensitivity manual reset RCD (Residual Current Device), suitable for overvoltage category III.
- For protection against indirect contacts (depending on the type of supply provided for and connection of earths to the equipotential protection circuit ) refer to point 6.3.3 of EN 60204-1 (IEC 60204-1) with the use of protection devices that ensure automatic cut-off of the supply in case of isolation fault in the TN or TT systems or, for IT systems, the use of isolation controllers or differential current protection devices to activate automatic power disconnection (an isolation controller must be provided for indicating a possible first earth fault of a live part, unless a protection device is supplied for switching off the power in case of a such a fault. This device must activate an acoustic and/or visual signal which must continue for the entire duration of the fault). For example: in a TT system, a residual current device with cut-in current (e.g. 30 mA) coordinated with the earthing system of the building where the machine is located must be installed ahead of the supply.
- On all rack type dishwasher, make sure to install an emergency switch at the infeed and outfeed. For all additional modules installed later, move the emergency switch at the ends of the equipment.
- For all the additional modules installed later, make sure that the power cable supply is properly sized.

A.8 Machine cleaning and maintenance

- Refer to “A.3 *Personal protection equipment*” for suitable personal protection equipment.
- Put the machine in safe conditions before starting any maintenance operation. Disconnect the machine from the power supply and carefully unplug the power supply cable, if present.
- Depending on the model and type of electric connection, during maintenance operations, the cable and plug must be kept in a visible position by the operator carrying out the work.
- Do not touch the machine with wet hands or feet or when barefoot.
- Do not remove the safety guards.
- Use a ladder with suitable protection for work on machines with high accessibility.
- Respect the requirements for the various routine and extraordinary maintenance operations. Non compliance with the instructions can create risks for personnel.
- Contact with chemical substances (e.g. detergent, rinse aid, scale remover, etc.) without taking appropriate safety precautions (e.g. personal protection equipment) can involve exposure to chemical risk and possible damage to health. Therefore always refer to the safety cards and labels on the products used.

Repair and extraordinary maintenance

- Repair and extraordinary maintenance have to be carried out by specialised authorised personnel. The manufacturer declines any liability for any failure or damage caused by

the intervention of an unauthorized technician by the Manufacturer and the original manufacturer warranty will be invalidated.

A.9 Service

- Only original spare parts can ensure the safety standards of the appliance.

A.10 Disposal of packing

- Dispose of each packaging items respecting the current regulation in the country of installation.

A.11 Machine disposal

- Work on the electrical equipment must only be carried out by a specialised personnel, with the power supply disconnected.
- Dismantling operations must be carried out by specialised personnel.
- Make the appliance unusable by removing the power cable and any compartment closing devices, to prevent the possibility of someone becoming trapped inside.
- Refer to “A.3 *Personal protection equipment*” for suitable personal protection equipment.
- When scrapping the machine, the “CE” marking, this manual and other documents concerning the appliance must be destroyed.



IMPORTANT

Save these instructions carefully for further consultation by the various operators.

B GENERAL INFORMATION

B.1 Introduction

This manual contains information relevant to various appliances. The product images in this guide are only an example.

The drawings and diagrams given in the manual are not in scale. They supplement the written information with an outline, but are not intended to be a detailed representation of the appliance supplied.

The numerical values given on the appliance installation diagrams refer to measurements in millimeters and/or inches.

B.2 Definitions

Listed below are the definitions of the main terms used in the manual. It is advisable to read them carefully before use.

Operator	machine installation, adjustment, use, maintenance, cleaning, repair and transport personnel.
Manufacturer	Electrolux Professional SpA or any other service centre authorised by Electrolux Professional SpA.
Operator for normal machine use	an operator who has been informed and trained regarding the tasks and hazards involved in normal machine use.
Customer Care service or specialised technician	an operator instructed/trained by the Manufacturer and who, based on his professional and specific training, experience and knowledge of the accident-prevention regulations, is able to appraise the operations to be carried out on the machine and recognise and prevent any risks. His professionalism covers the mechanical, electrotechnical and electronics fields.
Danger	source of possible injury or harm to health.
Hazardous situation	any situation where an operator is exposed to one or more hazards.

Risk	a combination of probabilities and risks of injury or harm to health in a hazardous situation.
Protection devices	safety measures consisting of the use of specific technical means (guards and safety devices) for protecting operators against risks.
Guard	an element of a machine used in a specific way to provide protection by means of a physical barrier.
Safety device	a device (other than a guard) that eliminates or reduces the risk; it can be used alone or in combination with a guard.
Customer	the person who purchased the machine and/or who manages and uses it (e. g. company, entrepreneur, firm).
Emergency stop device	a group of components intended for the emergency stop function; the device is activated with a single action and prevents or reduces damage to persons/machines/property/animals.
Electrocution	an accidental discharge of electric current on a human body.

B.3 Machine and manufacturer's identification data

An example of the marking or data plate on the machine is given below:

Made in EU		2017
F.Mod. _____	Comm.Model _____	
PNC _____	Ser.Nr. _____	
EL _____ V	Hz _____	kW _____
Type ref. _____		
CE		IPX5
Electrolux Professional spa - Viale Treviso, 15 - 33170 Pordenone (Italy)		

The data plate gives the product identification and technical data. The meaning of the various information given on it is listed below:

F.Mod.	factory description of product
Comm.Model	commercial description
PNC	production number code
Ser.Nr.	serial number
V	power supply voltage
Hz	power supply frequency
kW	max. power input
Type ref.	list of acronyms used to identify the type of machine, uniquely
CE	CE marking
IPX5	dust and water protection rating
Electrolux Professional SpA Viale Treviso 15 33170 Pordenone Italy	manufacturer

The data plate is located on the front panel of the equipment.

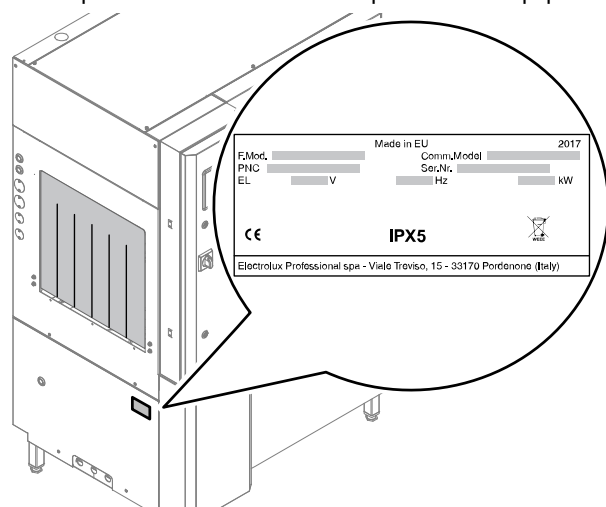


Fig. 1 Data plate position



IMPORTANT

When installing the machine, make sure the electrical connection is carried out in compliance with that specified on the data plate.



NOTE!

Refer to the data given on the machine's data plate for relations with the Manufacturer (e.g. when ordering spare parts, etc.).

B.4 Additional indications

The drawings and diagrams given in the manual are not in scale. They supplement the written information with an outline, but are not intended to be a detailed representation of the machine supplied

The numerical values given on the machine installation diagrams refer to measurements in millimeters and/or inches.

Conventionally, the machine are depicted with the rack feed side on the right ("R"); machine with left rack feed ("L") are depicted only if necessary, in which case the side will be expressly specified.

Due to its size, the machine is sometimes shown schematically divided into its functional modules in order to provide a complete view.

B.4.1 How to interpret the factory description

The factory description on the data plate has the following meaning:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
E	DR	150	E	C		5		
Z	DR	20P	E	L		5		V

	Description	Possible variables
(1)	Brand	E=Electrolux Professional, Z= Zanussi, V=Veetsan*
(2)	Machine Type	DR = dual rinse
(3)	Racks/hour	150 = 150 r/h 200 = 200 r/h 20P = 200 r/h with prewash 22" 250 = 250 r/h 25P = 250 r/h with prewash 35"
(4)	Supply	E = electric S = steam
(5)	Direction	R = from right to left L = from left to right C = custom direction on site
(6)	Hydraulic circuit	Blank = pressure A = atmospheric
(7)	Frequency/ Voltage	5 = 50 Hz — 380-415V 3N~ 6 = 60 Hz — 380-415V 3N~ 4 = 60 Hz — 220-240V 3~ 8 = 60 Hz — 208V 3~ Marine version: 5M = 50 Hz — 400V 3~ 6M = 60 Hz — 440V 3~ 5M = 60 Hz — 480V 3~
(8)	Other functions	W = WRAS - Watermark certificate
(9)	Functional level	Blank = no ventless ESD (Energy Saving Device) V = ventless ESD (Energy Saving Device)

B.5 Type reference

Made in EU		2017				
F.Mod. _____	Comm.Model _____					
PNC _____	Ser.Nr. _____					
EL _____ V	Hz _____	kW _____				
Type ref. _____						
CE		IPX5				
A	B	C	D	E	F	G
↑	↑	↑	↑	↑	↑	↑
DR	*	*	*	*	*	*

Legend

A	Type of appliance • Dual Rinse dishwasher
B	Productivity • 0 = 150 racks/hour • 1 = 200 racks/hour • 2 = 250 racks/hour
C	Rinsing type • 0 = without rinse pump • 1 = with rinse pump
D	Energy Saving Device [ESD] • 0 = without ESD • 1 = with ESD
E	Heating elements power • 0 = 22 KW • 1 = 24 KW • 2 = 26 KW • 3 = 29 KW • 4 = 40 KW
F	Power supply • 0 = Electric
G	Drying module • 0 = none • 1 = Medium • 2 = Large • 3 = Corner 90°



CAUTION

For all the additional modules installed later, make sure that the power cable supply is properly sized.

B.6 Responsibility

The Manufacturer declines any liability for damage and malfunctioning caused by:

- non-compliance with the instructions contained in this manual;
- repairs not carried out in a workmanlike fashion, and replacements with parts different from those specified in the spare parts catalogue (the fitting and use of non-original

spare parts and accessories can negatively affect appliance operation and invalidates the original manufacturer warranty);

- operations carried out by non-specialised personnel;
- unauthorized modifications or operations;
- missing, lack or inadequate maintenance;
- improper appliance use;
- unforeseeable extraordinary events;
- use of the appliance by uninformed and / or untrained personnel;
- non-application of the current provisions in the country of use, concerning safety, hygiene and health in the workplace.

The Manufacturer declines any liability for:

- damage caused by arbitrary modifications and conversions carried out by the user or the Customer;
- inaccuracies contained in the manual, if due to printing or translation errors.

The employer, workplace manager or service technician are responsible for identifying and choosing adequate and suitable personal protection equipment to be worn by operators, in compliance with regulations in force in the country of use.

Any supplements to the installation, use and maintenance manual the Customer receives from the Manufacturer will form an integral part of the manual and therefore must be kept together with it.

B.7 Copyright

This manual is intended solely for consultation by the operator and can only be given to third parties with the permission of Electrolux Professional SpA.

B.8 Keeping the manual

The manual must be carefully kept for the entire life of the appliance, until scrapping. The manual must stay with the appliance in case of transfer, sale, hire, granting of use or leasing.

B.9 Recipients of the manual

This manual is intended for:

- the carrier and handling personnel;
- installation and commissioning personnel;
- specialised personnel - Customer Care service (see service manual).

C TECHNICAL DATA

C.1 Main technical characteristics

Common

Power supply voltage	V	380-415V 3N~
Frequency	Hz	50 Hz 60 Hz
Power cable	Type	H07RN-F
Switch disconnector	A	125A 3P+N for 380-415V 3N~
Supply water pressure	bar [kPa]	1.5 bar [150 kPa]...6 bar [600 kPa] 2 bar [200 kPa]...6 bar [600 kPa] ¹
Hot water supply temp.	°C	50 60 ²
Cold water supply temp.	°C	15 ³
Concentration of chlorides in water	ppm	<20
Supply water hardness	°f/ °d/ °e	5 - 8 2.8 - 4.5 3.5 - 5.6
Electric conductivity of water	µS/cm	<400

Common (cont'd.)

Protection rating	IPX5
Nr. wash speeds	3

- For models with prewash module installed.
- Hot water temperature recommended for high power models.
- Cold water temperature recommended for models with ESD.

Machine

Model		150 racks/hour	200 racks/hour	250 racks/hour
Capacity wash at speed 3	racks/h	150	200	250
Water consumption	l/h	180	180	230
	l/basket	1.2	0.9	0.95
Rinse pressure Pressure reducer calibration	bar [kPa]	1.2 [120]	1.2 [120]	1.0 [100]
Max. power absorbed	kW	Without ESD	22	-
		With ESD	26	33
		HP ¹	-	42
Legal noise level Leq	dB(A)	NO ESD	LpA:58dB - KpA:1.5dB ²	LpA:58dB - KpA:1.5dB ²
		ESD	LpA:62dB - KpA:1.5dB ²	LpA:62dB - KpA:1.5dB ²

- High power models.
- The noise emission values have been obtained according to EN ISO 11204.

Prewash

Model		Prewash medium 22"	Prewash large 35"
Tank capacity	l	35	70
Temperature (min - max)	°C	10 - 40	10 - 40
Pump power	kW	0.37	1.19
Tank heating element ¹	kW	7	14
Max. current absorbed	A	10.3	22

- Only in version with sanitization cycle.

Wash

Tank capacity	l	70
Temperature	°C	55 - 65 [75 - 80] ¹
Pump power	kW	50 Hz
		60 Hz
Tank heating element	kW	10 [20] ¹

- High power models.

Rinse

Model		150 racks/hour	200 racks/hour	250 racks/hour
Temperature	°C	85 [87 - 92] ¹	85 [87 - 92] ¹	85 [87 - 92] ¹
Boiler capacity	l	14	14	14
Pump power	kW	0.5	0.5	0.5
Boiler heating elements	kW	Without ESD	10	10
		With ESD	14	19
		HP ¹	20	19-20 ²

- High power models.
- Depending on the models

ESD

Fan motor power	kW	0.35
Current absorbed by fan	A	1.5

C.2 Characteristics of power supply

The AC power supply to the machine must meet the following conditions:

- max. voltage variation $\pm 6\%$
- max. frequency variation $\pm 1\%$ continuous $\pm 2\%$ for a short period.

Harmonic distortion, unbalanced three-phase supply voltage, voltage pulses, interruption, dips and the other electric characteristics must respect the provisions of point 4.3.2 of Standard EN 60204-1 (IEC 60204-1).

D TRANSPORT, HANDLING AND STORAGE



WARNING

Refer to “*Safety Information*”.

D.1 Introduction

Transport (i.e. transfer of the appliance from one place to another) and handling (i.e. transfer inside workplaces) must occur with the use of special and adequate means.



CAUTION

The appliance must only be transported, handled and stored by specialised personnel, who must have:

- specific technical training and experience in the use of lifting systems;
- knowledge of the safety regulations and applicable laws in the relevant sectors;
- knowledge of the general safety rules;
- personal protection equipment suitable for the type of operation carried out;
- the ability to recognize and avoid any possible hazard.



IMPORTANT

Immediately check for any damage caused during transport.
Inspect the packaging before and after unloading.

D.2 Transport: Instructions for the carrier



IMPORTANT

The transported load can shift:

- when braking;
- when accelerating;
- in corners;
- on rough roads.

D.3 Handling

Arrange a suitable area with flat floor for appliance unloading and storage operations.

D.3.1 Procedures for handling operations

Before lifting:

- send all operators to a safe position and prevent persons from entering the handling area;
- make sure the load is stable;
- make sure no material can fall during lifting. Manoeuvre vertically in order to avoid impacts;

- handle the appliance, keeping it at minimum height from the ground.

For correct and safe lifting operations:

- use the type of equipment most suitable for characteristics and capacity (e.g. electric pallet truck or lift truck);
- cover sharp edges;
- check the forks and lifting procedures according to the instructions given on the packing.

D.3.2 Shifting

The operator must:

- have a general view of the path to be followed;
- stop the manoeuvre in case of hazardous situations.

D.3.3 Placing the load

- Before placing the load, make sure the way is free and that the floor is flat and can take the load.
- Remove the appliance from the wooden pallet, move it to one side, then slide it onto the floor.

D.4 Storage

The appliance and/or its parts must be stored and protected from damp, in a non-aggressive place, free of vibrations and with room temperatures between -10°C [14°F] and 50°C [122°F].

The place where the appliance is stored must:

- can take the appliance load,
- have a flat support surface to avoid deforming the appliance or damage to the support feet.

D.5 Customer packaging checks

- The forwarder is responsible for the goods during transport and delivery.
- Make a complaint to the forwarder in case of visible or hidden damage.
- Specify any damage or shortages on the dispatch note.
- The driver must sign the dispatch note: the forwarder can reject the claim if the dispatch note is not signed (the forwarder can provide the necessary form).
- For hidden damage or shortages becoming apparent only after unpacking, request the forwarder for inspection of the goods within and no later than 15 days after delivery.

After packaging checks

1. Remove the packaging.
Take care when unpacking and handling of the appliance to not cause any shocks on itself.
2. Keep all the documentation contained in the packaging.

E INSTALLATION AND ASSEMBLY



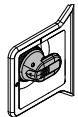
WARNING

Refer to “*Safety Information*”.

E.1 Introduction



WARNING



Make sure that the switch disconnecter of the machine is locked in the Off position - “O”.

E.2 Customer responsibilities

The Customer must provide for the following:

- installation of an adequate electrical power supply ahead of the appliance, according to the equipment's technical specifications (C *TECHNICAL DATA* and C.2 *Characteristics of power supply*);
- the equipotential connection ▽ of the workplace electrical system to the metal structure of the machine by means of a copper cable of adequate section (see position “EQ” in *Installation diagram*);
- adducting for the electrical connection between the workplace electric panel and the equipment;
- the water supply and drain connections and other connections as indicated in C *TECHNICAL DATA* and in the paragraph E.8 *Plumbing connections*;

E.3 Hood installation

Make sure to install the hood before to start the installation of the appliance.

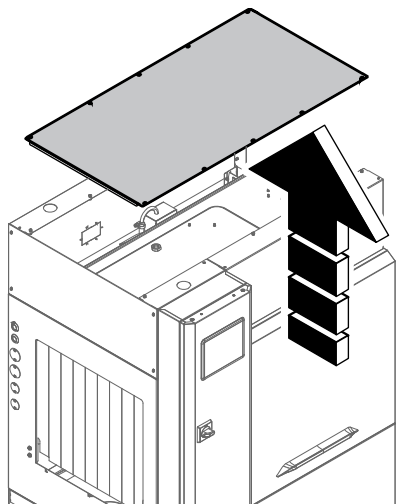


IMPORTANT

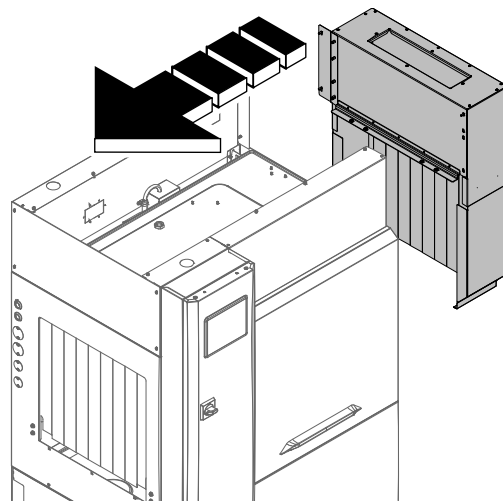
Models with the energy saving device [ESD] have 2 hoods.

E.3.1 Models without ESD

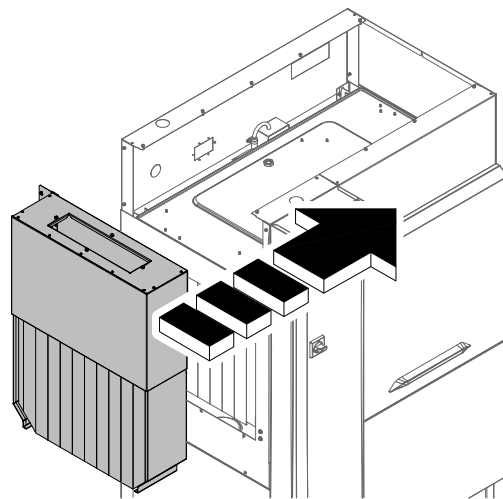
Remove the top panel and start to install the hood.



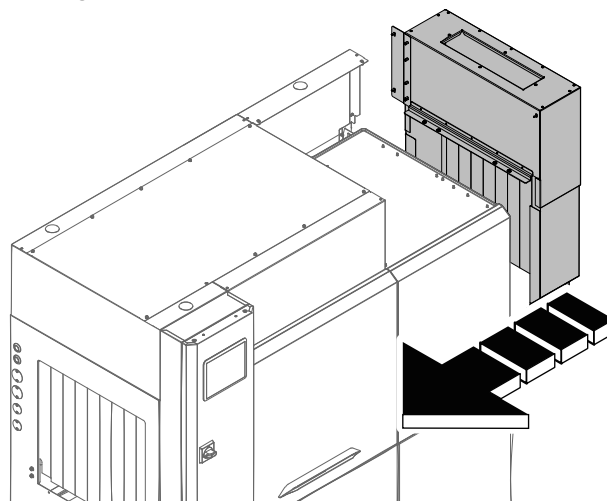
44" right to left model



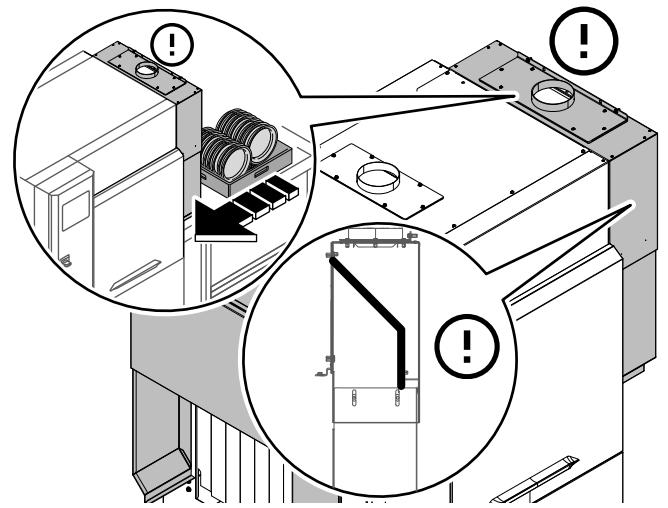
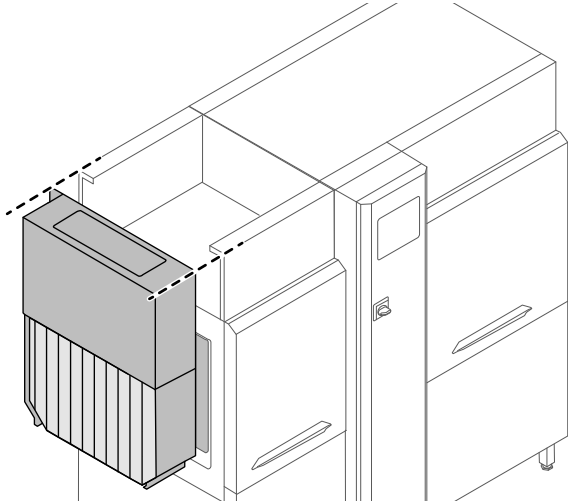
44" left to right model



66"/79" right to left model



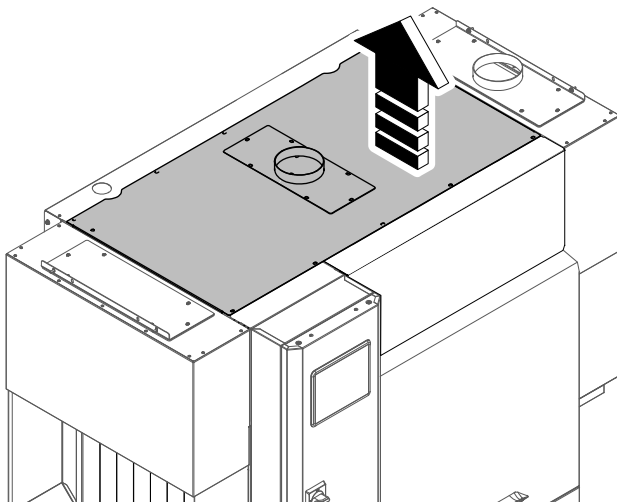
66"/79" left to right model



44" left to right model

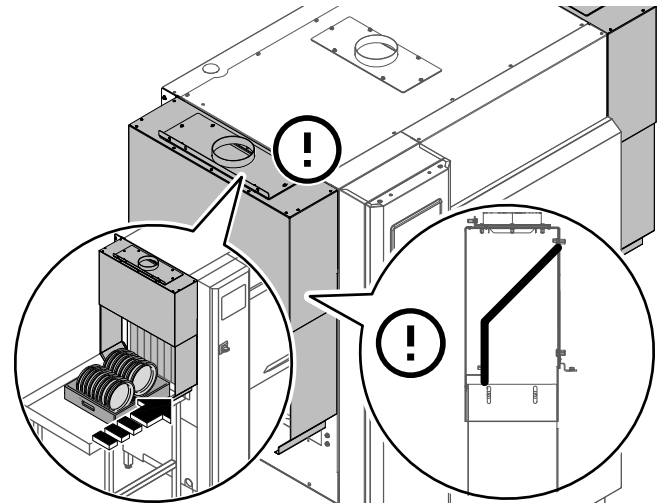
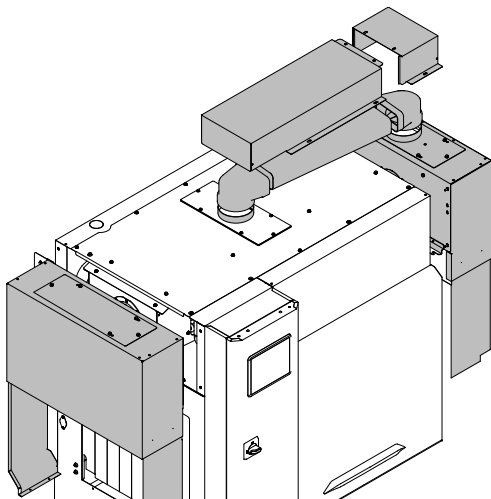
E.3.2 Models with ESD

Remove the top panel and start to install the hood.

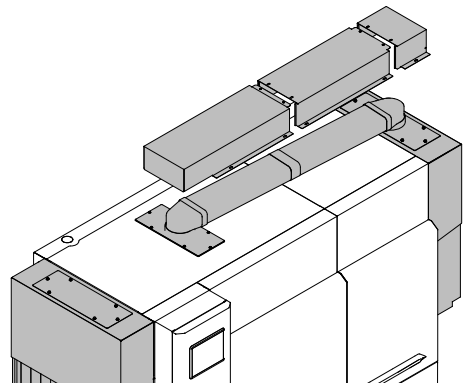


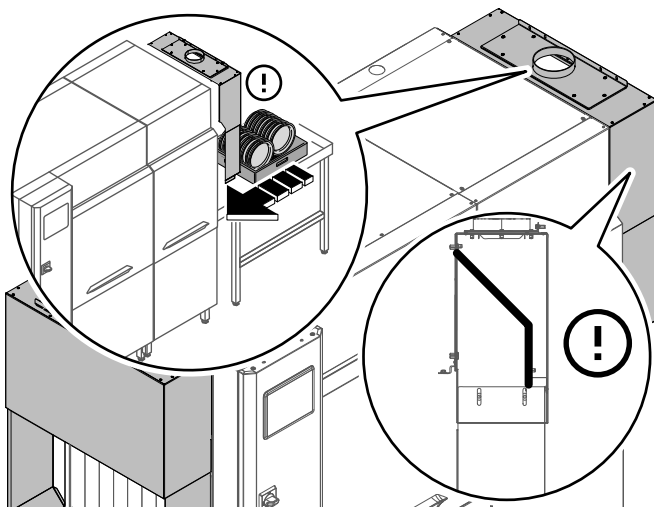
CAUTION
Refer to below drawings to install left and right hood on the proper side.

44" right to left model

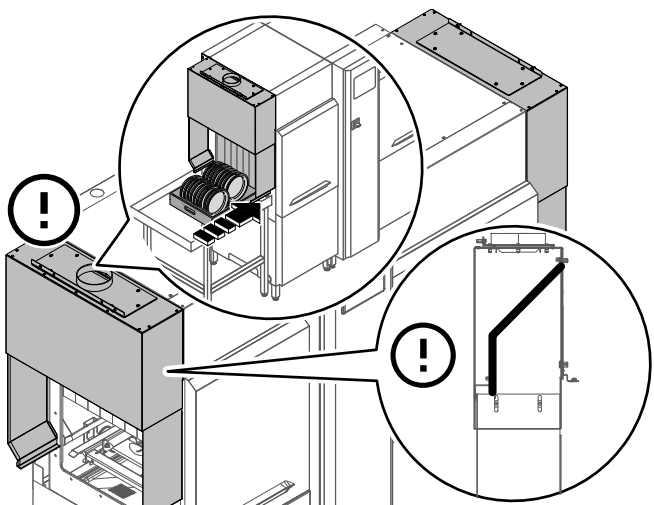
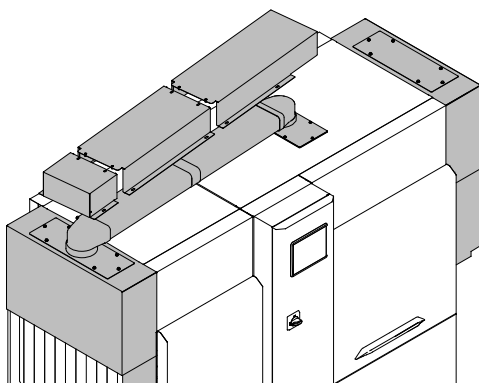


66"/79" right to left model





66"/79" left to right model



E.4 Machine space limits

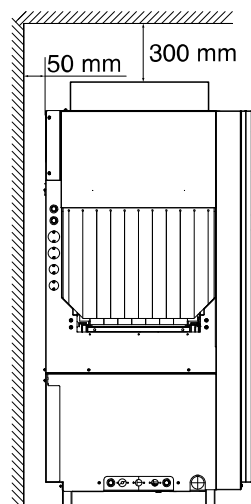
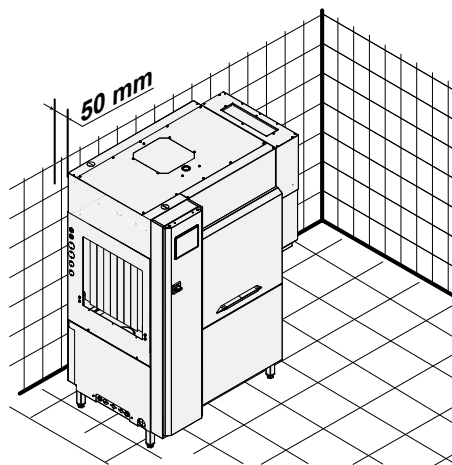
- A suitable space must be left around the appliance (for operations, maintenance, for a correct air exchange, etc.).
- This space must be increased in case of use and/or transfer of other equipment and/or means or if exit routes are necessary inside the workplace.



CAUTION

Install the appliance at a distance of not less than 50 mm from the wall so as not to affect correct ventilation of internal components.

For the appliance with the hot steam recovery device "ESD", make sure that the distance from the ceiling is not less than 300 mm.



E.4.1 Install the ceiling steam deflector

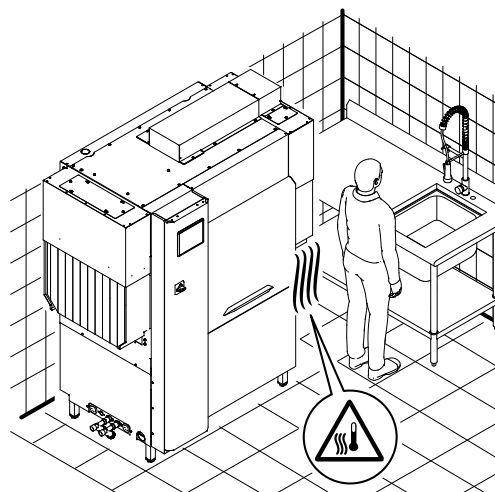


NOTE!

Only for models with "ESD".

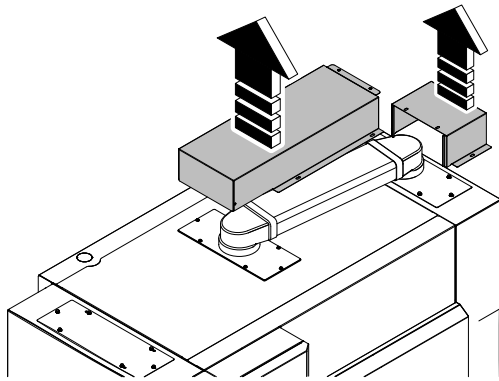
For these models the accessory is supplied with the appliance.

If the appliance is close to the operator workstation and a high flow of hot steam exits from the feeding opening of dishes rack, install the supplied accessory. The accessory directs the heat toward the ceiling.

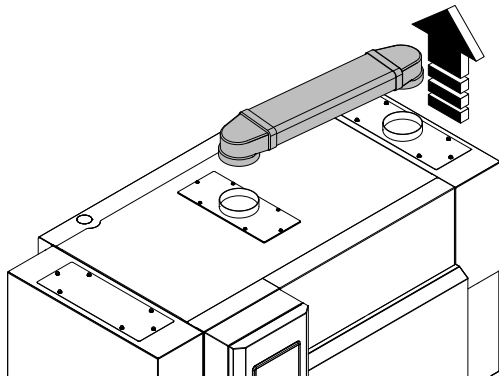


Fitting instructions

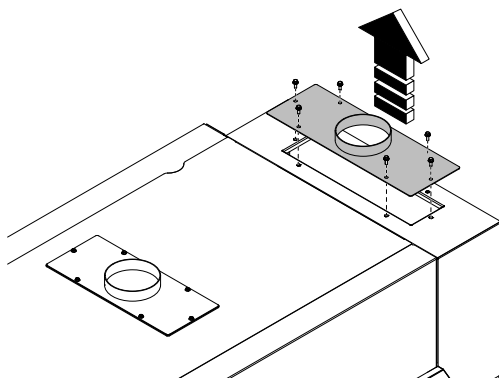
1. Remove the cover of steam air duct.



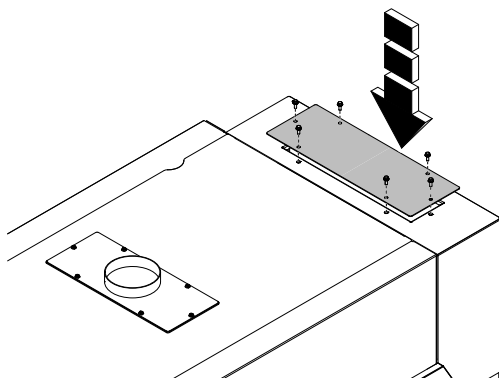
2. Remove the steam air duct.



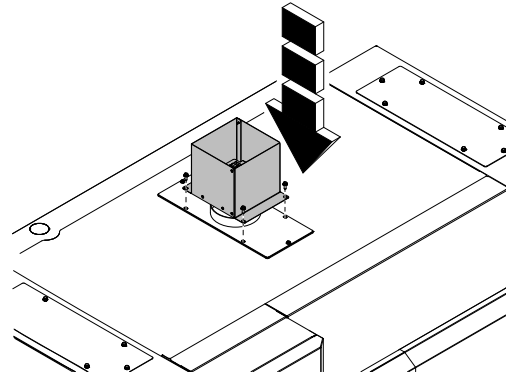
3. Remove the steam flange of the hood.



4. Install, in the same position, the hood cover.



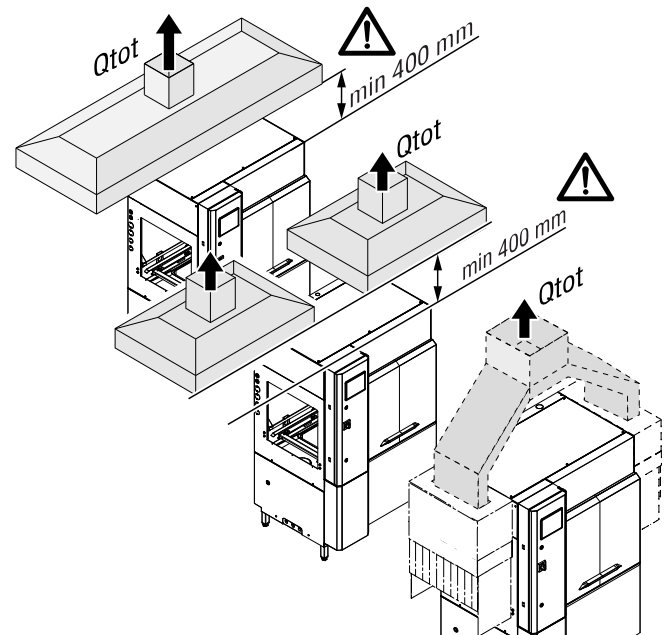
5. Install the steam deflector.



E.5 Extraction hood

Make sure to position the possible extraction hood at a distance of not less than 400 mm from the machine so as not to compromise machine operation.

The extractor hood is installed to remove the steam emitted by the machine. The hood air delivery must be calculated taking into account the machine model, the type of installation and the work environment where installed.



Model		Qtot (VDI2052)
...DR150....	without ESD and without dryer	2876 m ³ /h
...DR150....	with ESD and without dryer	1468 m ³ /h
...DR200.... ...DR20P....	without ESD and without dryer	3195 m ³ /h
...DR200.... ...DR20P....	with ESD and without dryer	1665 m ³ /h
...DR250.... ...DR25P....	without ESD and without dryer	3410 m ³ /h
...DR250.... ...DR25P....	with ESD and without dryer	1795 m ³ /h

E.6 Positioning



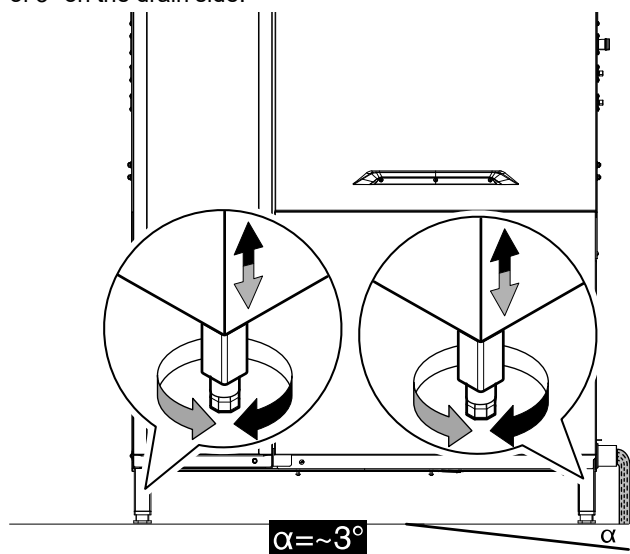
NOTE!

Make sure that the room temperature where you install the machine must be at least 18°C [64.5°F].

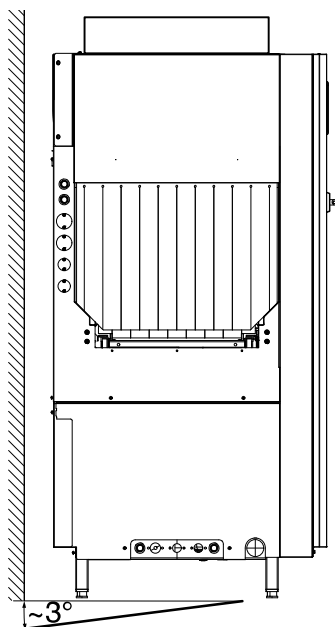
The machine must be taken to the place of installation and the packing base removed only when being installed.

Arranging the machine:

- Position the machine in the required place.
- Adjust the equipment by turning the special adjustable feet. To facilitate the perfect drainage of the water during the drain cycle, adjust the machine with a minimum inclination of 3° on the drain side.



- Adjust the machine crosswise with a minimum inclination of 3° in order to facilitate the drainage of the dirty water from the tanks.



- Carefully remove the protective film from the outer panels without tearing it, to avoid leaving traces of glue.

E.7 Disposal of packing

The packing must be disposed of in compliance with the current regulations in the country where the appliance is used. All the packing materials are environmentally friendly.

They can be safely kept, recycled, or burned in an appropriate waste incineration plant. Recyclable plastic parts are marked as follows:

	Polyethylene
	• Outer wrapping • Instructions bag
	Polypropylene
	• Straps
	Polystyrene foam
	• Corner protectors

The parts in wood and cardboard can be disposed of, respecting the current regulations in the country where the appliance is used.

E.8 Plumbing connections



IMPORTANT

Watermark labelled appliances must be installed in accordance with Plumbing Code of Australia (PCA).

Install the machine water inlets and drain pipes according to the plumbing circuit and installation diagrams.

A booster pump must be installed ahead of the machine, if:

- the dynamic water pressure is less than 1.5 bar [150 kPa];

If the pressure is more than 6 bar [600 kPa], a pressure reducing valve must be installed on the inlet pipe. The supply water temperature is related to the machine setup.

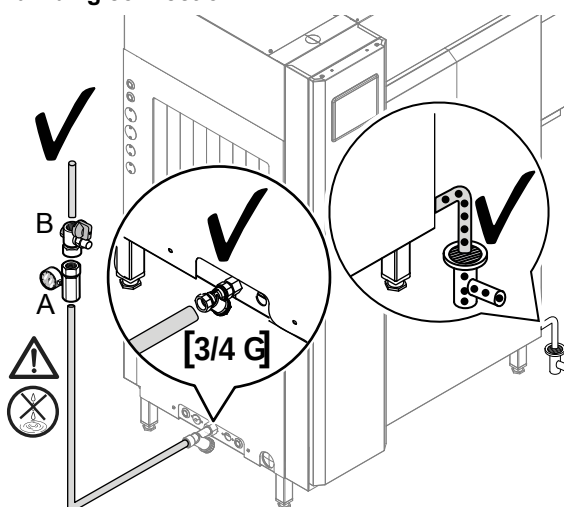
Water connection ISO 228/1 DN 20 (G3/4")

- Cold water inlet temperature only for models with Energy Saving Device installed:
 - 15°C.
- Hot water inlet temperature:
 - 60°C.
 - Recommended hot water temperature is: 50°C.
- Dynamic water inlet pressure:
 - 1.5 bar [150 kPa] - 6 bar [600 kPa].
 - 2 bar [200 kPa] - 6 bar [600 kPa] for models with prewash module installed.

Drain outlet hose connection

- Connect the drain outlet hose to the main drain pipe, fitting a trap, or place the outlet pipe over an "S" trap set into the floor.

Plumbing connection



CAUTION

For every connection, installing a cut-off valve "B" and a pressure gauge "A" between the machine and the mains. Pay attention to seal every component in order to avoid water leaks.

**NOTE!**

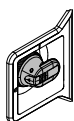
Connection pipes with anti-return/back flow protection and check valve and on/off valve are available as optional accessories.

To ensure efficient machine operation, install a water treatment device on the dishwasher inlet connection piping if:

- the water hardness exceeds 14°fH/8°dH/10°eH (a water softener and/or a water demineralizer);
- the water concentration of chlorides in water exceeds 20 ppm (a reverse osmosis device).

E.9 Constructional modifications

The Manufacturer provides for the possibility of connecting the rack-type dishwasher to rack handling systems included in the Electrolux Professional product catalogue, with the possibility of obtaining various configurations. The "EC" Conformity Declaration provided with the machine also envisages these configurations. The Manufacturer does not provide for the possibility of making other constructional modifications to the machine, but allows the execution of other types of combinations with systems different from those described above (in order to create a series of machines arranged and controlled in an integral way), as illustrated in this documentation. In which case it is necessary to comply with provisions of the applicable European Directives or current regulations in the country of use, and obtain the required certifications. The Manufacturer declines any liability for damage caused by arbitrary modifications and conversions carried out by the user or third parties. For requests or for further information, contact Electrolux Professional SpA - Via Treviso, 15 - 33170 Pordenone - Italy.

E.10 Installation of rack handling systems**WARNING**

Make sure that the switch disconnector of the machine is locked in the Off position - "O".

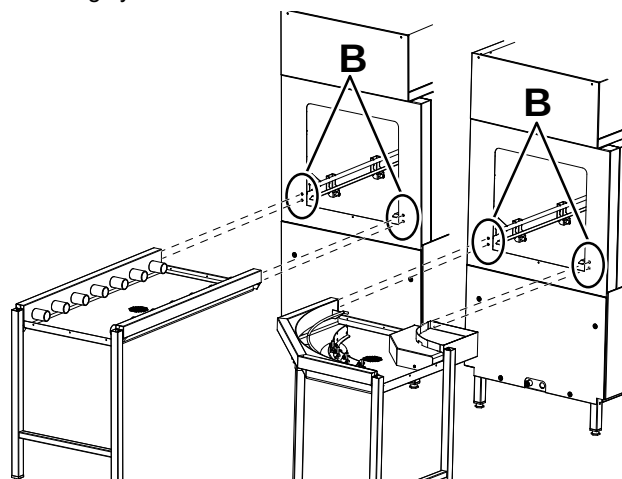
The arrangements for the mechanical and electrical connections provided for on the rack-type dishwasher are described below. For further details on the various types of rack handling system couplings, consult the instructions supplied with the specific handling system installed.

E.11 Arrangement for mechanical connection (only for Electrolux Professional rack handling system non motor operated)

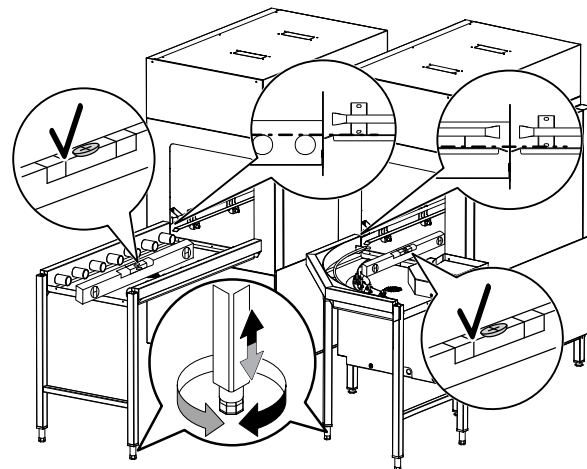
This arrangement is suitable for fitting non-motor-operated rack handling systems (e.g. roller-ways, tables, etc.).

1. Remove the vent(s) from the machine, if present.
You can see 2 holes in the left and 2 holes in right side of the machine panels.

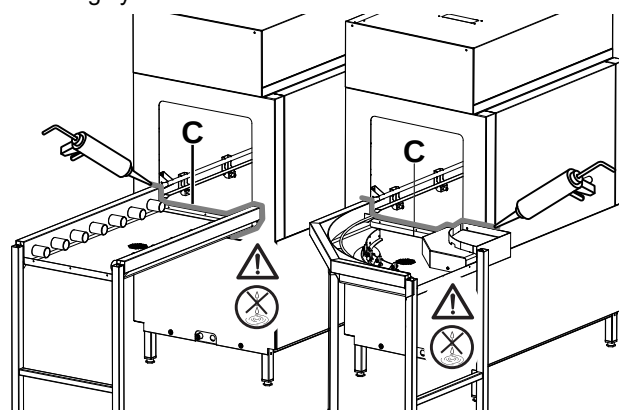
2. Use 4 metric screws ($\phi=6$ mm), "B" to connect the rack handling system to the dishwasher.



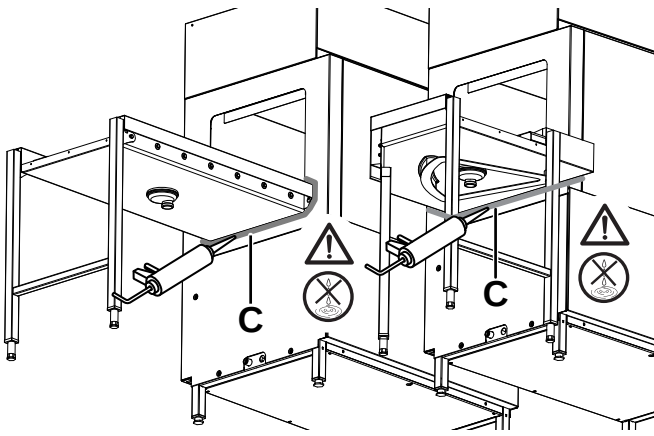
3. Adjust the equipment by turning the special adjustable feet and making sure it is perfectly level.



4. Refer to the instruction provided with the rack handling system to complete the installation.
5. Apply silicone¹ "C" between the dishwasher and the rack handling system.



1. It is available for this purpose recommended silicone by Electrolux Professional. You can order it with this reference code 059611.



CAUTION
Make sure that there are not any water leakages.

E.12 Arrangement for electrical connection (only for Electrolux Professional rack handling system motor operated)

This arrangement is suitable for fitting motor-operated rack handling systems (e.g. rope conveyor belts).

To install the motor-operated rack handling systems, consult the instructions provided with the Electrolux Professional rack handling system.

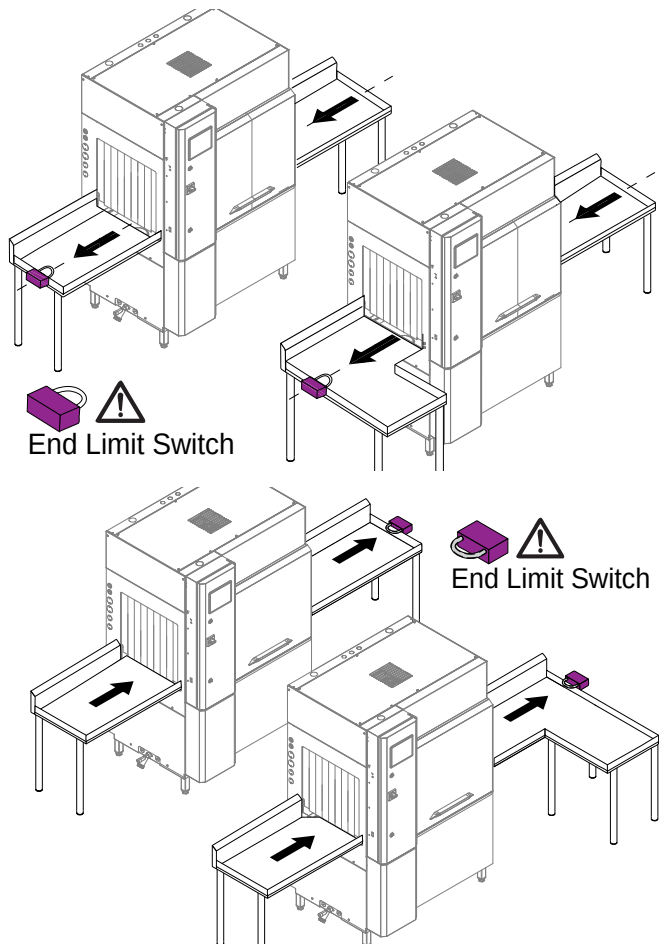


CAUTION
The electrical power lines of the rack handling system are protected against short circuits as shown in the wiring diagram.

E.13 Installation of the end limit switch



IMPORTANT
Install only Electrolux Professional End Limit Switch.

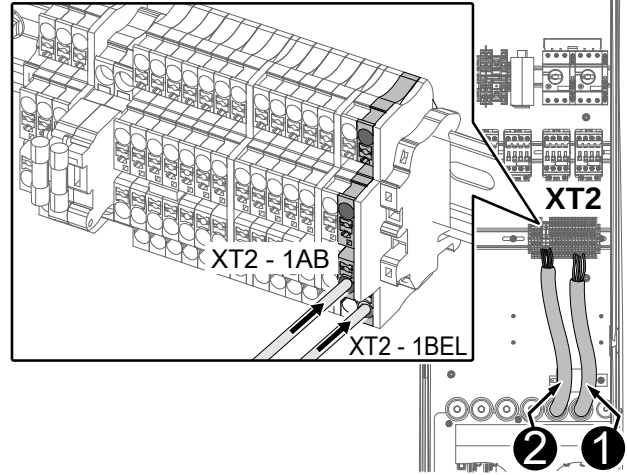


E.13.1 Prearrangement for electrical connection

The machine is pre-configured for the installation of end limit switch.

Proceed as follows to connect the end limit switch to the machine:

- open the door electrical box;
- pass the cables for connection through the cable glands "1" or "2";
- connect the end limit switch to the XT2-1BEL and XT2-1AB terminal blocks.

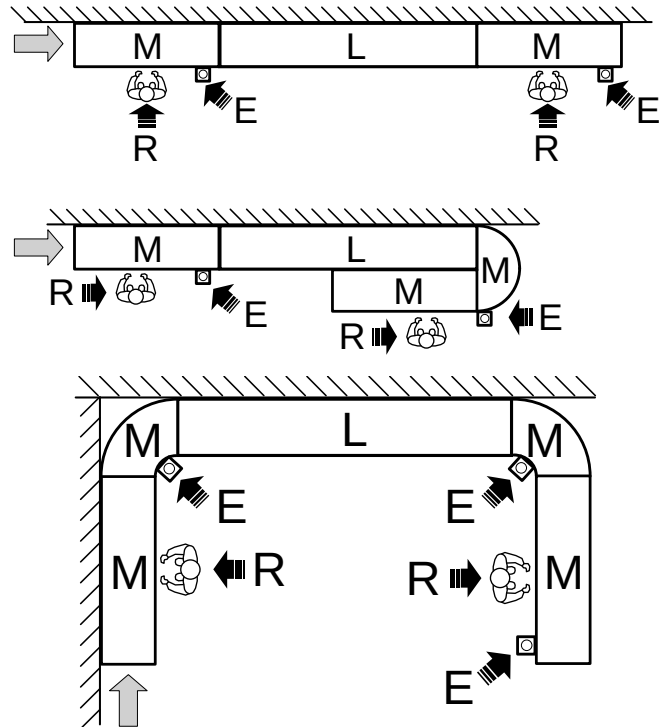


CAUTION
Make sure to install the end limit switch properly.

E.14 Positioning of emergency switches

If rack handling systems are connected at the infeed or outfeed of a rack-type dishwasher, install on such systems emergency switches that are clearly visible and identifiable and easily accessed by the operator "R" who must use them.

Described below are possible couplings of dishwashers "L" with rack handling systems "M", with the corresponding positions of the emergency switches "E" and work stations "R".



"R"	Operator or work station
"L"	Dishwasher
"M"	Rack handling systems
"E"	Emergency switch

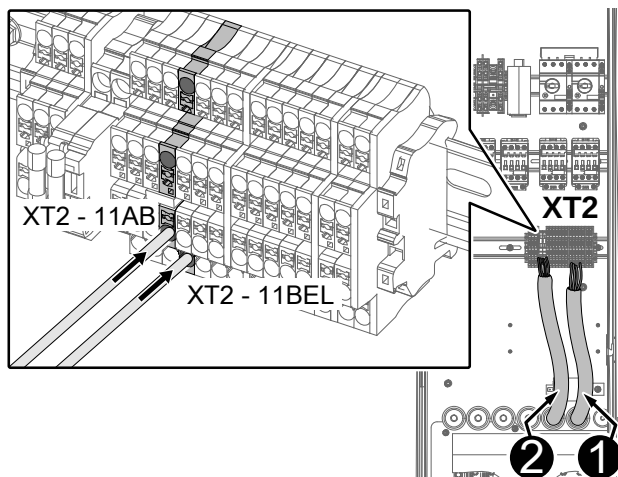
E.14.1 Electrical connection

Proceed as follows to connect the emergency switches to the machine:

1. open the door electrical box;
2. pass the cables for connection through the cable glands "1" or "2";
3. connect the emergency switches to:

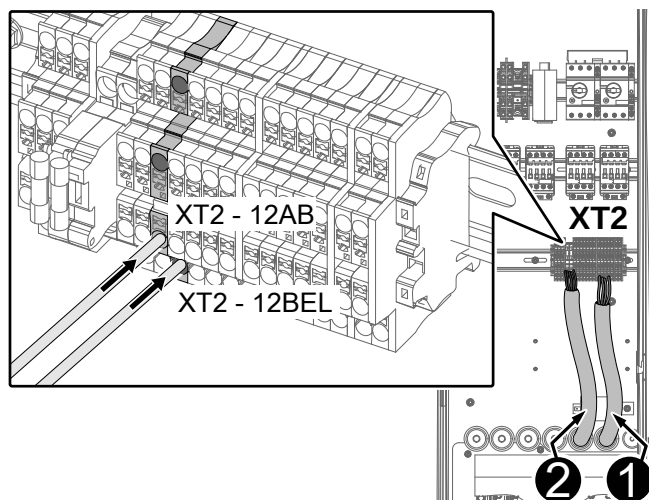
Emergency switch IN

- XT2-11BEL and XT2-11AB terminal blocks



Emergency Switch OUT

- XT2-12BEL and XT2-12AB terminal blocks

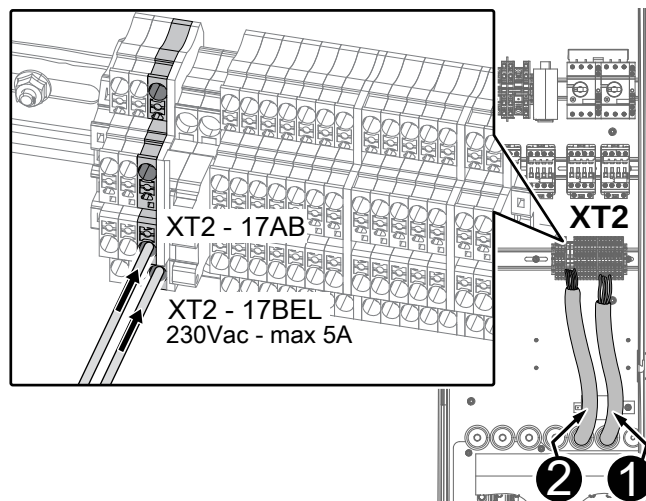


E.15 Exhaust fan electrical connection

By connecting the external suction fans, they are activated/deactivated when the machine is ready to operate or it is operating. Also, the fans are deactivated when a part of the machine is opened or the emergency switch is pressed, putting the entire installation in safe conditions.

Proceed as follows to connect the external ventilation hood signal to the machine:

- open the door electrical box;
- pass the cables for connection through the cable glands "1" or "2";
- connect the external ventilation hood to:



NOTE!

For additional information, refer to the wiring diagram, supplied with the equipment.

E.16 Installation of detergent/rinse aid dispensers

The machine is pre-configured for installation of detergent and rinse aid dispensing devices.

The dispensers must be installed in a way that does not compromise machine operation or safety.



WARNING

Contact with chemical substances (e. g. detergent, rinse aid, scale remover, etc.) without taking appropriate safety precautions (e. g. personal protection equipment) can involve exposure to chemical risk and possible damage to health. Therefore always refer to the safety cards and labels on the products used.



CAUTION

Do not start the machine if the dispenser devices do not meet the safety requirements of "EC" Directives or current regulations in the country of use.



CAUTION

The use of "foaming"/non-specific detergents or in any case detergents used in different ways from that prescribed by the manufacturer, can cause damage to the dishwasher and compromise washing results.



NOTE!

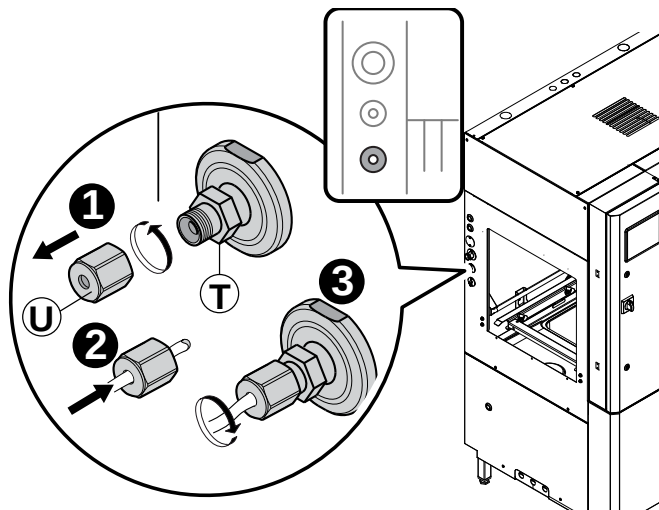
To obtain excellence washing performance, use detergent, rinse aid and descaling agent suggested by Electrolux Professional. In the Electrolux Professional web site, open the "Accessories and Consumables" web page and navigate into the dishwashing equipment tab to order most suitable detergents and accessories.

E.16.1 Rinse aid dispenser

The left or right side panels of the dishwasher have a "T" injector [$\varnothing=6$ mm] for connecting the rinse aid dispenser.

To connect the dispenser, carefully carry out the following instructions:

- unscrewing the "U" fitting from the "T" injector;
- connect the rinse aid pipe, coming from the external dispenser, on the "U" fitting;
- screw the "U" fitting tightly to the "T" injector paying careful attention to any potential plumbing leaks.

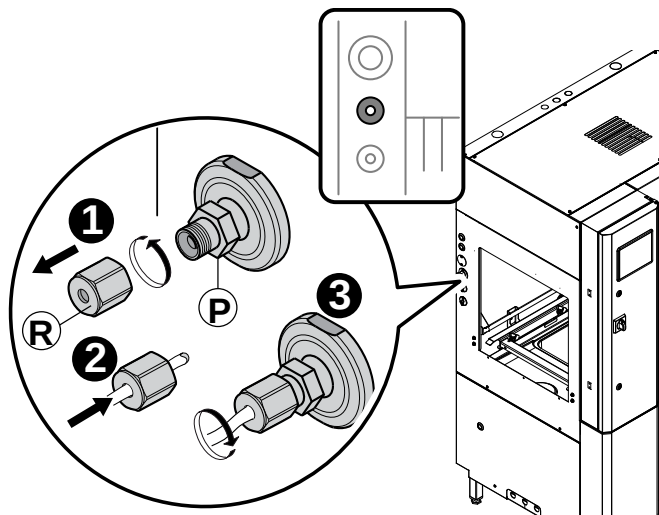


E.16.2 Liquid detergent dispenser

The left or right side panels of the dishwasher have a "P" injector [$\varnothing=6$ mm] for connecting the detergent dispenser.

To connect the dispenser, carefully carry out the following instructions:

- unscrewing the "R" fitting from the "P" injector;
- connect the detergent pipe, coming from the external dispenser, on the "R" fitting;
- screw the "R" fitting tightly to the "P" injector paying careful attention to any potential plumbing leaks.

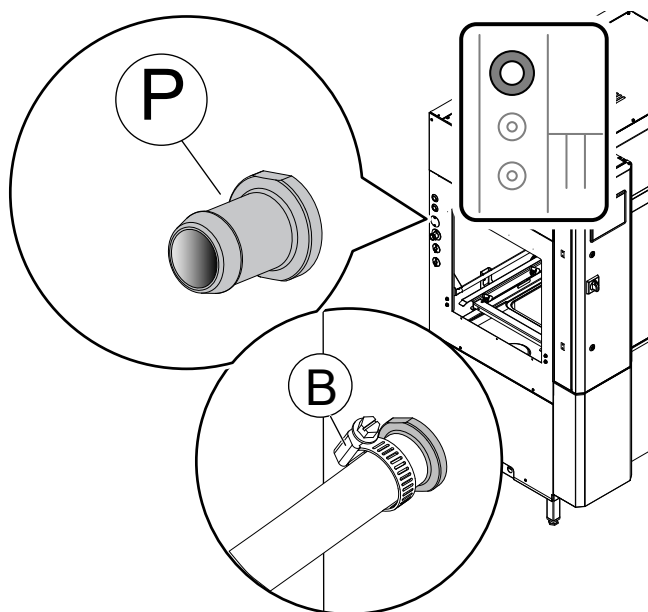


E.16.3 Solid detergent dispenser

The left and right side panels of the dishwasher have a hose union "P" for connecting the solid/powder detergent dispenser.

To connect the dispenser, carefully carry out the following instructions:

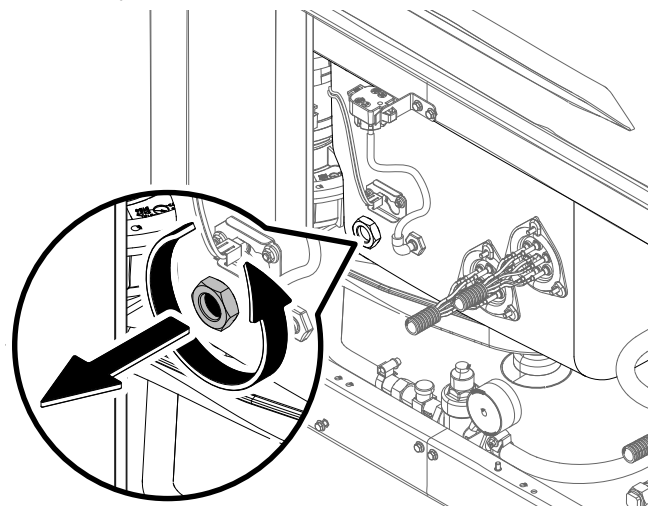
- fit the solid detergent pipe, coming from the external dispenser, on hose union "P";
- secure the pipe to the hose union with a clamp "B".



E.16.4 Conductivity probe

Remove the front panel. In the lower part of the tank there is an additional closed hole ($\varnothing = 22$ mm) to be used for the installation of the conductivity probe.

With a 24 mm wrench remove the plug and install the conductivity probe.



E.17 Dispensers electrical connection



CAUTION

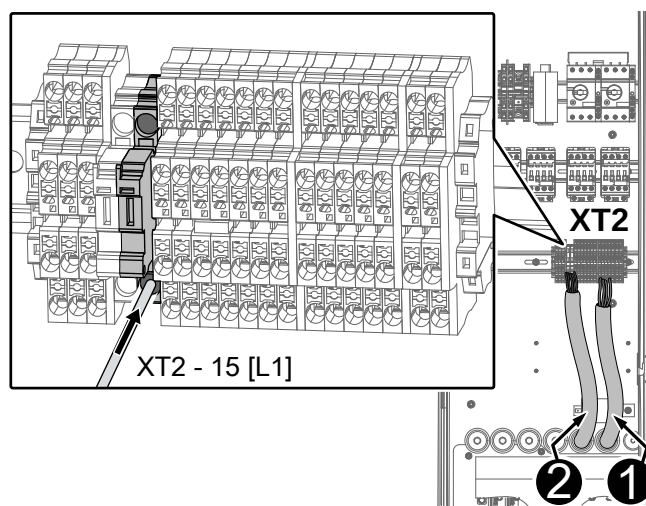
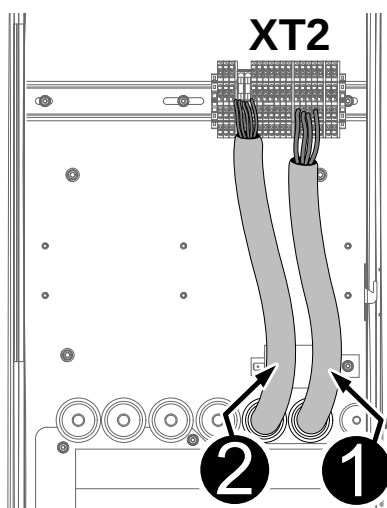
Do not make direct connections on the printed circuits.



NOTE!

The connection cables must comply with the standards: CEI EN 60332, CEI EN 50265, CEI 20 - 35, CEI 20 - 20.

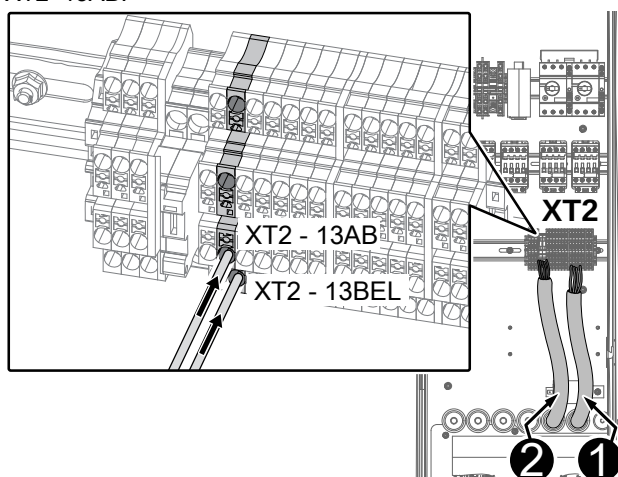
Open the door electric box and pass the cables for electrical connection through the connection cables "1" or "2".



XT2-13BEL	DETERGENT START SIGNAL
XT2-13AB	(230Vac - max 2A)
XT2-14BEL	RINSE AID START SIGNAL (230Vac
XT2-14AB	- max 2A)
XT2-15 [L1]	EXTERNAL DISPENSER POWER
XT2-16 [N]	SUPPLY (230Vac - max 5A)

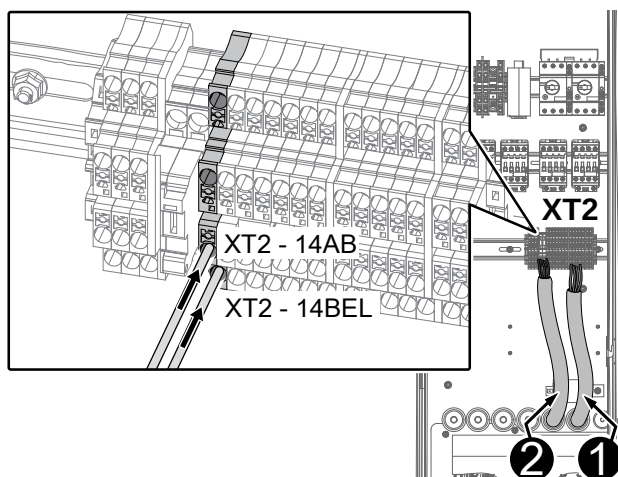
E.17.1 Liquid detergent dispenser

- Connect the dispenser between terminals XT2-13BEL and XT2-13AB.



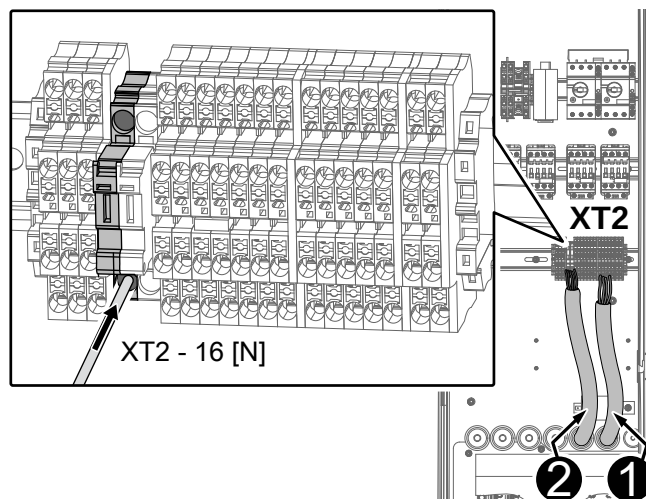
E.17.2 Rinse aid dispenser

- Connect the rinse aid dispenser between terminals XT2-14BEL and XT2-14AB.



E.17.3 Solid detergent dispenser

- Connect the dispenser between terminals XT2-15 [L1] and XT2-16 [N].



IMPORTANT

Make sure to close the door of the electric box, firmly at the end of the installation.



NOTE!

For additional information, refer to the wiring diagram, supplied with the equipment.

E.18 Electrical connections



WARNING

Refer to “*Safety Information*”.



CAUTION

The connection cable must be “H07RN-F” type, oil proof. Tighten the cables properly using a maximum torque of 6 Nm.

Make sure the machine power supply voltage specified on the data plate matches the mains voltage B.3 *Machine and manufacturer's identification data*.

Make sure the system power supply is arranged and able to take the actual current load and that it is executed in a workmanlike manner according to the regulations in force in the country of use.

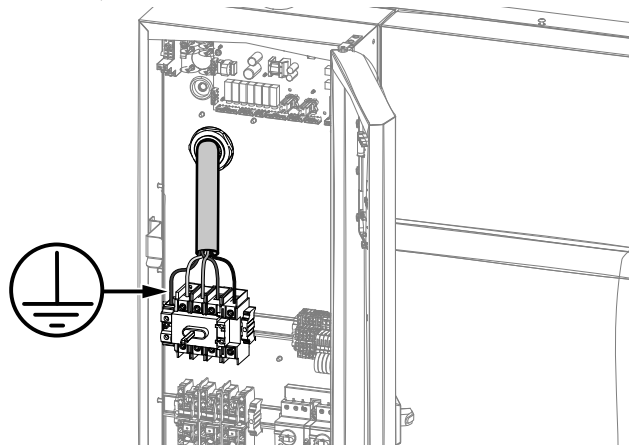
The earth wire from the terminal board side must be longer (max 20 mm) than the phase wires. Connect the power cable earth wire to an efficient earth.

The machine must also be included in an equipotential system, whose connection is made by means of screw EQ (see par. *Installation diagram*) indicated by the symbol ∇ . The equipotential wire must have a section of at least 10 mm².

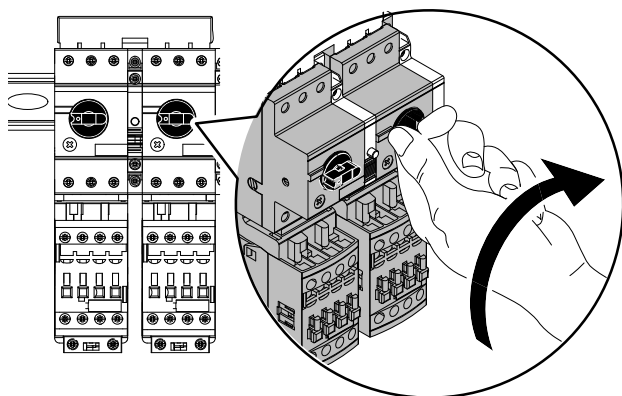
Connect the power cable to the equipment:

- open the door electrical box;
- pass the power cables through hole;

- connect the power cable to the switch disconnecter of the machine;



- activate all the contactors by turning clockwise the contactor knob from position "O" to "I";



IMPORTANT

Make sure to close the door of the electric box, firmly at the end of the installation.



NOTE!

For additional information, refer to the wiring diagram, supplied with the equipment.

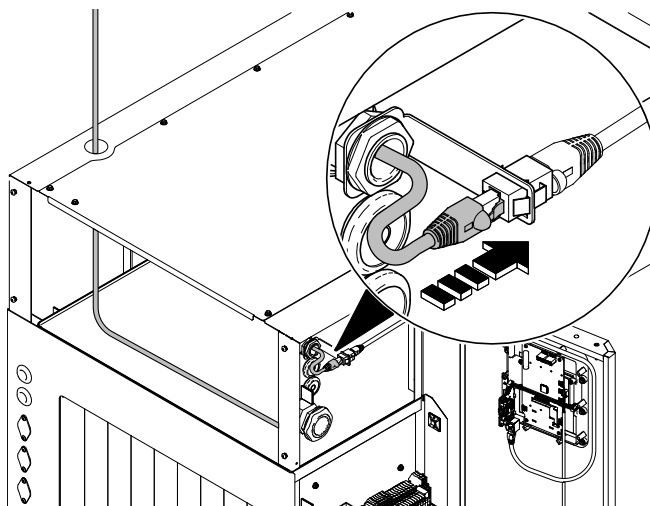
E.19 Ethernet connection of IOT module

- From one of the top or back opening, lay the Ethernet cable till the back panel of the electrical box;
- open the door electrical box;
- pass the cables for connection through the cable glands;
- connect the Ethernet plug into the socket.



IMPORTANT

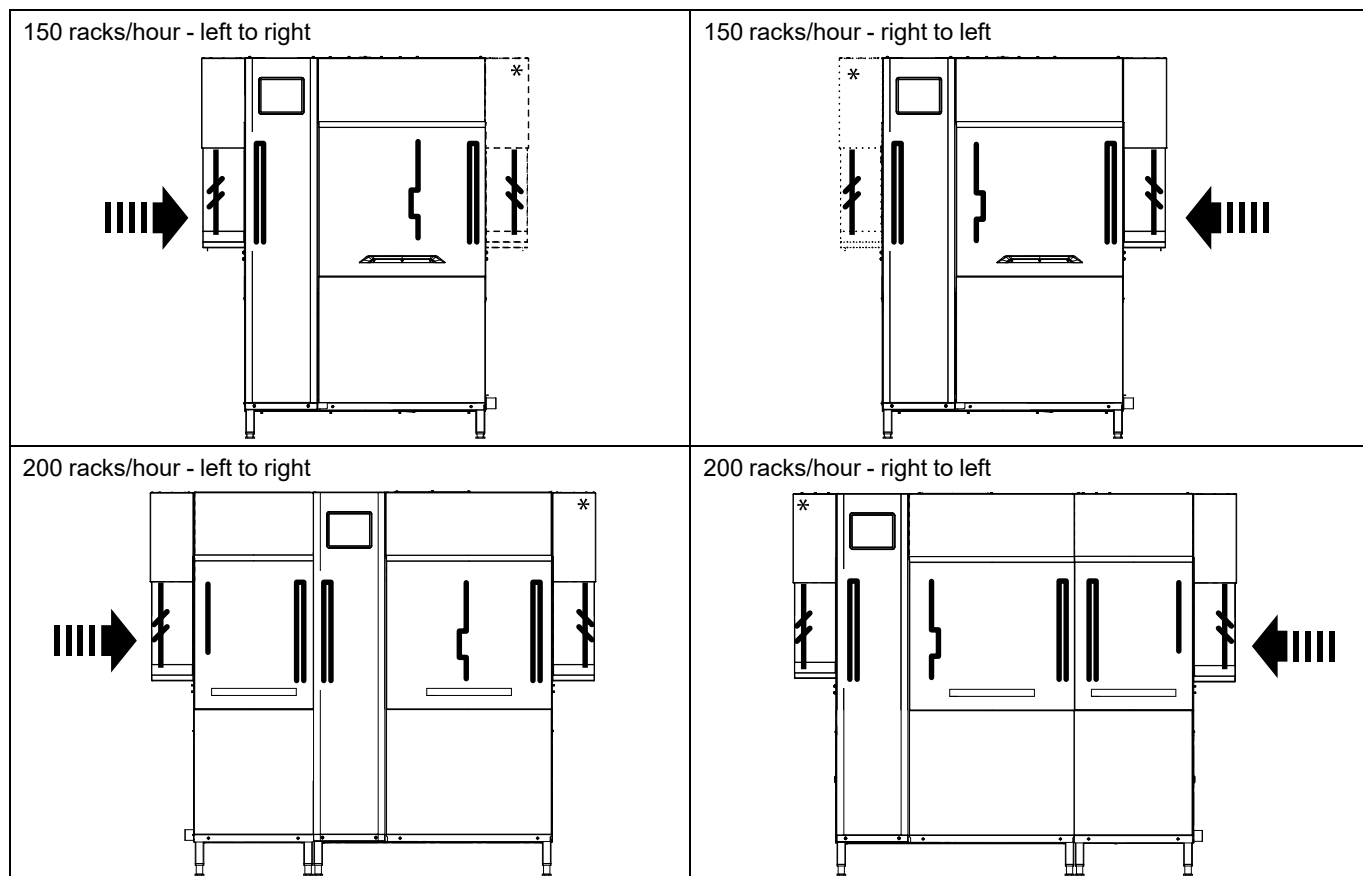
Make sure to insert the plug cable properly.



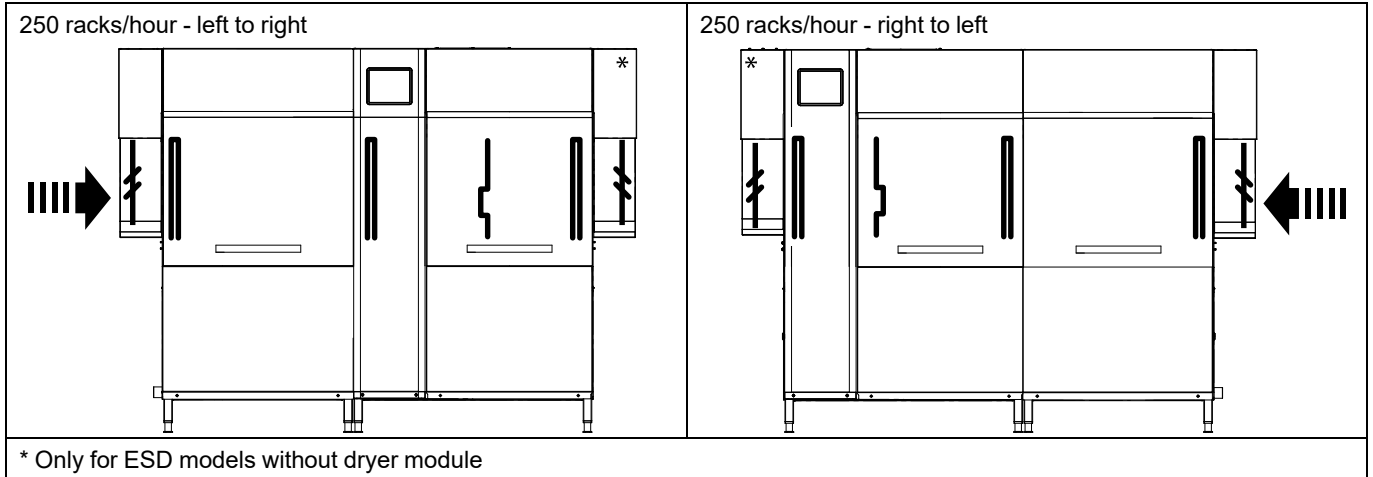
E.20 Fitting curtains

With the machine switched off and cold, fit or refit the curtains as illustrated below.

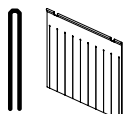
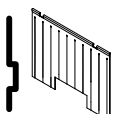
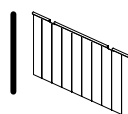
Curtains position



Curtains position (cont'd.)

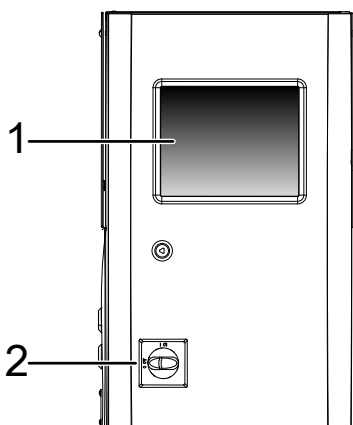


Type of curtains

Double long	Single short		Single long for hood
			

F CONTROL PANEL DESCRIPTION

F.1 Control panel overview



- | | |
|---|--|
| 1 | Touch screen with direct selection of functions. Touch the selected icons to activate the corresponding functions. |
| 2 | Depending on the model:
- switch disconnector or emergency switch. |

F.2 Touch screen description

The machine works using a touchscreen with touch-sensitive icons.

Touch the icons on the screen to activate the requested actions or to see information related the machine, the wash cycle or any malfunctions.



NOTE!

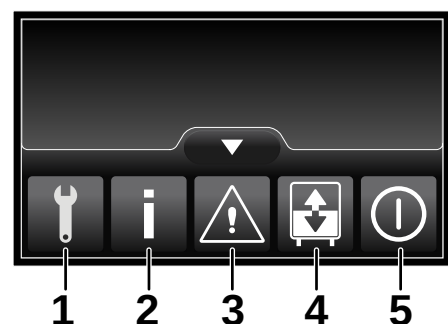
This type of touch screen allows you to start, stop or change some settings in all of normal work conditions:

- hands with gloves;
- wet or dirty fingers.

Main touch screen icons

	Lower wash speed icon
	Medium wash speed icon
	Higher wash speed icon
	Pause icon. Touch it again to start the wash speed previously set.
	Touch this icon to activate "Pop Up menu"
	Touch this icon to deactivate "Pop Up menu"
	Touch this icon to come back to the previous menu
	Touch this icon to confirm your selection
	Touch this icon to scroll up the screen page
	Touch this icon to scroll down the screen page
	This icon appears when you have set a function and you want come back to the "Pop Up menu"

Pop Up menu



- | | |
|---|--|
| 1 | "Service" menu, protected by a password. |
| 2 | "Information" menu |

G COMMISSIONING

G.1 Preliminary checks, adjustments and operational tests

Before starting the machine, check:

1. electrical and plumbing connections;
2. positioning of tank components;
3. washing and rinse arms position and fitting;
4. curtains position and fitting.

These operations must only be carried out by specialized technicians provided with adequate personal protection equipment (refer to A.3 *Personal protection equipment*), tools and suitable ancillary equipment with the machine switched off and cold.

G.2 Electrical and plumbing connection

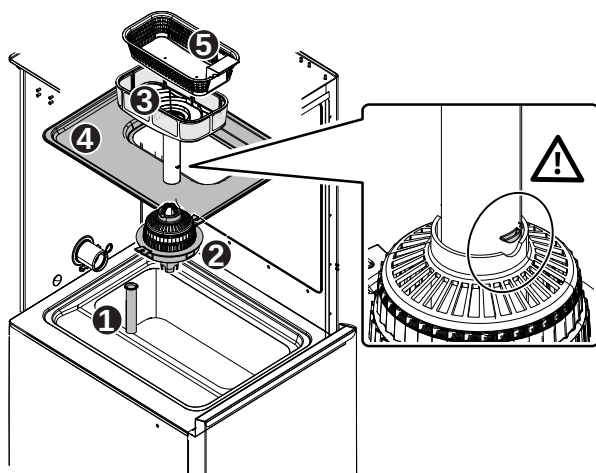
Before starting the machine, check:

1. correct connection of the electrical wires that feed the machine;
2. the power supply voltage and frequency match the data given in the technical data table (C *TECHNICAL DATA*);
3. correct connection of the water supply and drain pipes (E.8 *Plumbing connections*);
4. guards, safety devices and emergency switches are in place and properly installed.

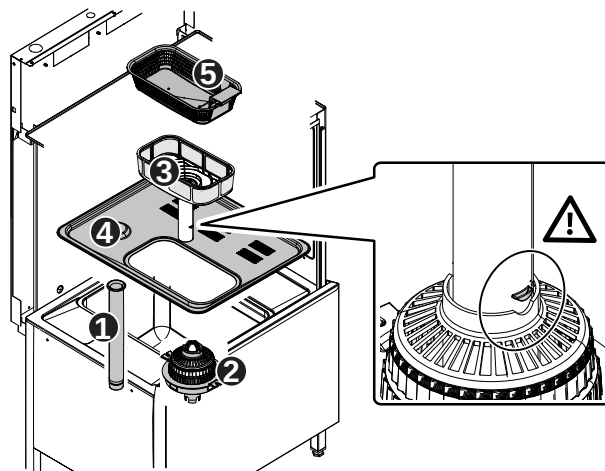
G.3 Positioning and fitting of the tank components

Before starting the machine, check the fitting of filters and overflows of:

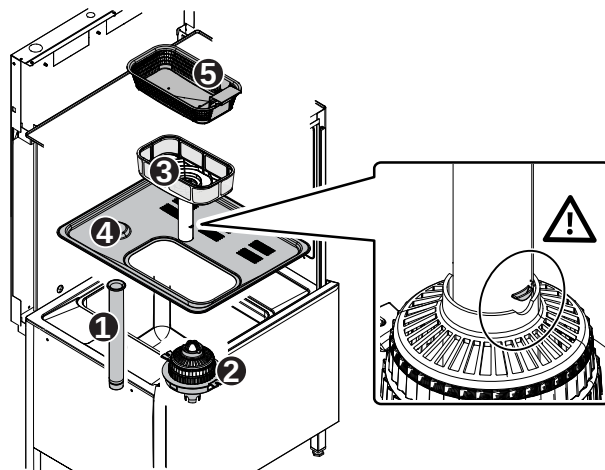
1. prewash 22" module, if present;



2. prewash 35" module, if present;



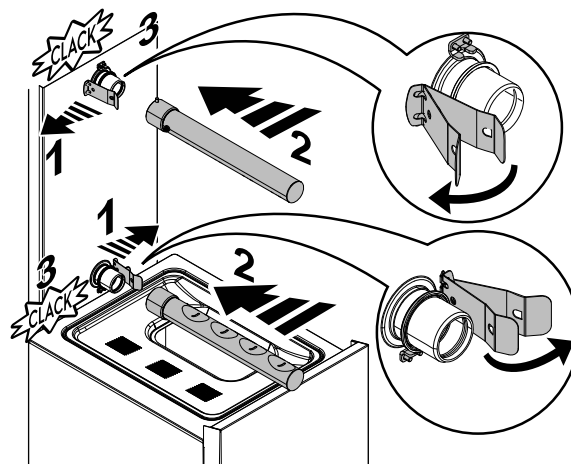
3. wash module;

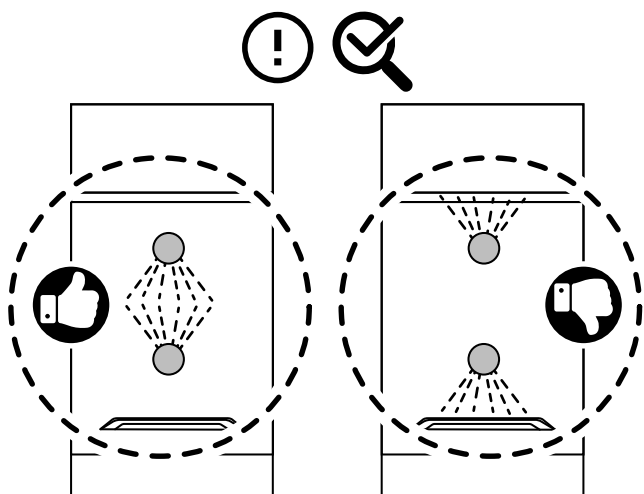


G.4 Positioning and fitting of the washing and rinse arms

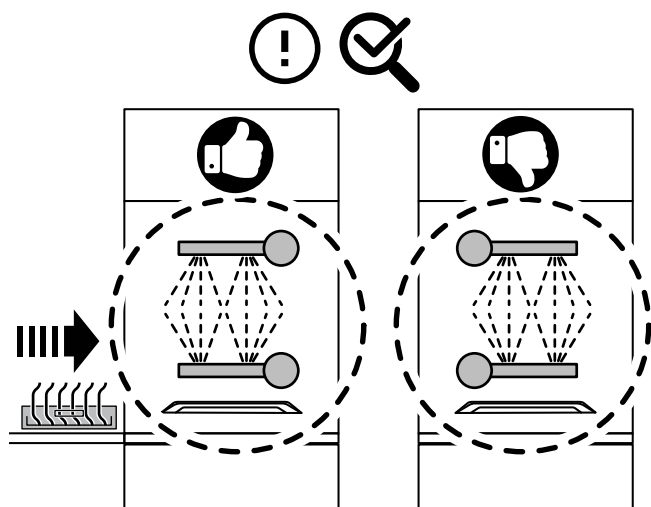
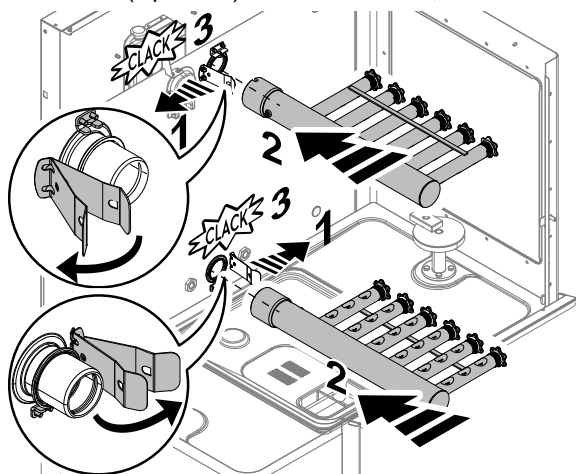
Before starting the machine, check the fitting of upper and lower arms of:

1. prewash 22" module (if present);

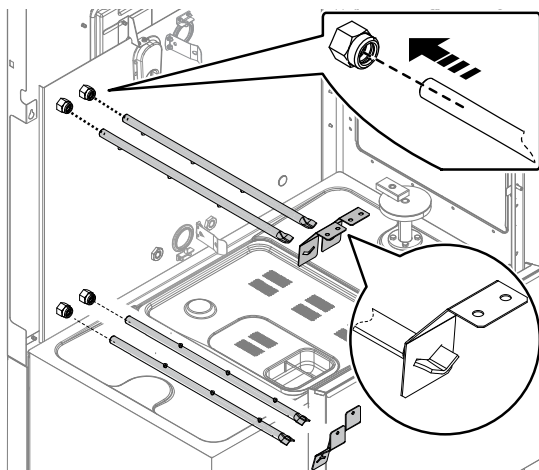




2. prewash 35" (if present) and wash module;



3. the arms of rinse module.



G.5 Positioning and fitting of the curtains

Make sure all the types of curtains, provided with the machine, are correctly fitted according to that indicated in paragraph "E.20 Fitting curtains".

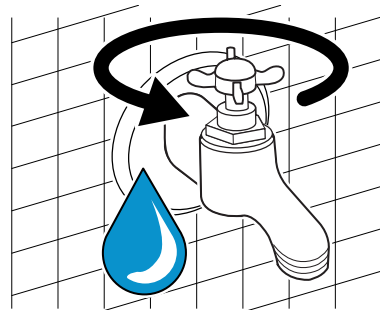


IMPORTANT

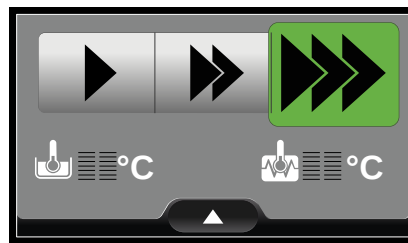
Close the doors of the various appliance modules only when all the parts previously described are correctly installed, then start the machine.

G.6 First starting

1. Open the water supply taps.



2. Turn the main switch, placed on the door of the electric cabinet, from position "O" to "I" to power the machine.
3. When the display shows the ready status, the dishwasher is ready to work.



IMPORTANT

To guarantee sanitization of the dishes, wash **at least 3 empty racks** at lowest speed. This allows all the machine to reach the working temperature. Repeat the procedure if the machine is stopped for a long time.

H BASIC MACHINE SETUP

H.1 Installation wizard

At the first start of the dishwasher or after any additional installation of a new accessories, an automatic procedure checks if all the parameters are properly set.

The “installation wizard” helps the specialised personnel, step by step, to update all the required machine settings.

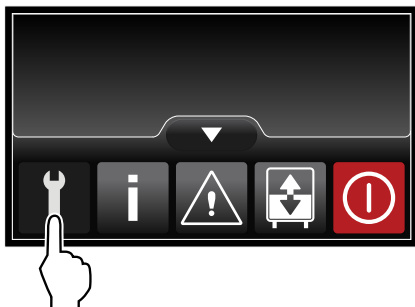


IMPORTANT

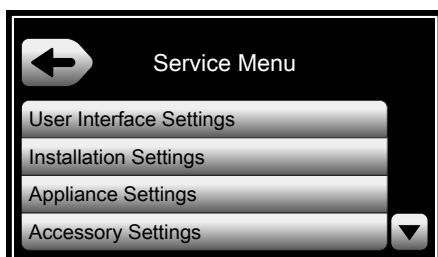
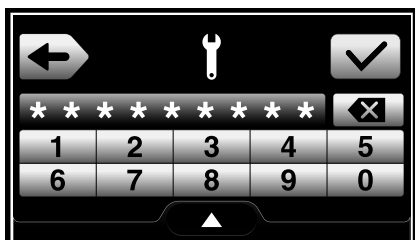
- Only specialised personnel has the possibility to change machine settings.
- Always refer to the “service manual” to change or modify machine settings.
- When the machine is in fault due to an error, the display shows the error code and the phone number of the Service Centre. It is important keep the phone number always updated.

H.2 Enter into service menu

1. Touch the icon to activate “Pop Up menu”.
2. Touch the Service icon to enter into Service Menu.



3. Insert the password “11111111” and touch the confirm icon to log in the Service Menu.



4. To navigate into the Service menu, touch the page down and page up icon.
To confirm the selected option, touch the icon .
To return to the previous menu, touch the icon

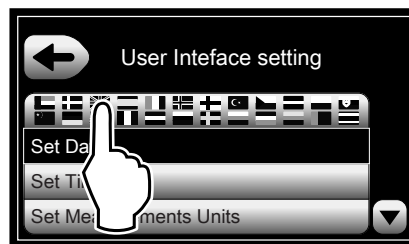
H.3 User Interface settings menu

To see all the options, touch page down or page up icon.

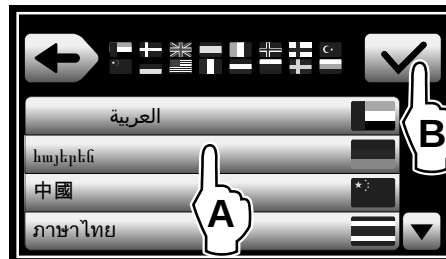
To confirm the selected option, touch the icon .

To return to the previous menu, touch the icon .

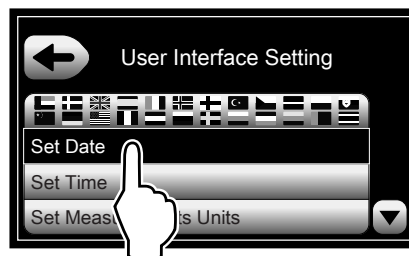
1. Set the “language”.



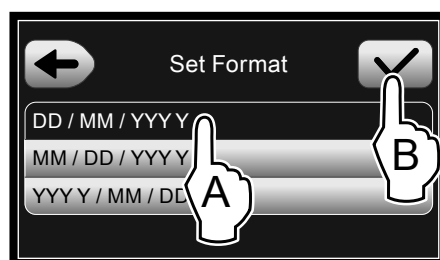
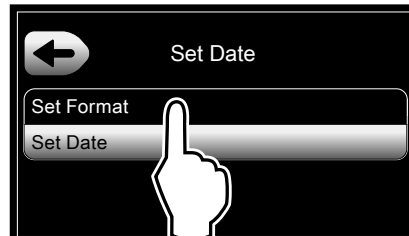
2. Find your language and confirm your selection.



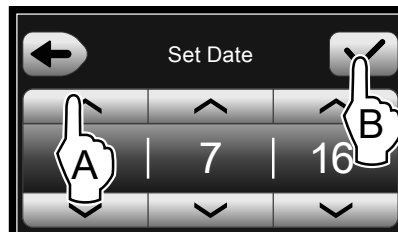
3. Set “date” parameters.



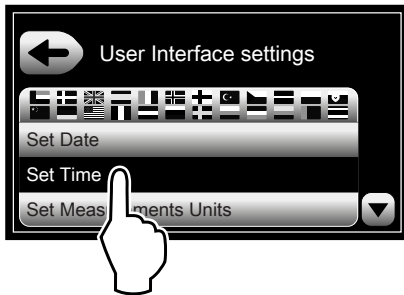
4. Set the format date.



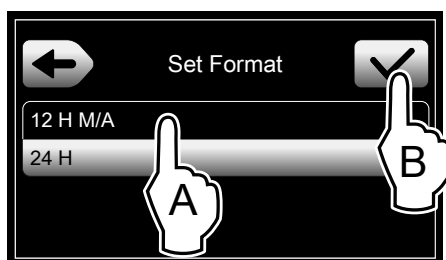
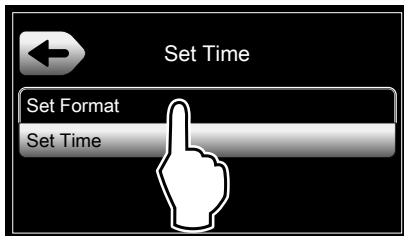
5. Set the current date.



6. Set "time" parameters.



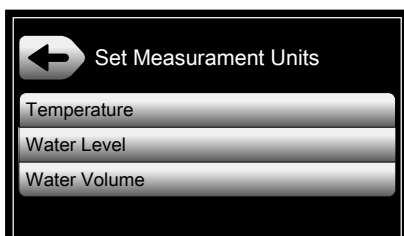
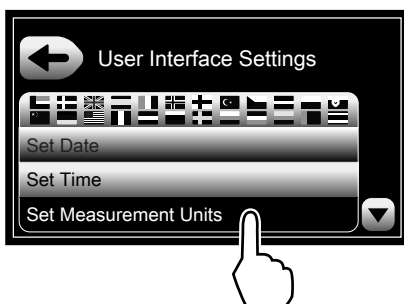
7. Set the time format.



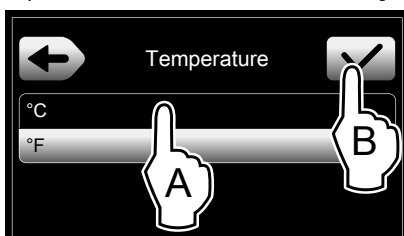
8. Set the current hour.



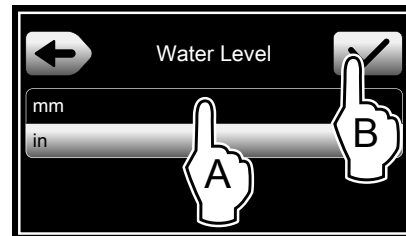
9. Set "measurements units" parameters.



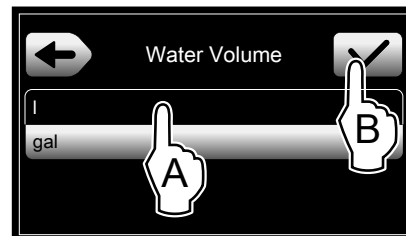
10. Set the temperature in Celsius or Fahrenheit [°C - °F].



11. Set the water level in mm or inch.



12. Set the water volume in litres or gallons.



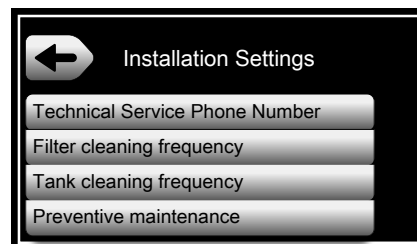
H.4 Installation settings menu

To see all the options available, touch page down or page up icon.

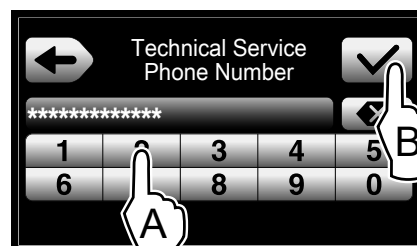
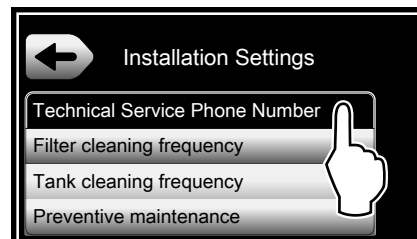
To confirm the selected option, touch the icon .

To return to the previous menu, touch the icon .

1. Enter into the "Installation settings menu"



2. Insert the "Technical Service Phone Number".



- Set the **"Filter cleaning frequency"**. The display shows you the default value. Insert the new value and confirm it. Please ask to the customer the value for the "Filter cleaning frequency" parameter. It depends on the type of tableware that the dishwasher must wash.



IMPORTANT

If "Filter cleaning frequency" parameter is set to 0, this option is completely disabled.



NOTE!

On the bottom part of the display, the minimum, maximum and the default values appears alternately.

- Set the **"Tank cleaning frequency"**. The display shows you the default value. Insert the new value and confirm it. Please ask to the customer the value for the "Tank cleaning frequency" parameter. It depends on the type of tableware that the dishwasher must wash.



IMPORTANT

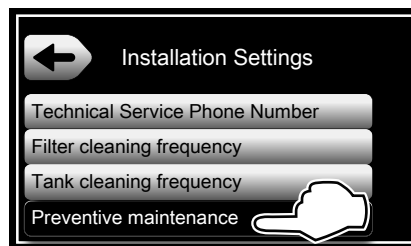
If "Tanks draining frequency" parameter is set to 0, this option is completely disabled.



NOTE!

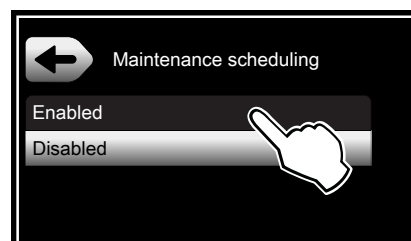
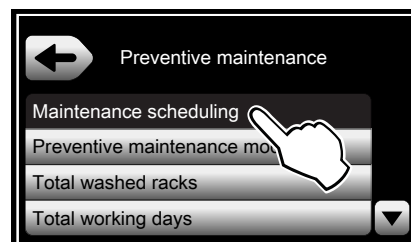
On the bottom part of the display, the minimum, maximum and the default values appears alternately.

- Set the **"Preventive maintenance"**. This option helps the user to keep the dishwasher in excellent conditions of efficiency. The display shows you all the parameters to set properly this option.

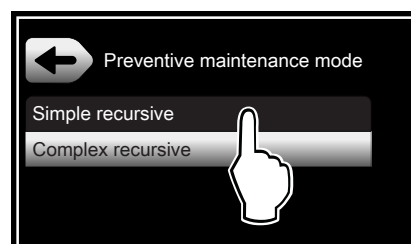
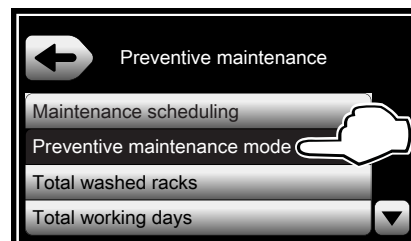


H.4.1 Preventive maintenance setting

- Enable or disable the "Maintenance scheduling" parameter. This parameter allows to activate or deactivate the maintenance pop up in the display.



- Set the **"Preventive maintenance mode"** and select the type of maintenance:

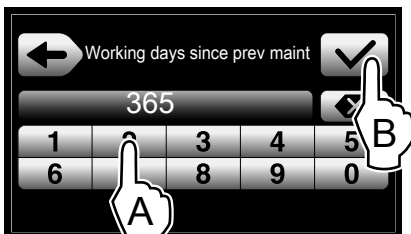
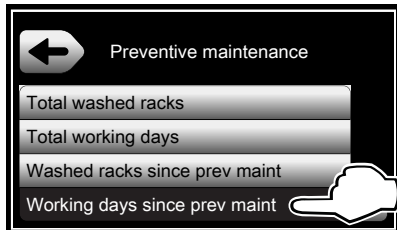
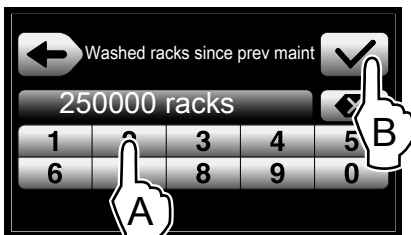
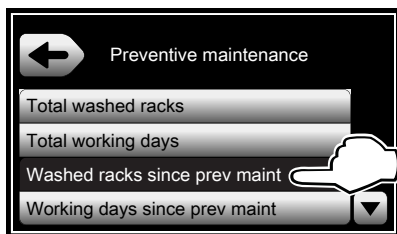


- Simple recursive maintenance.**

It is the easier mode of "preventive maintenance". It works with fixed frequencies. The below parameters are enabled with factory values.

- "Washed racks since previous maintenance."**
It is the maximum number of washed racks between two maintenance operations.
- "Working days since previous maintenance."**
It is the maximum number of days between two maintenance operations.

The technician can modify these parameters depending on the type of tableware that the dishwasher must wash. The "simple recursive" maintenance mode starts as soon as the installation is completed.



4. **Complex recursive maintenance.**

It is the more complicated mode of "preventive maintenance". Two additional parameters are enabled compare simple recursive maintenance mode. The below parameters are enabled with factory values.

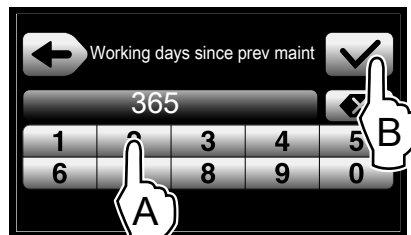
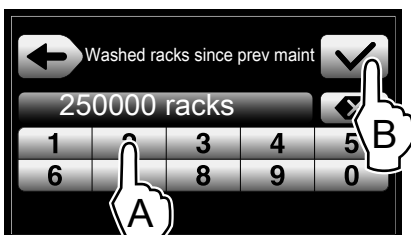
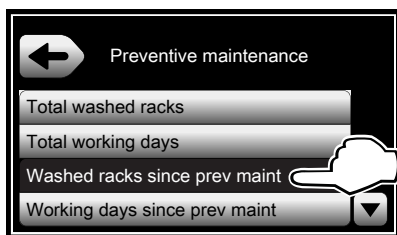
- **"Total washed racks."**

It is the maximum number of washed racks from the end of installation to the first maintenance operation.

- **"Total working days."**

It is the maximum number of days from the end of installation to the first maintenance operation.

The technician can modify these parameters depending on the type of tableware that the dishwasher must wash.



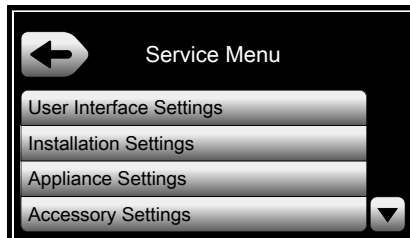
H.5 Appliance settings



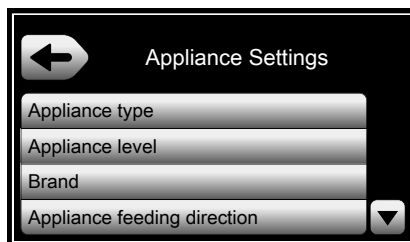
IMPORTANT

Before to insert the rack with dishes, it is necessary set the feeding direction.

1. Enter into service menu.



2. Enter into appliance settings menu.



3. Enter into appliance feeding direction menu and set the right direction.

