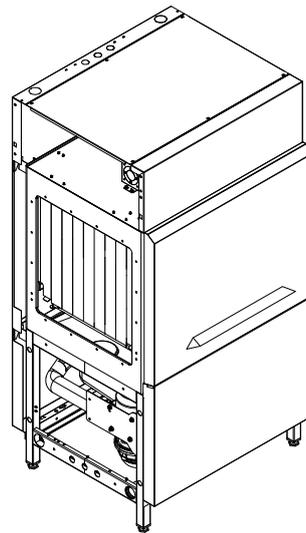


# Prewash module

Medium 22" - Large 35"



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EN Installation manual \*

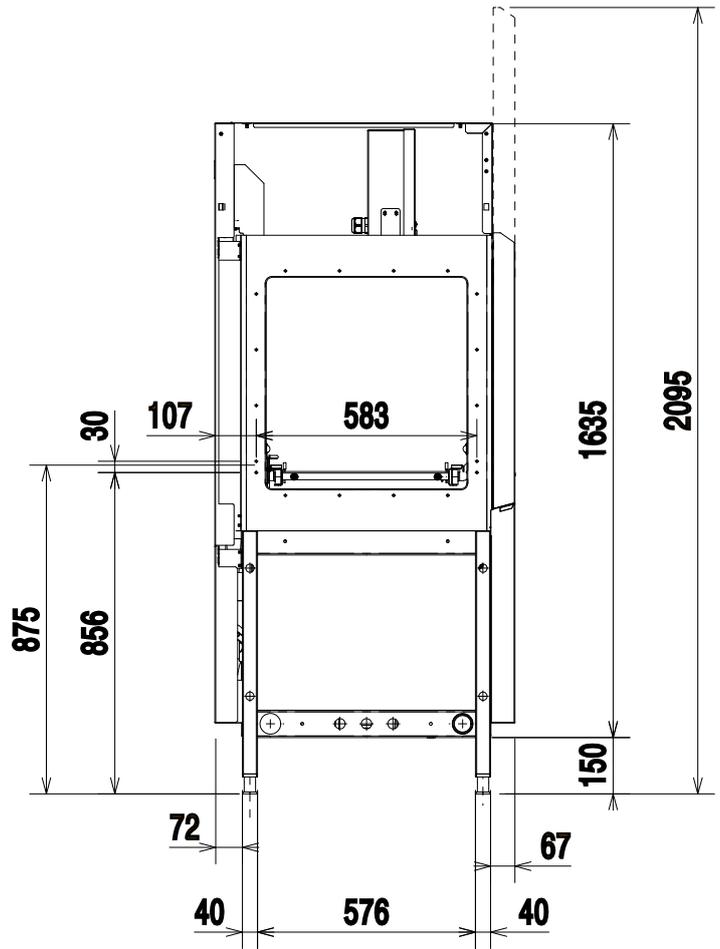
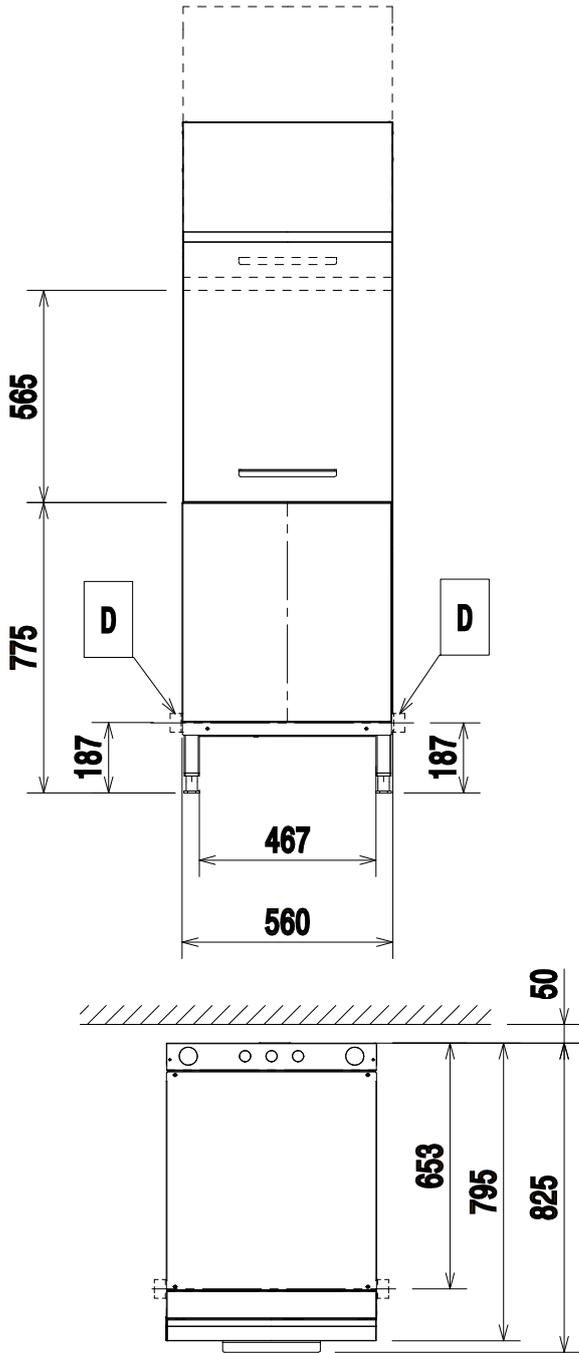


\*Original instructions

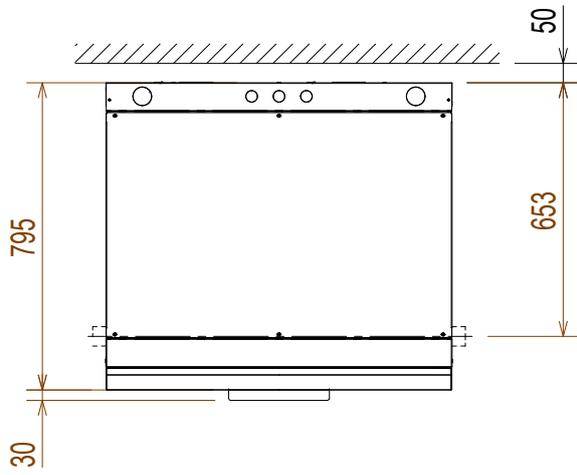
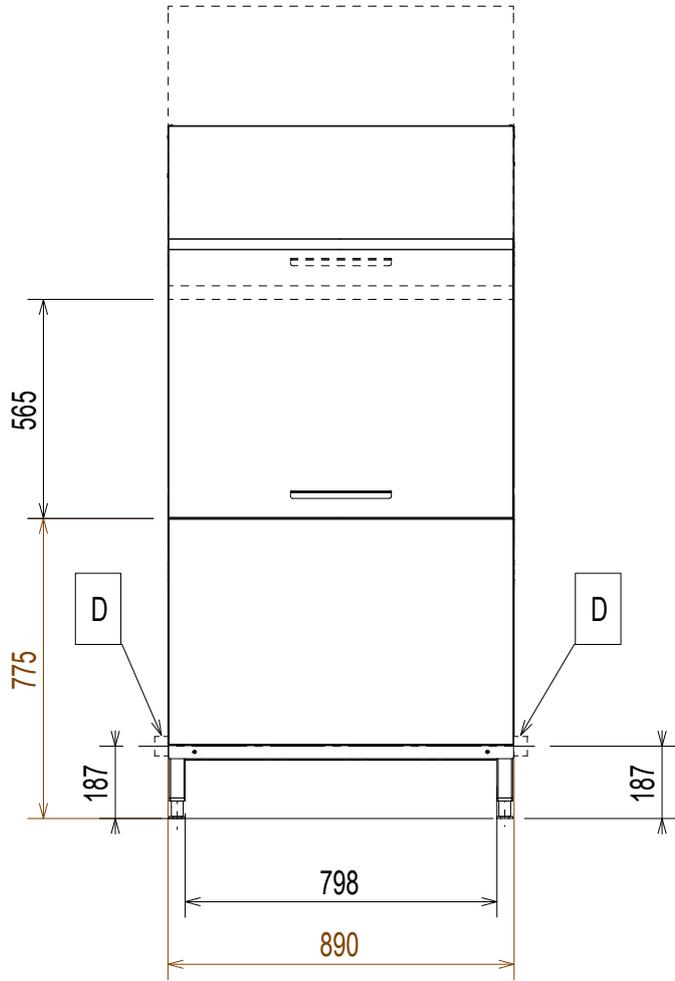
59566LD01- 2020.12

Installation diagram

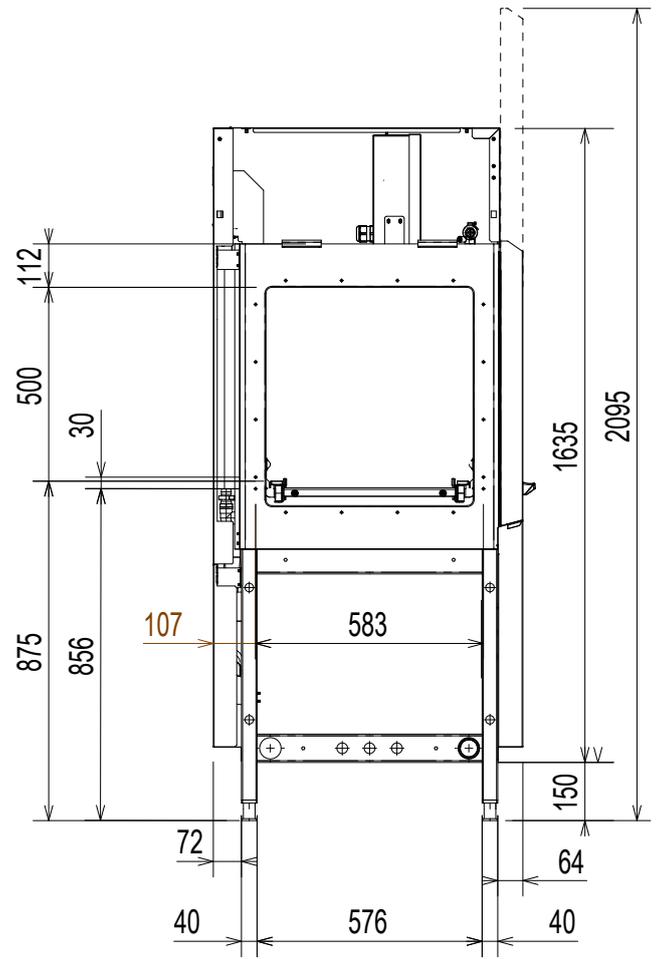
Prewash module 22" for ESD dishwasher



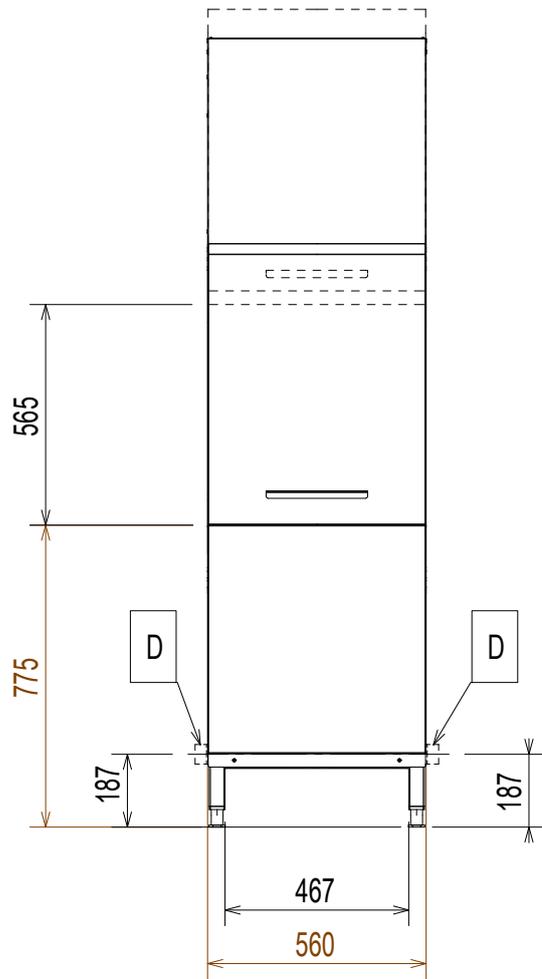
**Installation diagram**



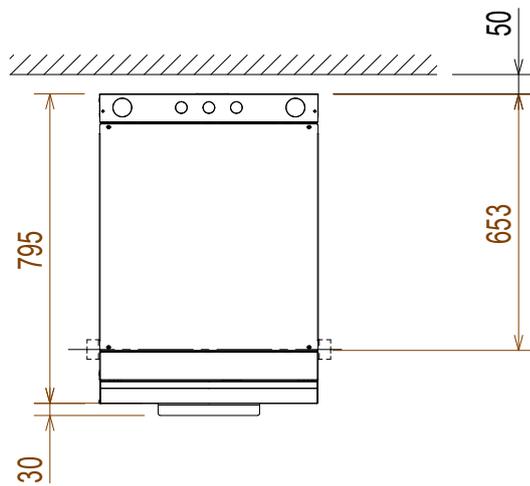
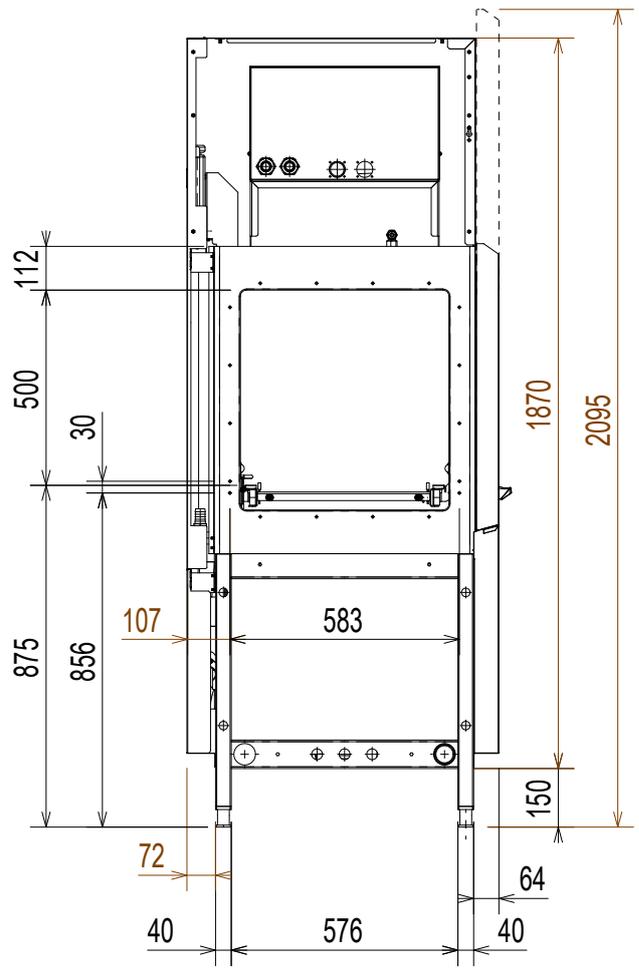
**Prewash module 35" for ESD dishwasher**



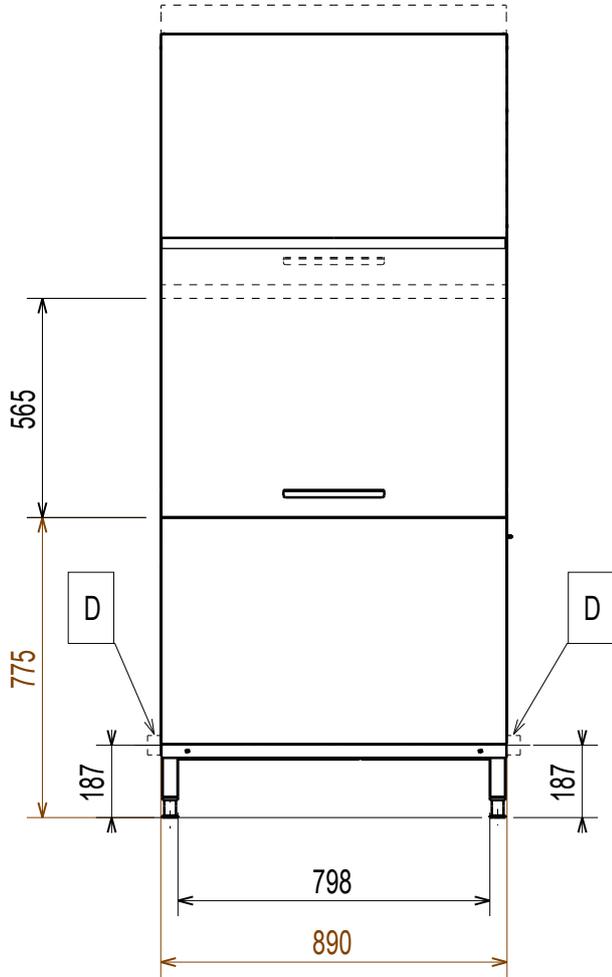
# Installation diagram



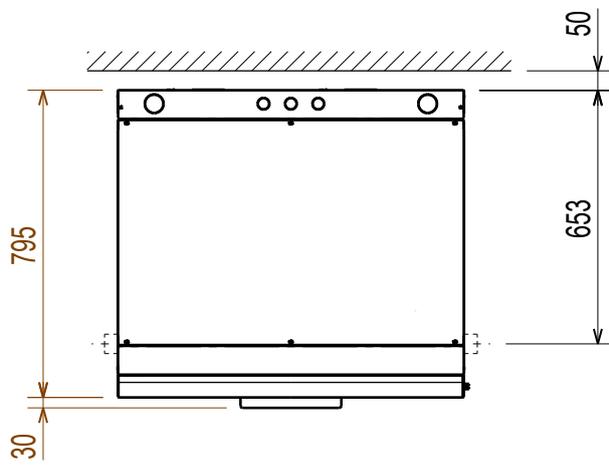
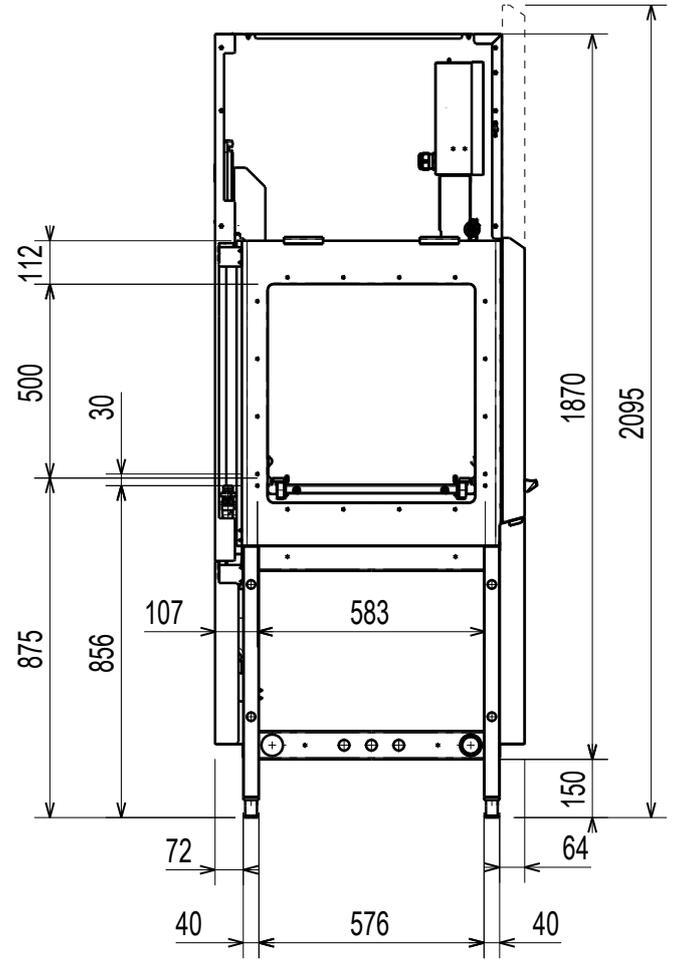
# Prewash module 22" for HP dishwasher



Installation diagram



Prewash module 35" for HP dishwasher



D = Drain outlet  $\varnothing=50\text{mm}$  (external)

## Foreword



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

The following must not be considered a long and exacting list of warnings, but rather a set of instructions suitable for improving machine 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 machine 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 machine'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 machine, regarding its use and maintenance.

The manual must be available to operators and carefully kept in the place where the machine 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 machine 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 machine. During all stages of machine use, always respect the current regulations on safety, work hygiene and environmental protection. It is the user's responsibility to make sure the machine 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;
- The manual must always be kept in an easily accessed place near the machine. Machine operators and maintenance personnel must be able to easily find and consult it at any time.

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## A SAFETY INFORMATION

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### A.1 General information

To ensure safe use of the machine 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 machine 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.
- 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 machine's service life.

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

- 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 damage to health (depending on the model).
- 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 damage to health (depending on the model).
- 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 damage 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.
- 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 machine 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 machine.
- 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 operating water pressure (minimum and maximum) must be between:
  - 1.5 bar [150 kPa] and 6 bar [600 kPa] for models with ESD;
  - 2 bar [200 kPa] and 6 bar [600 kPa] for models with Heat Pump.
- Make sure that there are no visible water leaks during and after the first use of the machine.
- 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  $\nabla$ ) 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.
- Make sure to install an emergency switch at the infeed and outfeed of the rack-type dishwasher. 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 Service

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

## A.9 Disposal of packing

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

## A.10 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

Given below is some information regarding the intended use of this appliance, its testing, and a description of the symbols used (that identifies the type of warning), the definitions of terms used in the manual and useful information for the appliance user.

### 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.

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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 Appliance and manufacturer's identification data

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

ELX	Made in EU	2017
F.Mod. _____	Comm.Model _____	
PNC _____	Ser.Nr. _____	
EL _____ V	_____ Hz	_____ kW
  		
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
IPX5	dust and water protection rating
CE	CE marking
Electrolux Professional SpA Viale Treviso 15 33170 Pordenone Italy	manufacturer

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

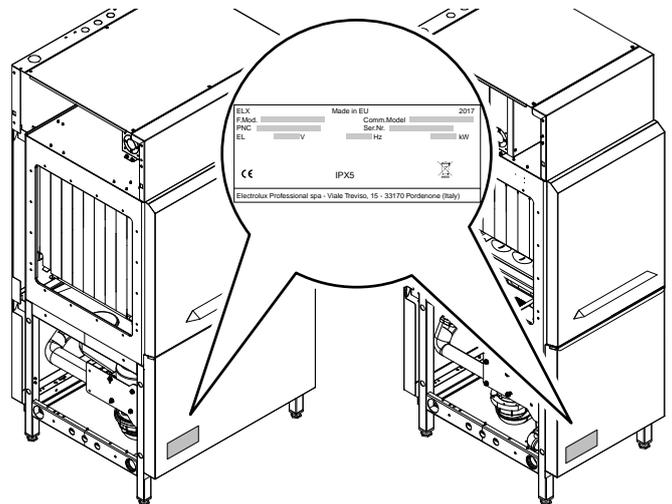


Fig. 1 Data plate position

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

#### 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)
E	M	PW	E	V	
Z	L	PW	E	E	W
N	C	PW	E	E	

	Description	Possible variables
(1)	Brand	E=Electrolux, Z=Zanussi, N=To brand
(2)	Module Length	M=22"; L=35"
(3)	Type of module	Prewash
(4)	Supply	E = Electric
(5)	Functional level	E = Energy Saving Device; V = Heat Pump
(6)	Other functions	W = only for UK & Australia

### B.5 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 machine operation and invalidates the original manufacturer warranty);
- operations carried out by non-specialised personnel;
- unauthorized modifications or operations;
- missing, lack or inadequate maintenance;
- improper machine use;
- unforeseeable extraordinary events;
- use of the machine 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.

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.

The Manufacturer declines any liability for inaccuracies contained in the manual, if due to printing or translation errors.

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.6 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 company.

## B.7 Keeping the manual

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

## B.8 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

Model		PW 22"	PW 35"
Power supply		Electric	Electric
Power supply voltage	V	380 - 415 3N	380 - 415 3N
Frequency	Hz	50	50
Max. power. absorbed	kW	7.37	15.5
Supply water pressure	bar [kPa]	ESD: 1.5 bar [150 kPa]...6 bar [600 kPa]	ESD: 1.5 bar [150 kPa]...6 bar [600 kPa]
		Heat Pump: 2 bar [200 kPa]...6 bar [600 kPa]	Heat Pump: 2 bar [200 kPa]...6 bar [600 kPa]
Cold water supply temp.	°C	5-30 [15] <sup>1</sup>	5-30 [15] <sup>1</sup>
Tank capacity	l	35	70
Temperature (min - max)	°C	10 - 40	10 - 40
Pump power	kW	0.37	1.5
Tank heating element <sup>2</sup>	kW	7	14
Max. current absorbed	A	10.3	22
Concentration of chlorides in water	ppm	<20	
Supply water hardness	°f°d/°e	0-14/0-8/0-10	0-14/0-8/0-10
Net weight	kg	ESD: 110	ESD: 163
		HP: 113	HP: 167
Protection rating		IPX5	IPX5

1. Cold water temperature recommended for machine with heat pump.

2. Only in version with sanitization cycle.

## 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).

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## D TRANSPORT, HANDLING AND STORAGE

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### WARNING

Refer to “*Safety Information*”.

#### D.1 Introduction

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



#### CAUTION

The machine 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.

#### D.2 Handling

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

##### D.2.1 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 machine, 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.2.2 Shifting

###### The operator must:

- have a general view of the path to be followed;

- stop the manoeuvre in case of hazardous situations.

##### D.2.3 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.3 Storage

The machine 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 machine is stored must have a flat support surface to avoid deforming the machine or damage to the support feet.



#### CAUTION

Do not make modifications to the parts supplied with the appliance. Any missing or faulty parts must be replaced with original parts.

#### D.4 Unpacking



#### IMPORTANT

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

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.

#### Note

- 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.

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## E INSTALLATION AND ASSEMBLY

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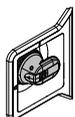
### WARNING

Refer to “*Safety Information*”.

#### E.1 Introduction



### WARNING



Make sure that the switch disconnector 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*);
- 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 the technical data table and in the installation diagram;
- the addition of the prewash module changes the arrangement of the emergency stops. This arrangement must be re-examined (E.17 *Positioning of emergency switches*).

### E.3 Installation of prewash module on the rack-type dishwasher

The Manufacturer provides for the possibility of connecting the prewash module only to rack-type dishwashers included in the Electrolux Professional SpA catalogue.

### E.4 Characteristics of the place of machine installation

This additional module is designed for installation in professional and not domestic-type kitchens (for installation of the entire machine, refer to the rack-type dishwasher instruction manual). For this module, water collection traps/metal grates must be arranged in the floor at the machine discharges (refer to "Installation diagram"), possibly replaceable with a single water trap sized for a flow rate of at least 3 l/s.

### E.5 Machine space limits

- A suitable space must be left around the machine (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.



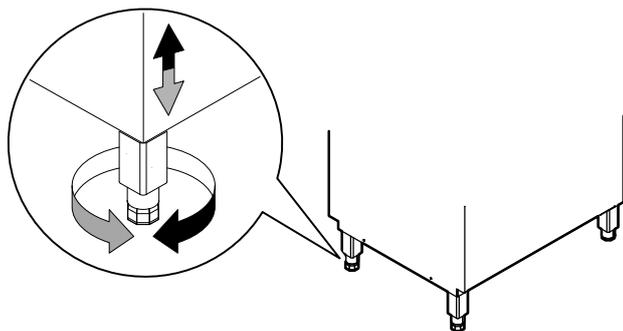
#### CAUTION

- Install the machine at a distance of not less than 50 mm from the wall so as not to affect correct ventilation of internal components.
- For the machine with heat pump, make sure that the distance from the ceiling is not less than 300 mm.

### E.6 Positioning

Unless otherwise agreed, the prewash module is supplied in a single unit. The prewash module must be taken to the place of installation and the packing base removed only when being installed.

- Position the prewash module in the required place.
- Adjust the prewash module by turning the special adjustable feet.

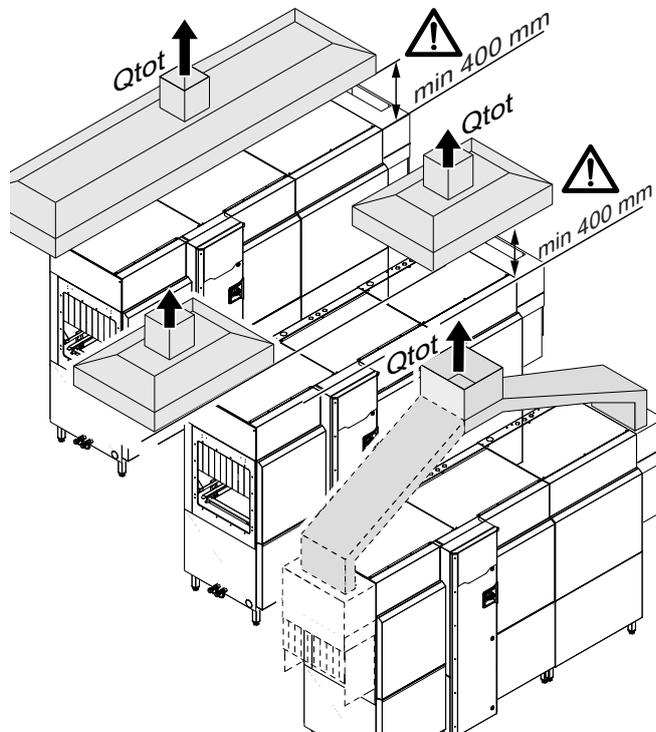


- Fix the prewash module to the existing dishwasher. The installer must carefully follow the installation instructions.
- Carefully remove the protective film from the outer panels without tearing it, to avoid leaving traces of glue.

### E.7 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)
...MR15....E	1600 m <sup>3</sup> /h
...MR20....E	1816 m <sup>3</sup> /h
...MR25....E	1960 m <sup>3</sup> /h
...MR30....E	2025 m <sup>3</sup> /h

### E.8 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:

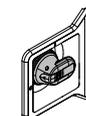
 <b>PE</b>	<b>Polyethylene</b> <ul style="list-style-type: none"> <li>• Outer wrapping</li> <li>• Instructions bag</li> </ul>
 <b>PP</b>	<b>Polypropylene</b> <ul style="list-style-type: none"> <li>• Straps</li> </ul>
 <b>PS</b>	<b>Polystyrene foam</b> <ul style="list-style-type: none"> <li>• Corner protectors</li> </ul>

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

### E.9 Mechanical connections



#### WARNING



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



## WARNING

Before starting the installation of the prewash module, make sure that the machine is cold.



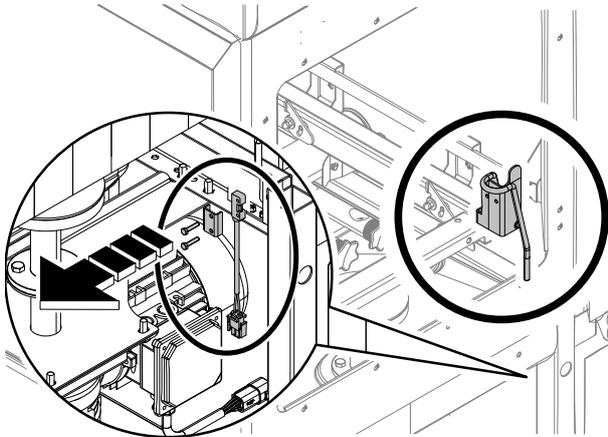
## CAUTION

Refer to "A.3 Personal protection equipment" for suitable personal protection equipment. Use gloves and other personal protection equipment according to the risks present (e.g. glasses in case of risk of flying splinters during drilling).

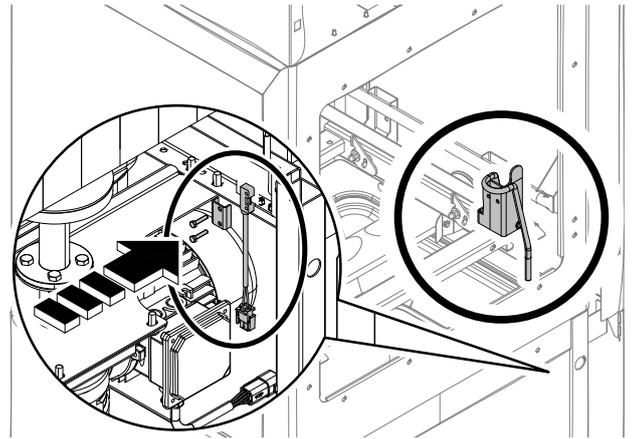
### E.9.1 Auto-start lever positioning change

Before joining a prewash module to the machine or to another prewash module, you must move the auto-start lever and its sensor to the beginning of the equipment.

1. Remove the auto-start lever from the wash module or first prewash module.
2. Remove the lower side panel and uninstall the sensor of the auto-start lever.

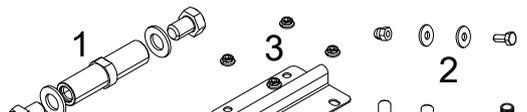
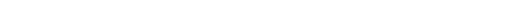


3. Refit the lever and its sensor into the prewash module or in the second prewash module.

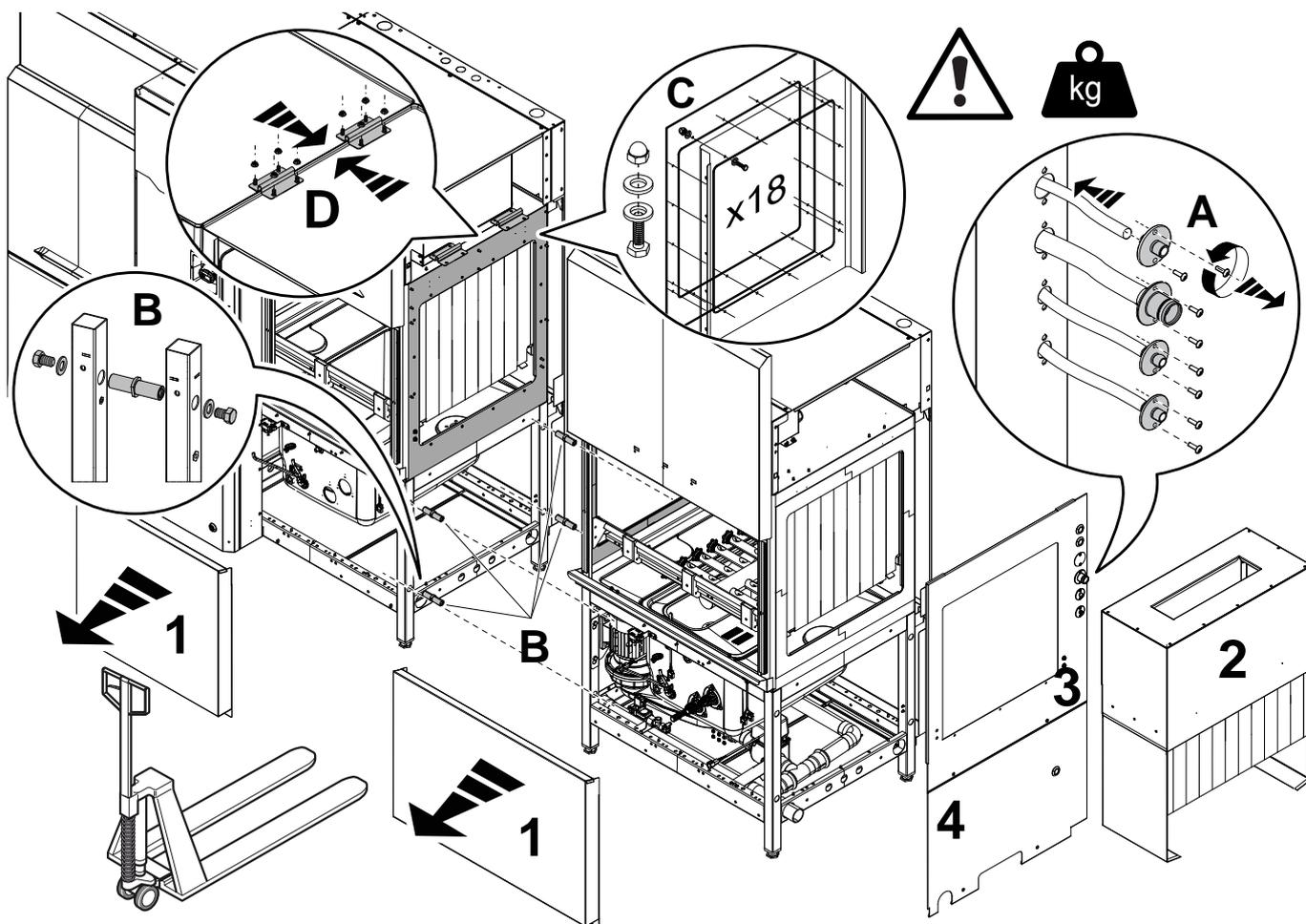


### E.9.2 Prewash module for dishwasher with the energy saving device (ESD)

#### Joining kit list

	<b>1</b> 4 special spacer, 4 screws (M14x20mm), 4 washers (ø=15x28mm)
	<b>2</b> 18 screws (M6x14mm), 36 washers (ø=6x18mm), 18 cap nuts (ø=6mm)
	<b>3</b> 2 connection bracket and 8 flange nuts (ø=5mm)
	<b>4</b> heating element and its O-ring <ul style="list-style-type: none"> <li>• PW 22" = 5 kW – 230 V</li> <li>• PW 35" = 7 kW – 230 V</li> </ul>
	<b>5</b> rinse arms with 4 nozzles <sup>1</sup>
	<b>6</b> transparent hose for descaling agent
	<b>7</b> transparent hose for solid detergent (internal diameter ø=20 mm)
	<b>8</b> grey hose for liquid detergent
	<b>9</b> blue hose for rinse aid

1. Only for 35" prewash module.



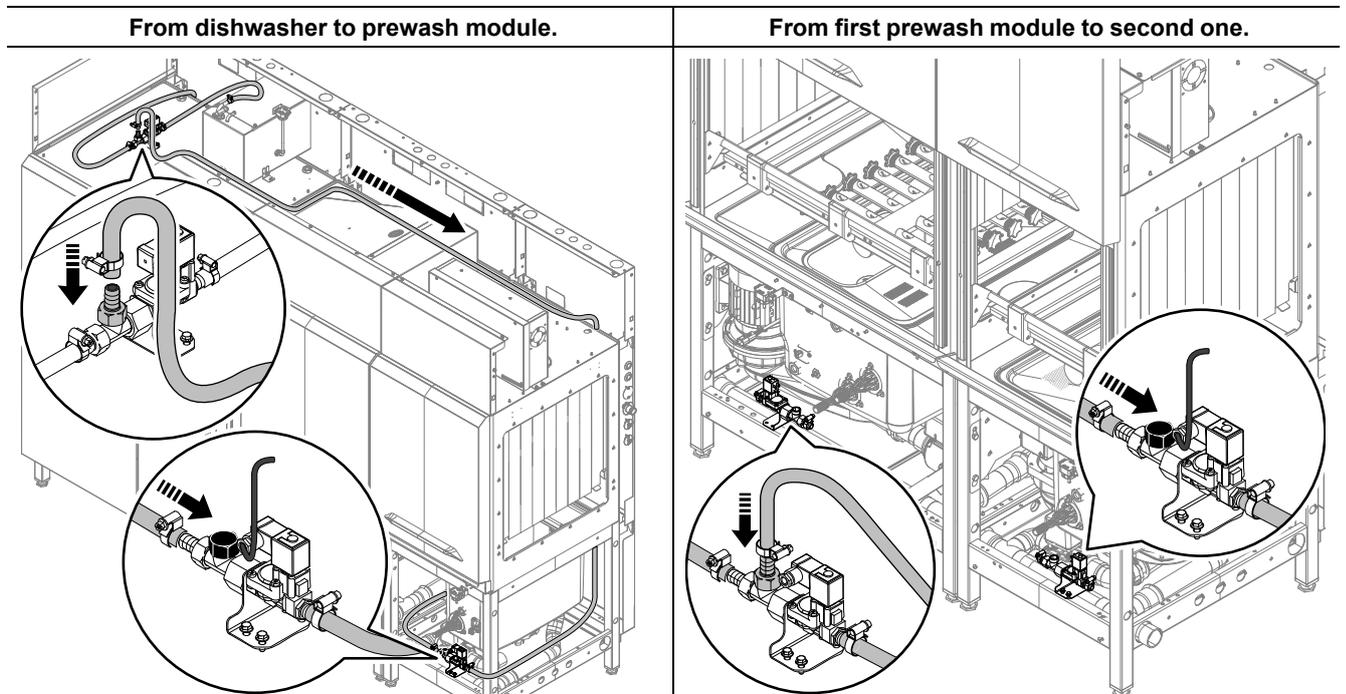
1. Close the water inlet taps (cold-hot).
2. Remove the front panels "1".
3. Remove the vent for the steam "2".
4. Remove all chemical injectors and their hoses from the side panel "3" (see detail "A").
5. Remove the side panels "3-4" from the machine.
6. Change the position of the auto-start lever (see E.9.1 *Auto-start lever positioning change*).
7. Place the prewash module near the machine and join it with the special spacers with the respective screws and washers (see detail "B"). Join also the drain hose of the module with the machine one.



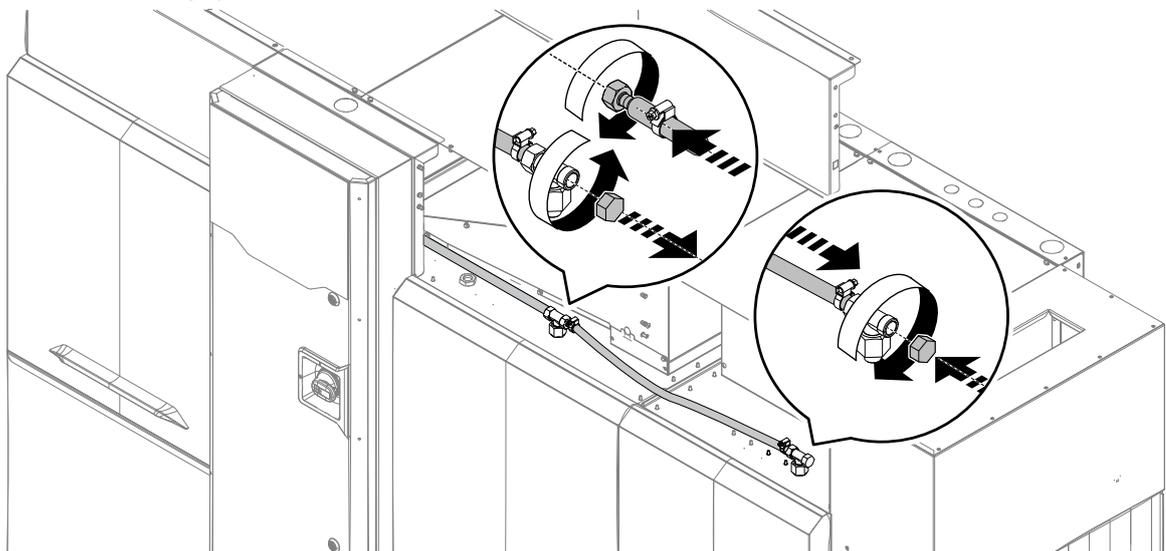
**IMPORTANT**

Make sure the modules are correctly aligned. If necessary use a pallet trucks to make easy this operation. To compensate for possible misalignment between prewash module and machine, use the grey gasket provided with the kit.

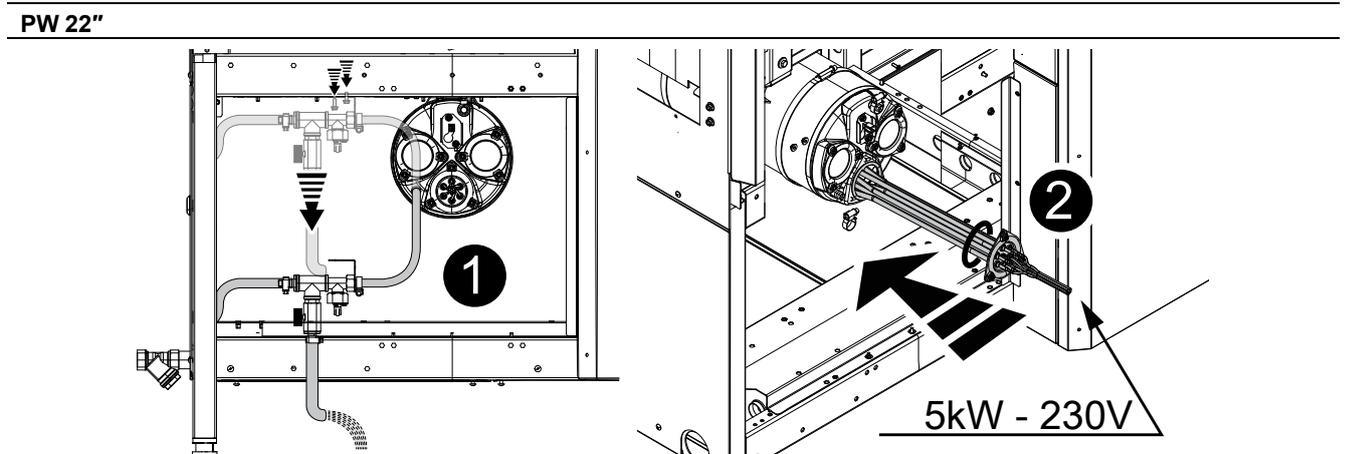
8. Join the openings of the prewash module and the machine with the bolts, washer and nuts (see detail "C").
9. Join the roofs of the prewash module and the machine, fitting the connection bracket on the  $\varnothing=5$  mm stud bolts. Firmly secure the brackets with  $\varnothing=5$  mm flange nuts (see detail "D").
10. Replace the hoses of the chemical injectors with the proper ones provided with the kit.
11. Refit all chemical injector into side panel "3"
12. Refit the side panels "3-4".
13. Refit the vent for the steam "2".
14. Connect the hydraulic circuit of the dishwasher to the prewash module.

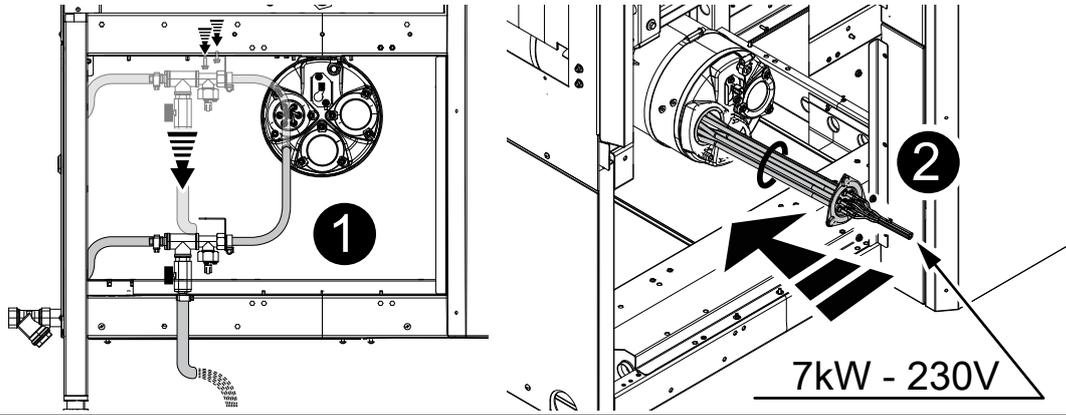


15. Connect the door cleaning system of the prewash module. Do the same to connect the second prewash.



16. Replace the default heating element of the machine boiler with the new one provided with the kit.





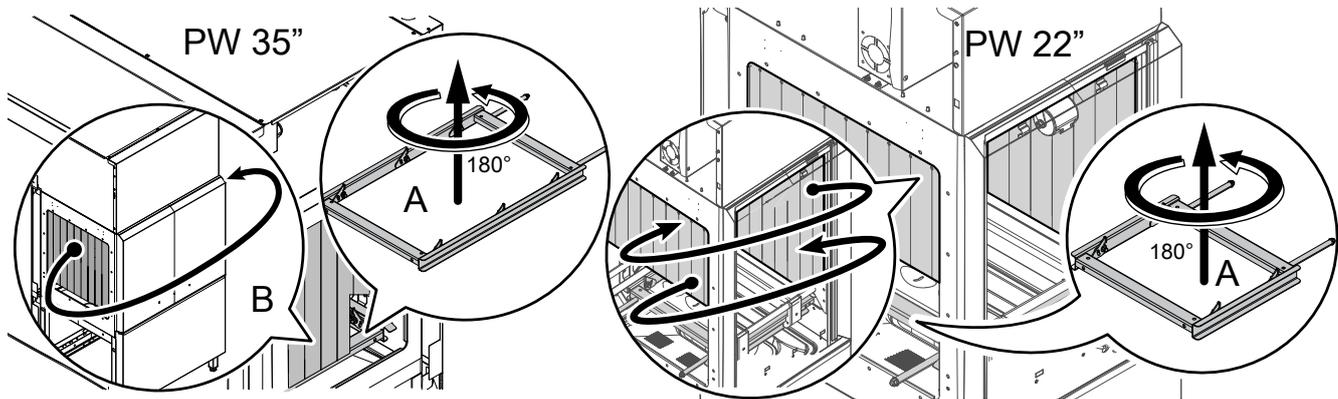
**!** **IMPORTANT**  
Make sure to drain the water of the boiler.

- 17. Refit the front panels "1".
- 18. Open the water inlet taps (cold-hot).

**⚠** **CAUTION**  
**Only for prewash module 35"**  
Make sure to replace the default rinse arms of the machine with the new ones provided with the kit.

To install the prewash module in a left to right machine, it is necessary reverse the position of the:

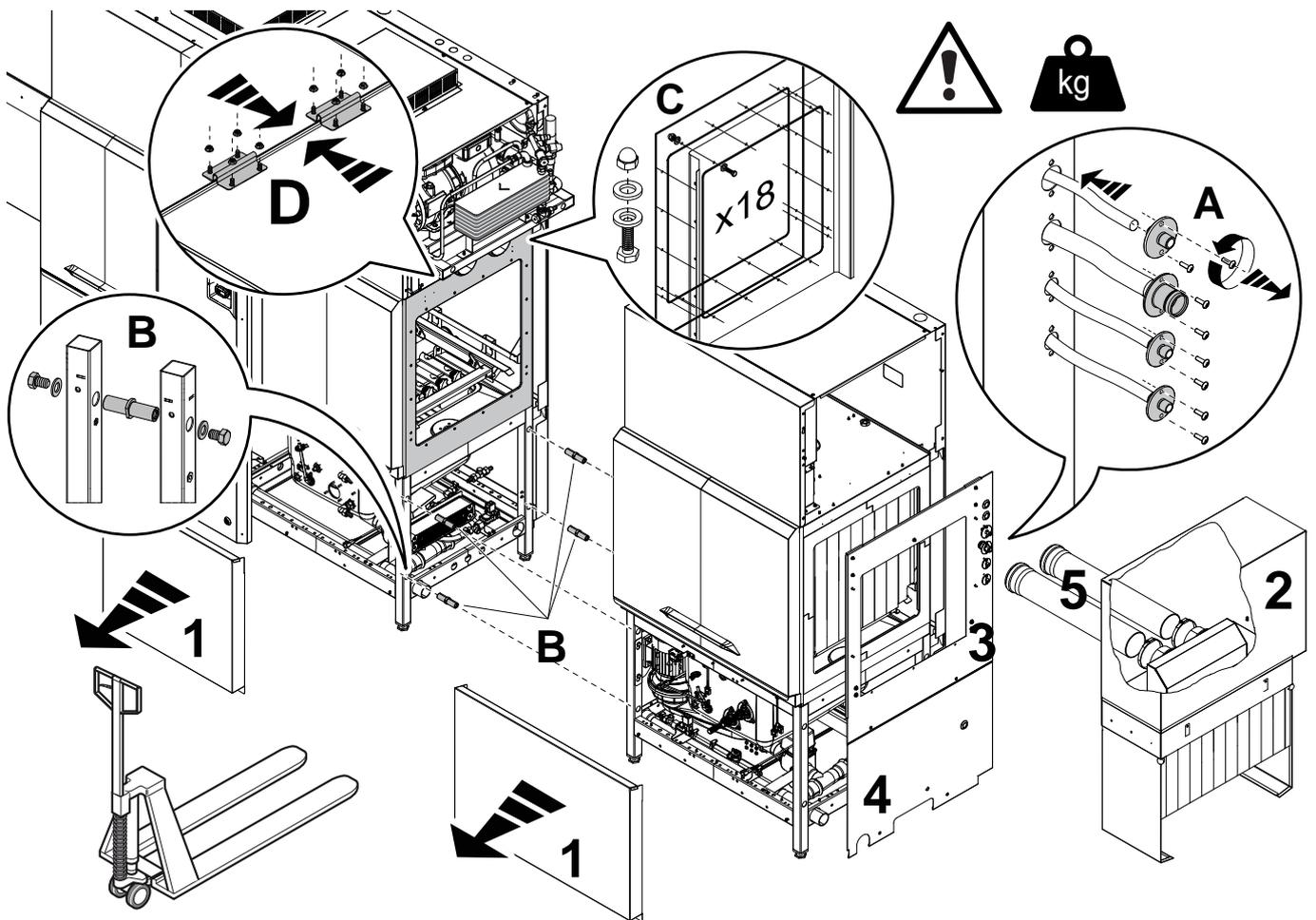
- slide for baskets (see detail A) and the curtain (see detail B).



**E.9.3 Prewash module for dishwasher with heat pump (HP)**

**Joining kit list**

	<p><b>1</b> 4 special spacer, 4 screws (M14x20mm), 4 washers (ø=15x28mm)</p>
	<p><b>2</b> 18 screws (M6x14mm), 36 washers (ø=6x18mm), 18 cap nuts (ø=6mm)</p>
	<p><b>3</b> 2 connection bracket and 8 flange nuts (ø=5mm)</p>
	<p><b>4</b> heating element and its O-ring</p> <ul style="list-style-type: none"> <li>• PW 22" = 5 kW – 230 V</li> <li>• PW 35" = 7 kW – 230 V</li> </ul>
	<p><b>5</b> extension hoses for the steam suction</p>
	<p><b>6</b> transparent hose for descaling agent</p>
	<p><b>7</b> transparent hose for solid detergent (internal diameter ø=20 mm)</p>
	<p><b>8</b> grey hose for liquid detergent</p>
	<p><b>9</b> blue hose for rinse aid</p>



1. Close the water inlet taps (cold-hot).
2. Remove the front panels "1".
3. Remove the vent for the steam "2".
4. Remove all chemical injectors and their hoses from the side panel "3" (see detail "A").
5. Remove the side panels "3-4" from the machine.
6. Change the position of the auto-start lever (see E.9.1 *Auto-start lever positioning change*).
7. Place the prewash module near the machine and join it with the special spacers with the respective screws and washers (see detail "B"). Join also the drain hose of the module with the machine one.

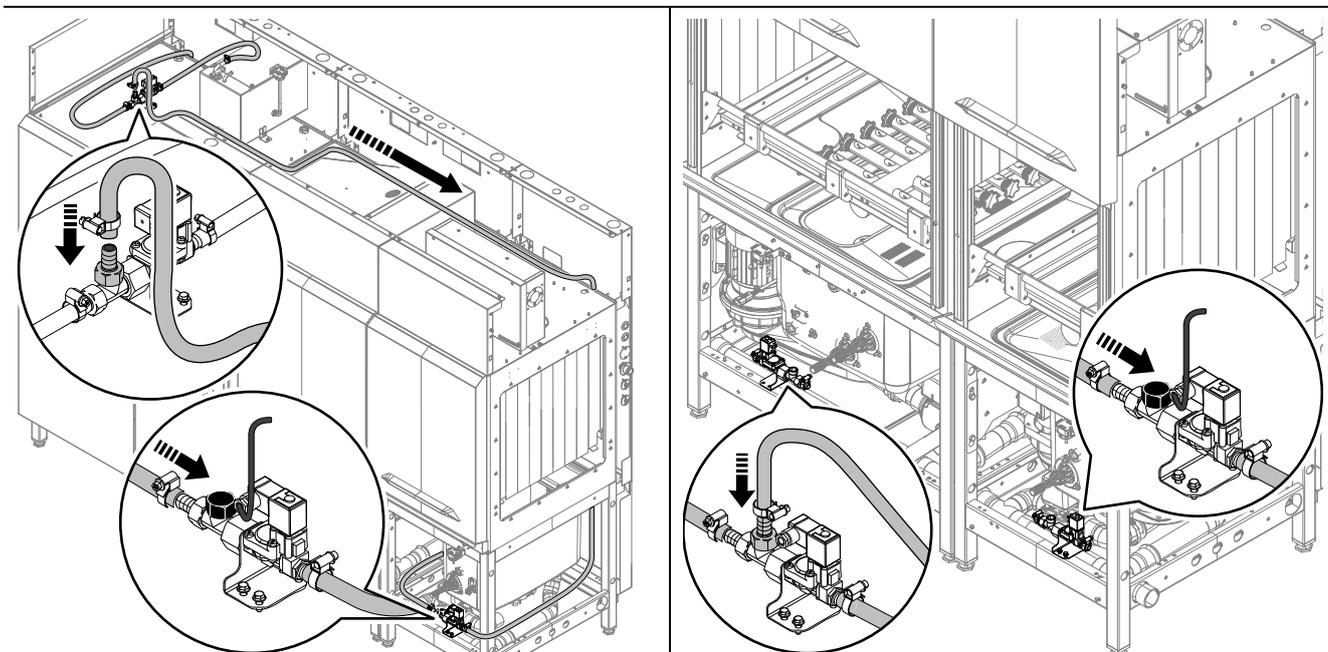


#### IMPORTANT

Make sure the modules are correctly aligned. If necessary use a pallet trucks to make easy this operation.

To compensate for possible misalignment between prewash module and machine, use the grey gasket provided with the kit.

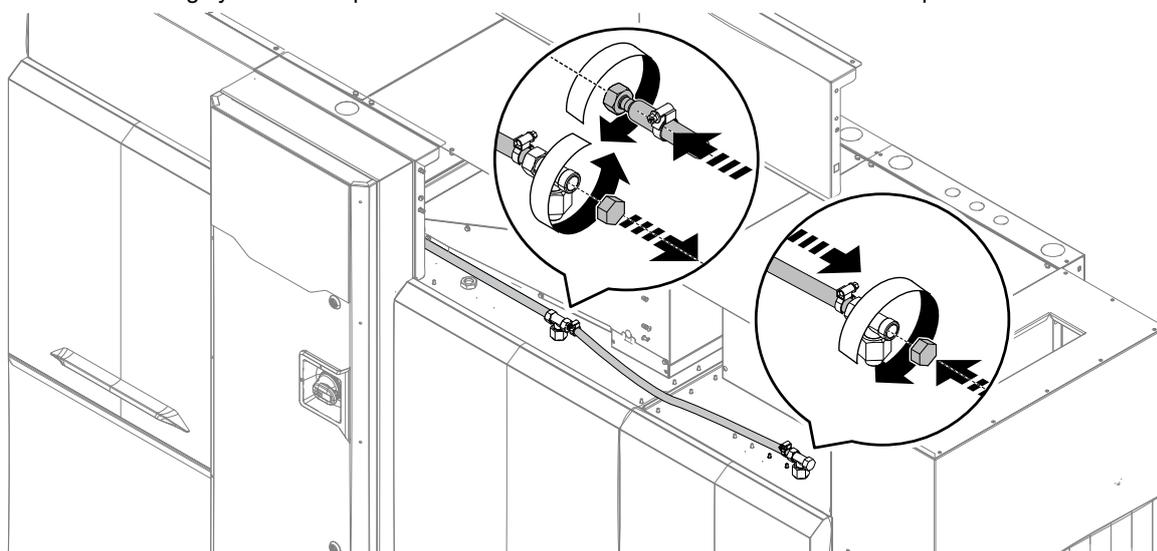
8. Join the openings of the prewash module and the machine with the bolts, washer and nuts (see detail "C").
9. Join the roofs of the prewash module and the machine, fitting the connection bracket on the  $\varnothing=5$  mm stud bolts. Firmly secure the brackets with  $\varnothing=5$  mm flange nuts (see detail "D").
10. Replace the hoses of the chemical injectors with the proper ones provided with the kit.
11. Refit all chemical injector into side panel "3"
12. Refit the side panels "3-4".
13. Install the extension hoses for the steam suction "5" into the vent. Make sure the hoses are fitted in place and close them firmly with their clamps.
14. Refit the vent for the steam "2". Make sure the hoses are correctly fitted into the heat pump body.
15. Connect the hydraulic circuit of the dishwasher to the prewash module.



From dishwasher to prewash module.

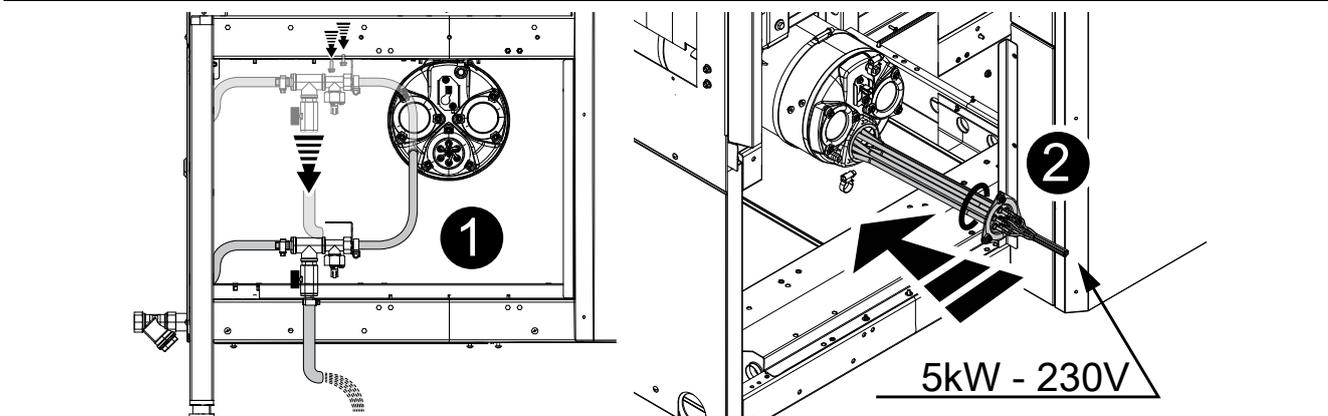
From first prewash module to second one.

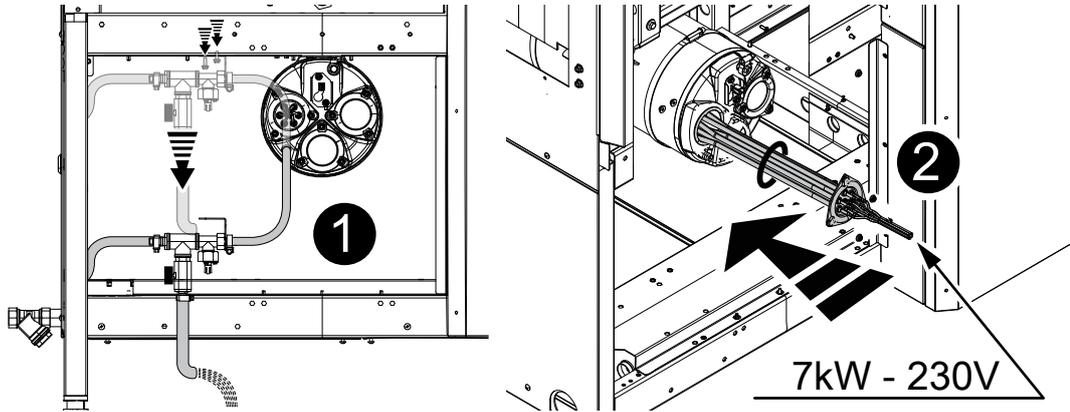
16. Connect the door cleaning system of the prewash module. Do the same to connect the second prewash.



17. Replace the default heating element of the machine boiler with the new one provided with the kit.

**PW 22"**





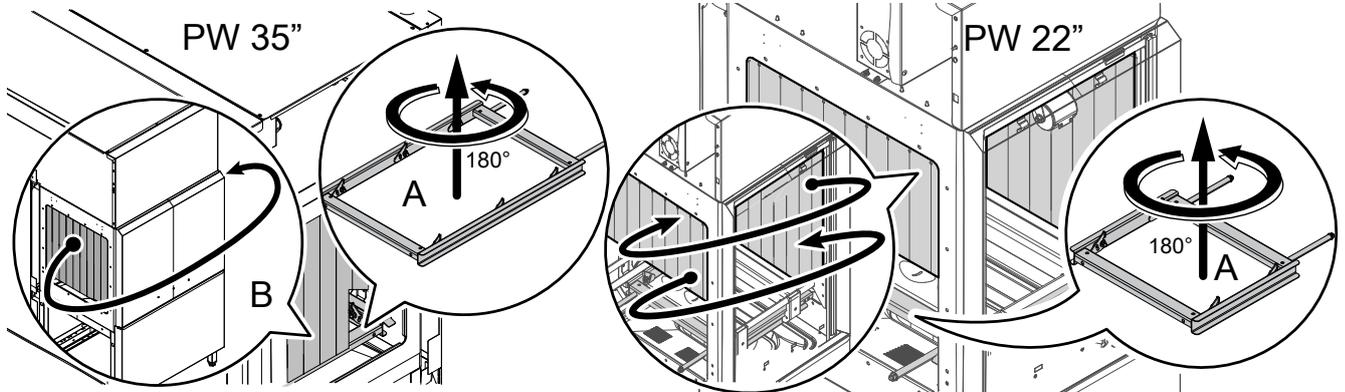
**IMPORTANT**

Make sure to drain the water of the boiler.

- 18. Refit the front panels "1".
- 19. Open the water inlet taps (cold-hot).

To install the prewash module in a left to right machine, it is necessary reverse the position of the:

- slide for baskets (see detail A) and the curtain (see detail B).



**E.10 Electrical connection**



**WARNING**

Refer to "Safety Information".

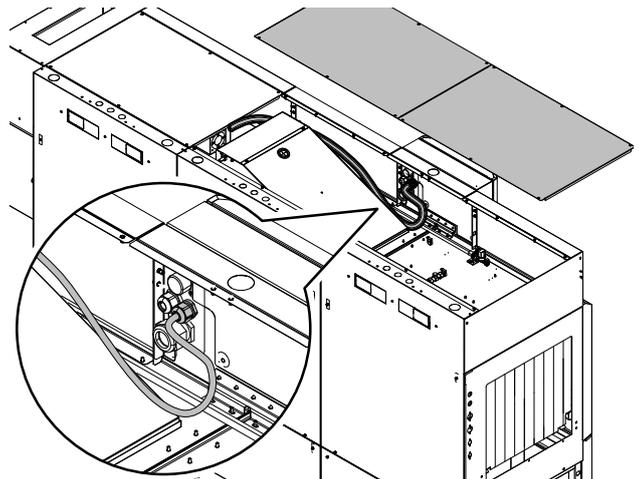
Make sure the machine power supply voltage specified on the data plate matches the mains voltage B.3 *Appliance and manufacturer's identification data*.

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.

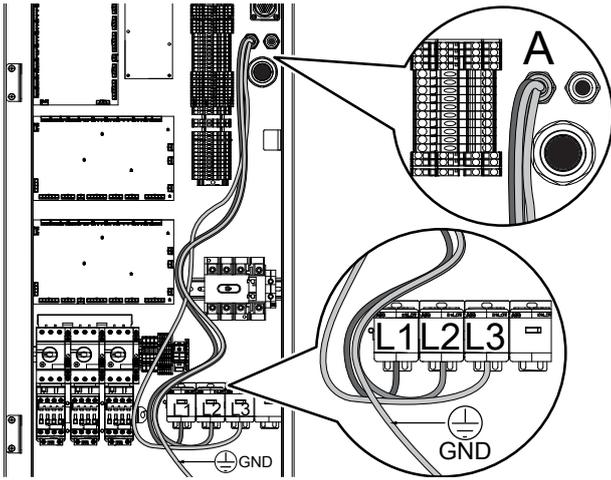
**Connect one prewash module**

- Open the door of the dishwasher electric box.
- If necessary remove the top panels of the dishwasher to make easier the electrical operations.

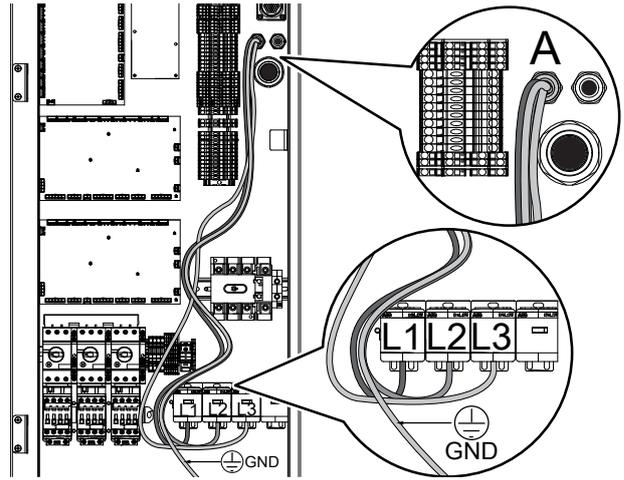
- Take the coil of wiring cables located in the top part of the prewash module and pass it along the top of the dishwasher to the dishwasher electrical box.



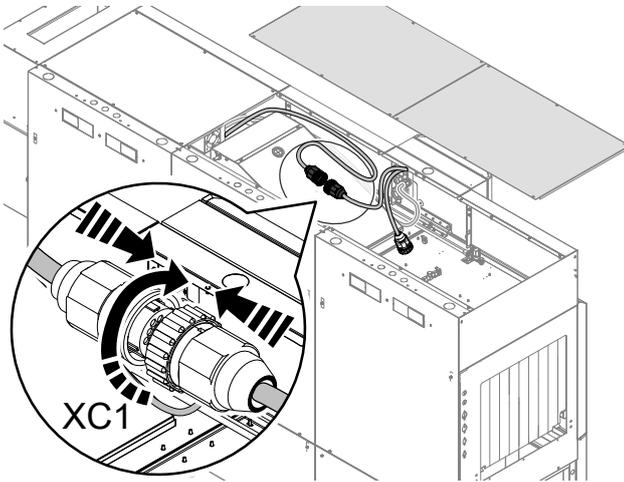
- Pass the wiring cables through the cable gland "A" and connect the power cables "L1", "L2" and "L3" to the terminal board as shown in the picture. Insert the yellow/green ground cable together with those already present.



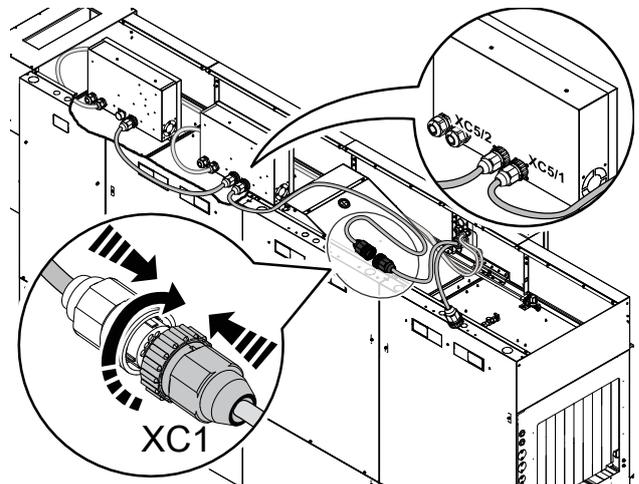
- Pass the wiring cables through the cable gland "A" and connect the power cables "L1", "L2" and "L3" to the terminal board as shown in the picture. Insert the yellow/green ground cable together with those already present.



- Take the coil of wiring cables for signal connection of the prewash module and pass it along the top of the dishwasher.
- Join the cable connectors. Make sure to have connect them, properly.

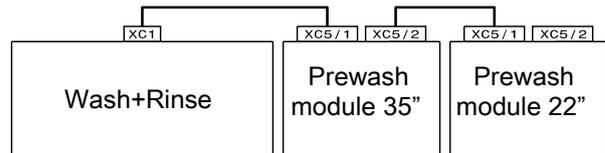
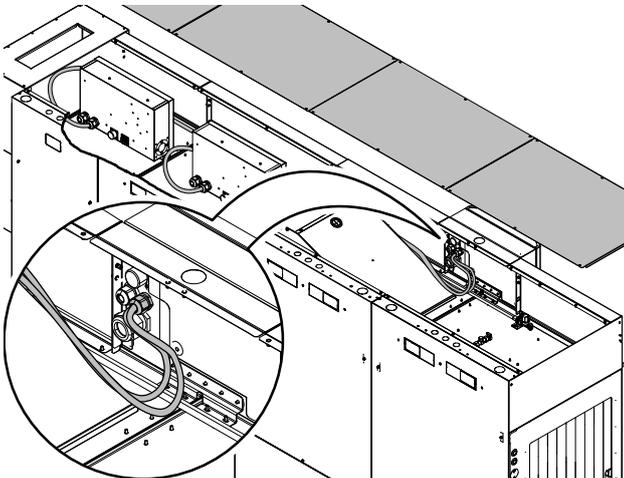


- Take the coil of wiring cables for signal connection of the prewash modules and pass them along the top of the dishwasher.
- Join the cable connectors. Make sure to have connect them, properly.



### Connect two prewash modules

- Open the door of the dishwasher electric box.
- If necessary remove the top panels of the dishwasher and prewash modules to make easier the electrical operations.
- Take the coils of wiring cables located in the top part of the prewash modules and pass them along the top of the dishwasher and prewash modules to the dishwasher electrical box.



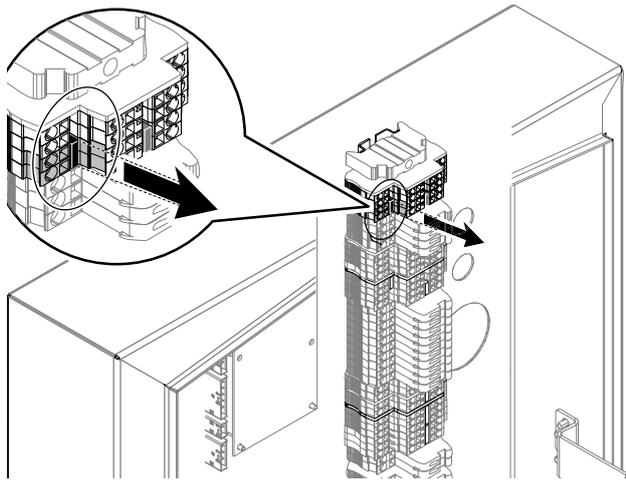
**NOTE!**  
For additional information, refer to the wiring diagram, supplied with the equipment.

### E.10.1 Remove the jumper from terminal board

#### One prewash module added to the dishwasher

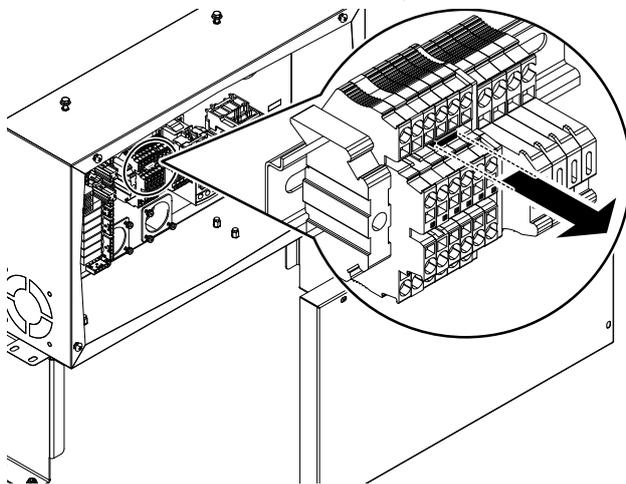
- Before to activate the equipment, it is necessary to remove the left jumper from the dishwasher terminal board "XT1".

- Open the electrical box of the dishwasher, locate the terminal board “XT1” and remove the jumper.



#### Two prewash modules added to the dishwasher

- Before to activate the equipment, it is necessary to remove the jumper from the prewash module closer to the dishwasher.
- Open the electrical box of the prewash module, locate the terminal board “XT5” and remove the jumper.



#### E.11 Parameter configuration update

Configure the machine parameters according to the service manual. Check if all the parameters are correct.



#### IMPORTANT

Only Electrolux approved service technician can update the machine parameters after the installation of the prewash module.

#### E.12 Constructional modifications

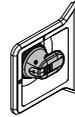
The Manufacturer provides for the possibility of connecting the rack-type dishwasher to rack handling systems included in the Electrolux Professional product catalogue, with the possibility of obtaining various configurations. The “EC” Conformity Declaration provided with the machine also envisages these 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.13 Installation of rack handling systems



#### WARNING



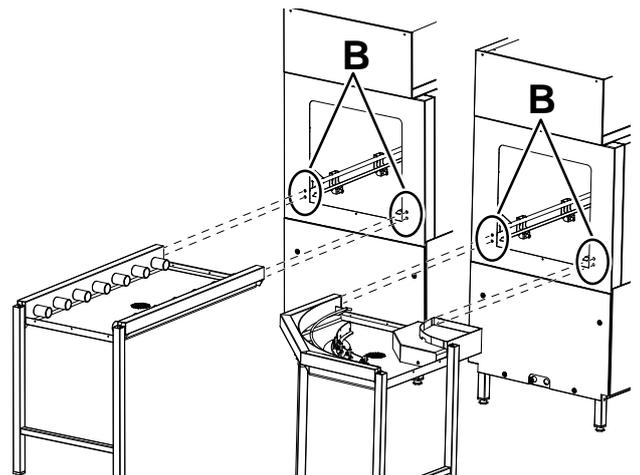
Make sure that the switch disconnector of the machine is locked in the Off position - “O”.

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.

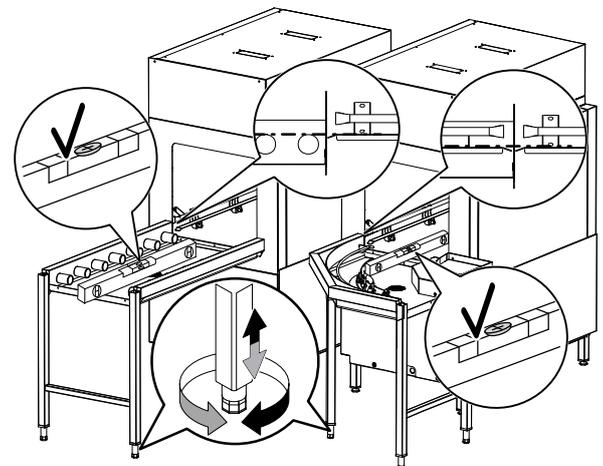
#### E.14 Arrangement for mechanical connection (only for Electrolux rack handling system non motor operated)

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 ( $\varnothing=6$  mm), “B” to connect the rack handling system to the dishwasher.

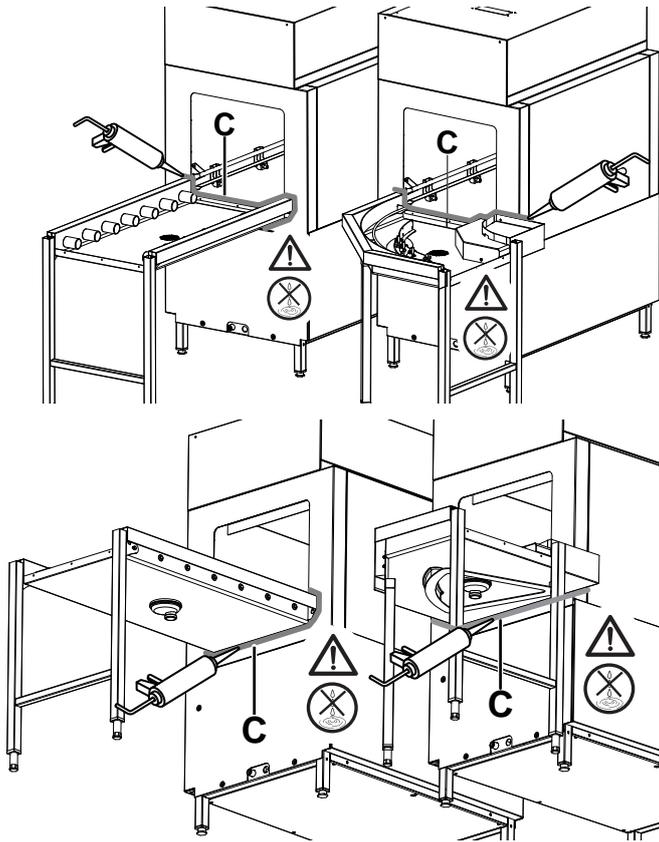


3. Adjust the equipment by turning the special adjustable feet and making sure it is perfectly level.



4. Refer to the instruction provided with the rack handling system to complete the installation.

- Apply silicone<sup>1</sup> "C" between the dishwasher and the rack handling system.



**CAUTION**

Make sure that there are not any water leakages.

**E.15 Arrangement for electrical connection (only for Electrolux 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 rack handling system.



**CAUTION**

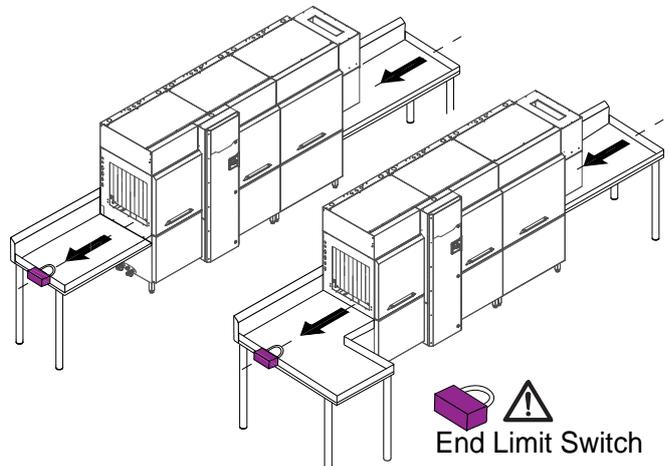
The electrical power lines of the rack handling system are protected against short circuits as shown in the wiring diagram.

**E.16 Installation of the end limit switch**

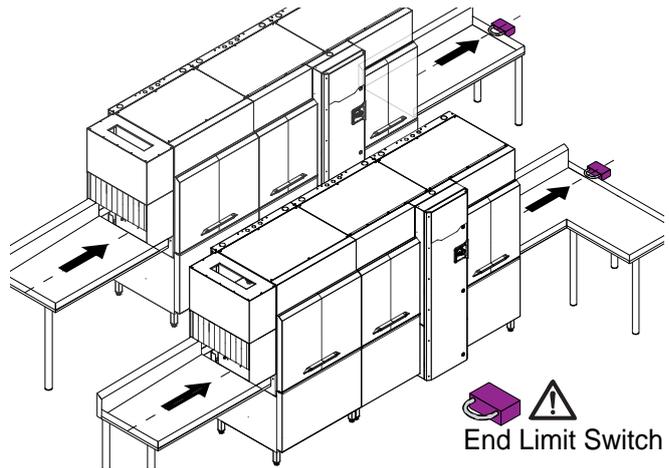


**IMPORTANT**

Install only Electrolux End Limit Switch.



End Limit Switch



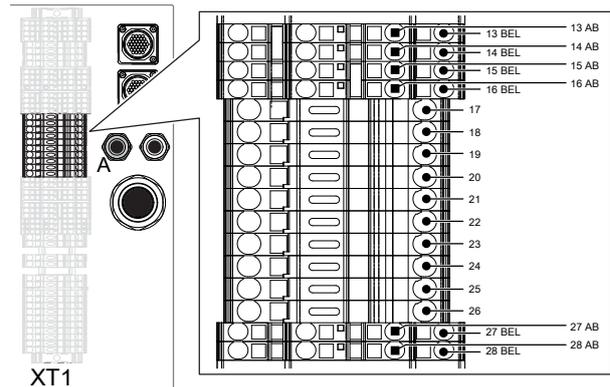
End Limit Switch

**E.16.1 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 hole "A".
- connect the end limit switch to the XT1-27BEL and XT1-27AB terminal blocks;



**CAUTION**

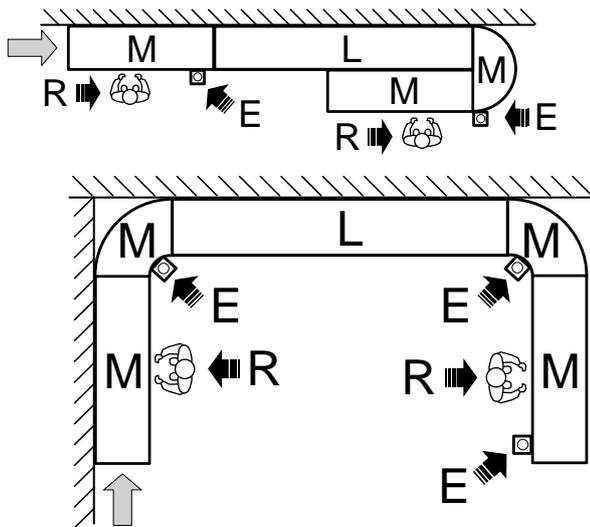
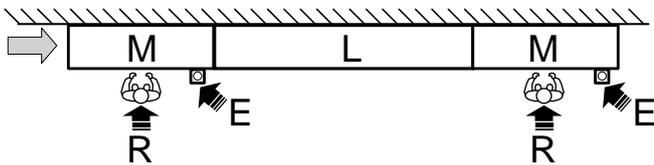
Make sure to install the end limit switch properly.

**E.17 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".

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



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

### E.17.1 Electrical connection

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

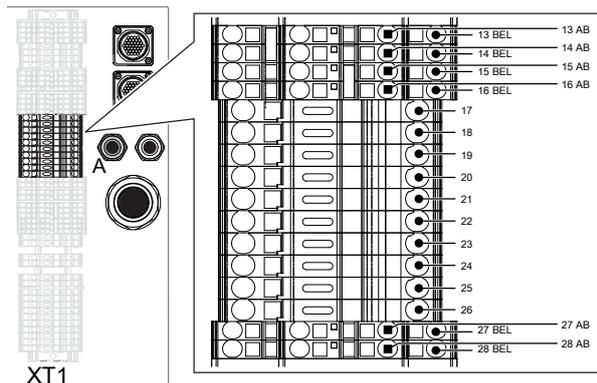
1. open the door electrical box;
2. pass the cables for connection through the hole "A";
3. connect the emergency switches to:

#### Emergency switch IN

- XT1-14BEL and XT1-14AB terminal blocks

#### Emergency Switch OUT

- XT1-13BEL and XT1-13AB terminal blocks



### E.18 Emergency stop reinstatement

When an emergency switch is operated, restart the machine only after making sure that:

- the cause requiring operation of the emergency switch has been eliminated;
- restarting machine operation does not involve any hazard.

If the EMERGENCY SWITCH is operated during machine operation, the entire machine is deactivated.

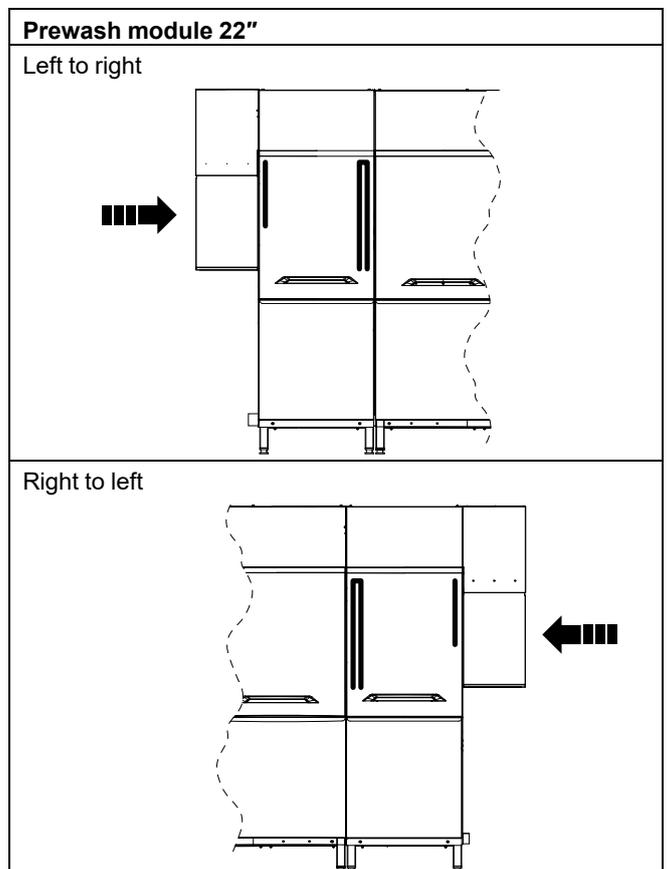
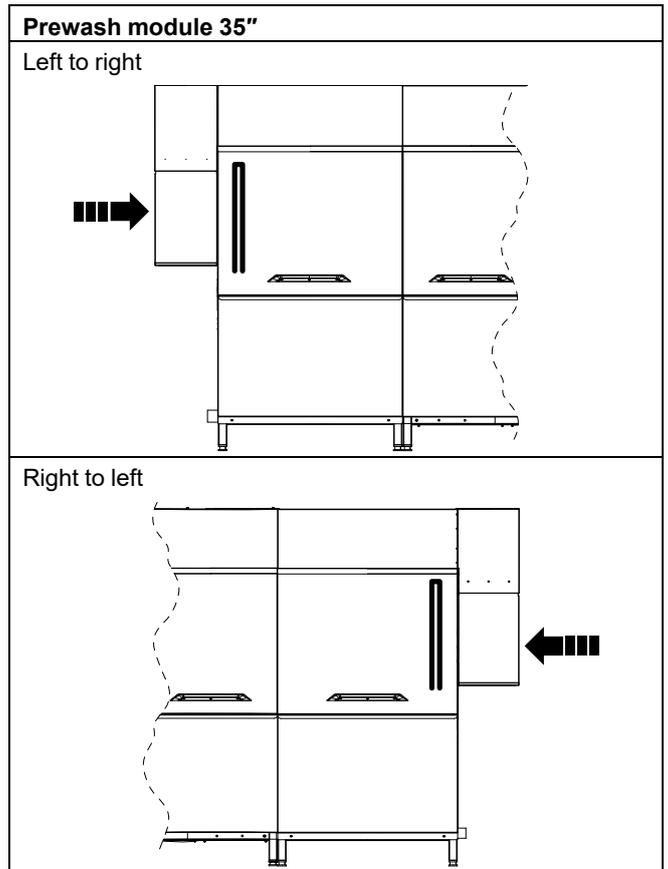
To reinstate machine operation, proceed as follows:

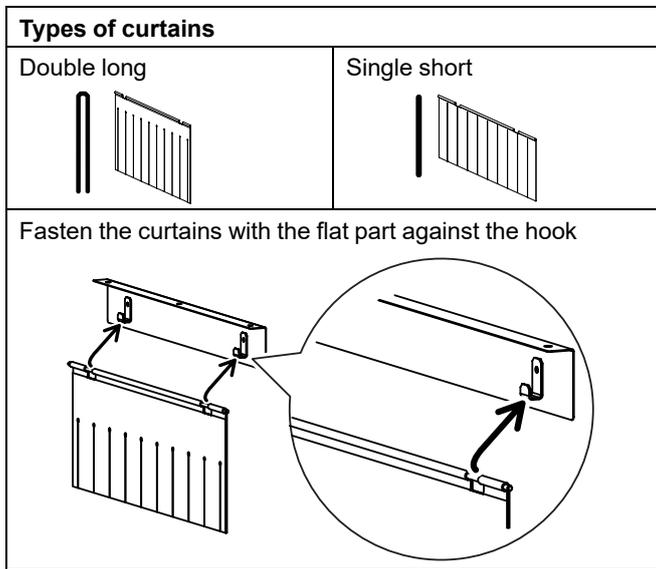
- release the previously operated red emergency button, turning or pulling it in order to disconnect its interlock;

- restart the machine according to what is described in paragraph "Daily activation".

### E.19 Fitting curtains

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





## F COMMISSIONING

### F.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.

### F.2 Electrical and plumbing connection

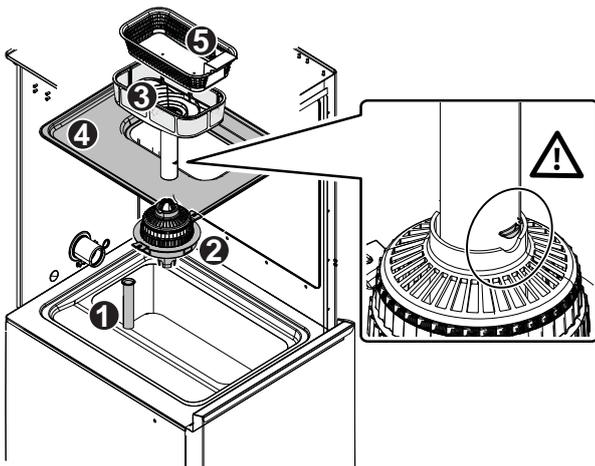
Before starting the machine, check:

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;
3. correct connection of the water supply and drain pipes;
4. guards, safety devices and emergency switches are in place and properly installed.

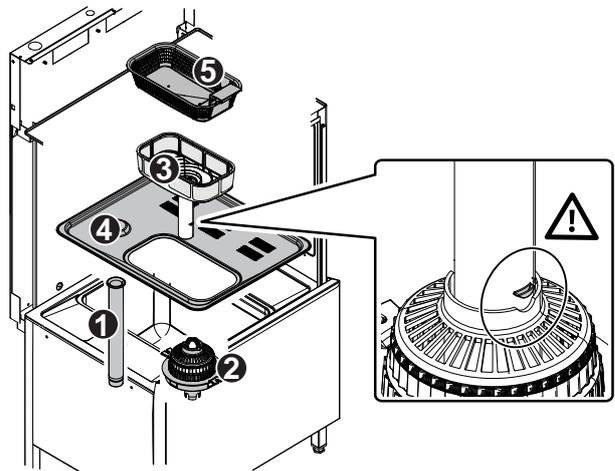
### F.3 Positioning and fitting of the prewash tank components

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

1. prewash 22" module, if present;



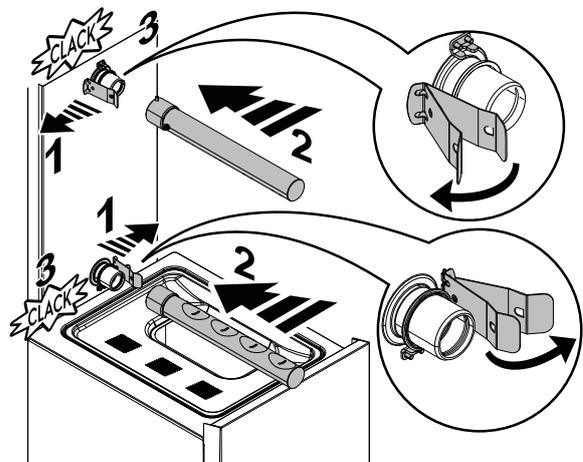
2. prewash 35" module, if present;



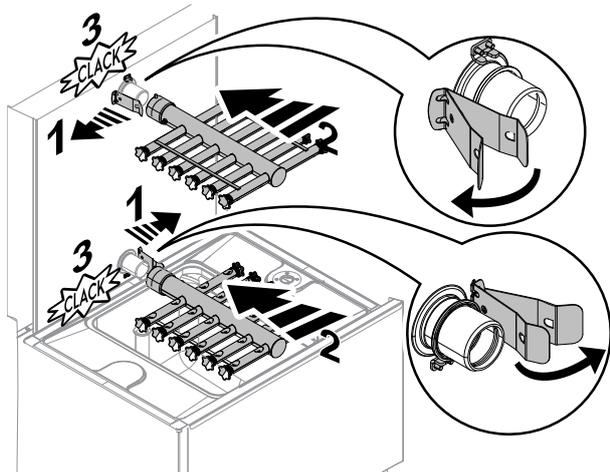
### F.4 Positioning and fitting of the prewash arms

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

1. prewash 22" module (if present);



2. the arms of prewash and wash 35" module;



### F.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.19 Fitting curtains".

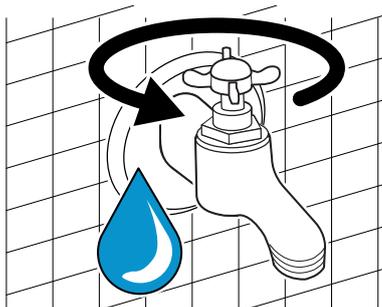


#### IMPORTANT

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

### F.6 First starting

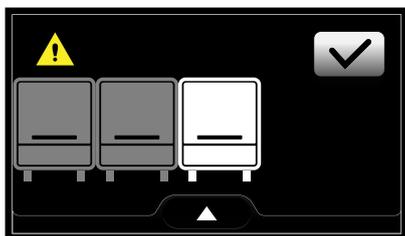
1. Open the water supply taps.



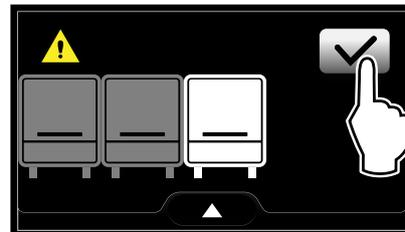
2. Turn the switch disconnector, placed on the door of the electric cabinet, from position "O" to "I" to power the machine.

3. The touch screen switches on and the machine recognizes that one or two dryer modules have been added.

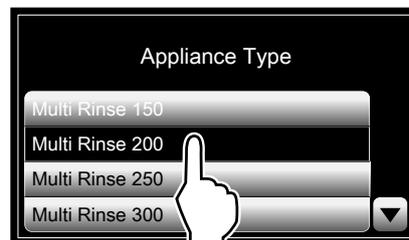
The display blinks alternatively every second showing the icon of the new module.



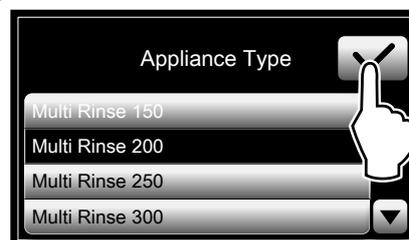
4. Confirm the presence of the new module.



5. The display shows all the available options to select the right type of the new updated equipment.

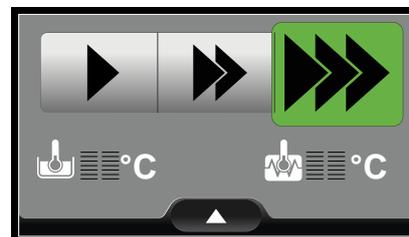


6. Confirm your selection.



7. Automatically the dishwasher upload all new additional parameters. All the equipment restarts again to make all the updating fixed.

8. When the display shows the ready status, the dishwasher is ready to work.



## G NORMAL USE

### G.1 For additional information, refer to user manual, supplied with the appliance

- Safety Information
- General Safety Rules
- Normal Use
- Product Description
- Start Up
- Operation
- Daily Cleaning

- Maintenance
- Troubleshooting
- Alarms and Warnings



**NOTE!**

If the Installation and User manual is not available, you can find it 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](http://www.electroluxprofessional.com)”.



CE

Electrolux Professional SPA  
Viale Treviso 15  
33170 Pordenone  
[www.electroluxprofessional.com](http://www.electroluxprofessional.com)