
UNOX
CASA
INSTALLATION
MODEL 1
MODEL 1S

Dear Customer,

UNOX Model 1 and Model 1S are two professional ovens that offer fast and reliable baking.

Designed to capture the attention of those who seek excellence in the kitchen as well as in life.

This manual contains all the information you need to use this appliance at its best.
If you do not fully understand any of the contents, please contact UNOX for further information.

IMPORTANT
SAVE THIS MANUAL FOR ELECTRICAL INSPECTOR'S USE



Safety



Pictograms 5

Safety information for installing the appliance 5

Safety information for using the appliance 7

Warnings and advice for installing the appliance safely.

PICTOGRAMS


Read the instruction manual


Danger! Situation presenting immediate danger, or a hazardous situation which could cause injury or death.


Risk of fire!


Risk of electric shock!


Risk of burns


Danger: corrosive substances.


Tips and useful information


Consult another section


Earthing symbol


Equipotential symbol

SAFETY INFORMATION FOR INSTALLING THE APPLIANCE



GENERAL PRECAUTIONS

- Read this manual carefully before installing or maintaining the appliance. Store this manual with care for future reference.
- All installation, assembly and non-routine maintenance must be performed exclusively by qualified technicians that are authorised by UNOX, in compliance with the regulations in force in the user country, and respecting the regulations on systems and work safety.
- Before carrying out any installation or maintenance work, disconnect the appliance from the power supply and the gas mains (only for gas ovens).
- Before installing the appliance, check that the systems are compliant with the installation standards in the specific country and with the specifications indicated on the appliance serial plate.

- To avoid potential electric shock, ensure the appliance is disconnected from the power supply before replacing the Led Bar.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or a similarly qualified person to avoid hazards.
- Interventions, tampering or modifications which have not been expressly approved and which do not comply with the instructions in this manual could cause damage, injury or death.
- Furthermore, interventions, alterations or modifications not expressly authorised that do not comply with the indications in this manual shall invalidate the warranty.
- Installation or maintenance that fails to respect the indications in this manual may cause damage, injury or death.
- When the appliance is being fitted, people not involved with the installation may not pass through or occupy the work space.
- If the appliance is installed on a mobile base or stacked, only use components supplied by UNOX, and follow the assembly instructions provided in the packaging.
- The packaging material is potentially dangerous. It must be kept out of the reach of children and animals, and correctly disposed of in compliance with local regulations.
- The ratings plate provides essential technical information that is of utmost importance for any appliance maintenance or repairs. Do not remove, damage or modify the plate.
- Failure to follow these instructions may cause damage, injury or death; voids the warranty; and relieves UNOX of all liability.
- The parts protected by the manufacturer or one of its agents cannot be altered by the installer.
- This oven cannot be installed in the following categories of ships: commercial ships, ferries and cruises.
- The appliance must not be installed behind a decorative door to avoid overheating.
- The maximum inlet water pressure shall be 0.15-1 MPa / 1.5-10 bar / 21-145 psi.

SAFETY INFORMATION FOR USING THE APPLIANCE

GENERAL PRECAUTIONS

- Failure to comply with the safety regulations, and any use or maintenance other than those indicated in this manual voids the warranty* and relieves the manufacturer of all liability.
- Keep the appliance out of reach of children aged 8 years old and younger, unless they are constantly monitored.
- Children must be supervised to ensure that they do not play with the appliance.
- Parts of the oven that are accessible during use may become hot.
- Ensure children stay away from the oven.
- It is recommended to use the temperature probe provided with the oven.
- 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.
- Routine cleaning and maintenance must be done by the user and NOT by children, especially where not supervised by an adult.
- This appliance can only be used by adults for cooking food in kitchens. Any other use is not compliant with the scope of use and is therefore hazardous.
- If the appliance is not working or if you notice any changes to the structure or operation, disconnect the electricity supply and contact an authorised UNOX customer assistance service. Do not attempt to repair the appliance yourself. For any repairs, please request UNOX original spare parts.
- Failure to observe these regulations may cause damage, injury or death, and also invalidates the warranty.
- To ensure that the appliance is in perfect condition in

terms of use and safety, maintenance and inspections should be performed at least yearly by an authorised support service centre.
- The appliance emits a sound level of below 70 dB.
- The humidity sensing system must be calibrated when the oven is first installed (contact the UNOX Service Centre), and as and when the oven requires it.
- Do not use aggressive abrasive agents or sharp metal scrapers to clean the oven's glass door to prevent scratches and breakage.
- Do not use steam cleaners.
- If the oven is used in ships, it can be installed only in rooms occasionally exposed to the marine environment.
- The oven must always be secured to a wall to prevent it from overturning. If installed on ships, even the base must be permanently secured.
- If the oven is installed inside a cabinet with doors, the doors must kept be open:
  - during oven use
  - after oven use until it has cooled completely (the oven automatically switches to stand-by mode).

  Closing the doors before the oven has completely cooled could reduce the lifespan of the oven's electronic components and damage the cabinet.



RISK OF BURNS AND INJURY!

- Some INTERNAL parts reach extremely high temperatures (over 60°C / 140°F) during cooking and even after you switch off the oven. Pay attention not to touch the heating elements inside the oven.
- Some EXTERNAL parts reach extremely high temperatures (over 60°C / 140°F) during cooking and even after you have switched off the oven. Touch only the control elements or

the handle.
- Wear appropriate protective thermal clothing and take great care when moving containers, accessories and other objects inside the oven cavity.
- Switch off the ovens before you remove any protection device. Once cleaning is complete, reinstall the protection devices in the correct position.
- Cooking can only take place with the door closed, for safety reasons. If the door is opened, the oven stops temporarily and a message appears on the display. To resume cooking, close the door again.
- In order to maintain optimum performance, do NOT open the door during cooking. If it is not possible to avoid opening the door, please do so very slowly and carefully, paying attention to the hot steam coming out of the oven cavity.
- Be extremely careful when removing trays from the oven cavity.
- Extract the core probe from the food before removing the trays from the oven, and place it in the probe holder inside the oven cavity. Before removing the tray, check that the probe cable is not in the way. Handle the probe with care because it is extremely sharp and, after use, can be very hot.
- NEVER put any type of tray, hot or cold container, or other objects on top of the oven, even if it is turned off. DO NOT put highly flammable or heat-sensitive objects (e.g. plastic ornaments, lighters, etc.) near the appliance.
- Leave at least 2 cm / 25/32” of free space around the oven.
- The first time you use the appliance, some of the oils used for manufacturing may evaporate and produce fumes or unpleasant odours. These will gradually disappear as you continue to use the appliance.
- Liquids or other foods should not be reheated in sealed containers, as these may explode.
- To avoid burns, do not use containers filled with liquids or

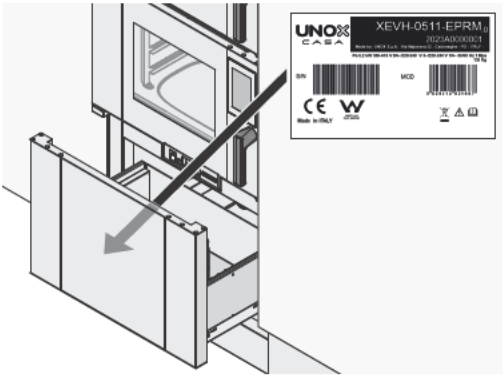
products that liquefy, heating up to higher levels than can be easily observed (IEC 60335-2-42:2002 / AMD1:2008).
- If reheating beverages, these may reach boiling point and cause a delayed eruption. Be careful when handling the container.
- The contents of any baby bottles and any baby food in jars must be mixed or shaken before consumption. Check the temperature to avoid scalding.
- Only use utensils and containers that are appropriate for high temperatures.
- Do not remove or touch the protective fan casing, the fans or the heating elements while the appliance is turned on and until it has completed cooled down.
- The appliance will get hot during use. Avoid touching the heating elements inside the oven to prevent burns.
- Carefully read the product safety data sheet before handling and using the detergent.
- Do not open the oven door during a washing cycle as this could cause injury to eyes, mucous membranes and skin because of contact with the cleaning chemicals used. These chemicals are sprayed by the rotor in the cavity and moved by strong air currents.
- When carrying out maintenance on the oven water circuit, you must use PPE specific for the detergent (see the product safety data sheet). Specifically, gloves and goggles must be used since there could be detergent residue in parts of the circuit that could be pressurised.
- Do not tamper with the oven water circuit in any circumstances because this could cause damage, injury or death. The oven water circuit begins with a 3/4" connector, with a non-return valve built in, and includes all the subsequent piping and accessories.
- If the appliance glass is chipped or damaged, it must be replaced immediately. Please contact an authorised support service centre. Do not use the oven. Risk of exploding glass.



RISK OF ELECTRIC SHOCK!

- Do not open the compartments marked with these symbols. Only qualified personnel authorised by UNOX may access these compartments. Failure to observe this regulation invalidates the warranty* and may cause damage or injury including death.
- Any routine maintenance must be performed:
  - after disconnecting the appliance from the power supply and waiting for the capacitive components to discharge (approx. a few minutes);
  - after waiting for the appliance to cool down fully;
  - only if you are in good mental and physical condition, and are wearing suitable personal protective equipment (e.g. heat-resistant rubber gloves, eye protection, dust mask (optional), etc.).
  - Warning! Electric shock hazard,if the appliance is used without the earth connection.
- Connections to the mains power and the electrical system must comply with the regulations in force in the country where the appliance is installed. All connections must be made by qualified personnel authorised by UNOX. Failure to comply with these regulations may cause damage and injuries, invalidates the guarantee and relieves UNOX of all liability.
- In order to avoid hazards due to the accidental resetting of the thermal cut-out, this appliance must not be powered with an external switching device, such as a timer, or be connected to a circuit that is regularly switched on and off by the utility.
- Any other electrical connection or dimensional modification of the cable other than extensions is not allowed. If needed, replace the cable with one with the same characteristics (type of rubber, cross-section, etc.). All specifi-

cations are listed on the “Technical Specifications” sheet.
- Do not wrap the remaining cable around itself but leave it loose, making sure it does not obstruct the passage to anybody or cause danger. Make sure that it is not crushed or bended and does not come in contact with liquids, sharp objects or hot corrosive substances.
- Before connecting the appliance to the mains electricity, always compare the power supply data with the appliance data as specified on the ratings plate (see position in the figure).



- The wiring diagrams, cable specifications and technical data are indicated on the “Technical specifications” sheet.

SAFETY INFORMATION FOR USING HYPER SMOKER

- This appliance can only be used for smoking food inside UNOX cooking cavities. Any other use is not compliant with the scope of use and is therefore hazardous.
- Do not allow children, persons with physical, sensory, or mental impairment or with poor experience or knowledge use Hyper.Smoker.
- Do not use food containing flammable substances (e.g. food with alcohol).
- Use Hyper.Smoker only inside UNOX ovens.
- Use Hyper.Smoker only with an operating suction system (e.g. a hood).

- Do not load the Hyper.Smoker excessively. If the cover is not correctly closed, the wood inside the container may catch fire, damaging the appliance and even causing serious injury.
- Load the appliance only with hardwood flakes (oak, chestnut, walnut, poplar, acacia, birch, beech), sawdust, wood chips, pellets. Make sure that the wood you use is not chemically treated (e.g. paint residues, fillers, paints, etc.), does not contain oils or resins, and is not mouldy.
- Once smoking is complete, open the door slowly and carefully, waiting for the smoke to escape from the oven cavity.
- Always pay attention and use thermal protective clothing to remove Hyper.Smoker from the cavity's heating element. The latter remains hot for several minutes after oven is switched off.
-  Clean Hyper.Smoker after every use for hygienic and safety reasons. Some wood residues (solid or liquid) can catch fire or release unpleasant odours during the subsequent smoking process. Pour the wood residues inside a fire-proof bin with a cover so to prevent them from coming into contact with flammable material.
- Always monitor the appliance during operation.
- When Hyper.Smoker is active, the oven preheating function can last longer to allow Hyper.Smoker to reach the smoke production temperature (max 20 minutes).

The manufacturer reserves the right to make changes to improve the appliances and accessories at any time without advance notice. Full or partial reproduction of this manual is forbidden without the consent of the manufacturer. The measurements provided are approximate and not binding. In the event of disputes, this document was originally written in Italian. The manufacturer is not responsible for any translation/interpretation errors.

* For further information ▶ go to www.unox.com under the "Warranty" section

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UNOX Model 1S

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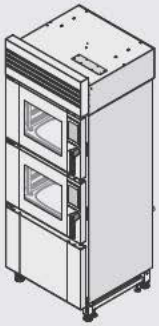
Disposal 90

Installing the appliance safely

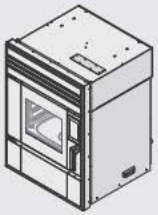
This manual contains instructions for assembling the UNOX Model 1 and UNOX Model 1S appliances. Please see the specific installation instructions for the appliance you own.

UNOX Model 1 : see pag.**16**
UNOX Model 1S : see pag.**63**

For additional technical information, please see the "Technical specifications" sheet.
On this page you may download "Technical specifications" sheets of the products:



UNOX Model 1

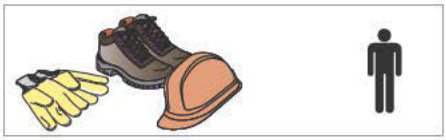


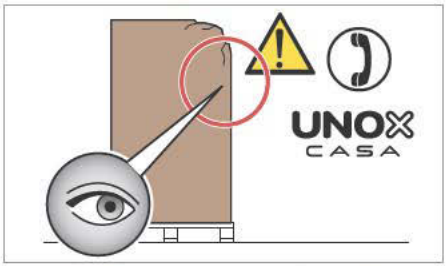
UNOX Model 1S

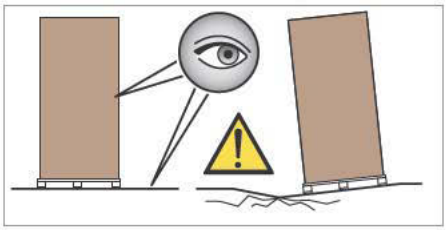
https://www.unoxcasa.com/int/useful-resources/downloads/

TRANSPORTING THE APPLIANCE

Before transporting the appliance to its installation point, make sure that it smoothly passes through doorways, the floor withstands its weight and the manoeuvre area is free from people, animals or objects.
Transport exclusively using mechanical equipment (e.g. a pallet jack) suitable for the weight and dimensions of the appliance and when your mental and physical faculties are at their best. Always wear PPE (e.g. accident-prevention shoes).





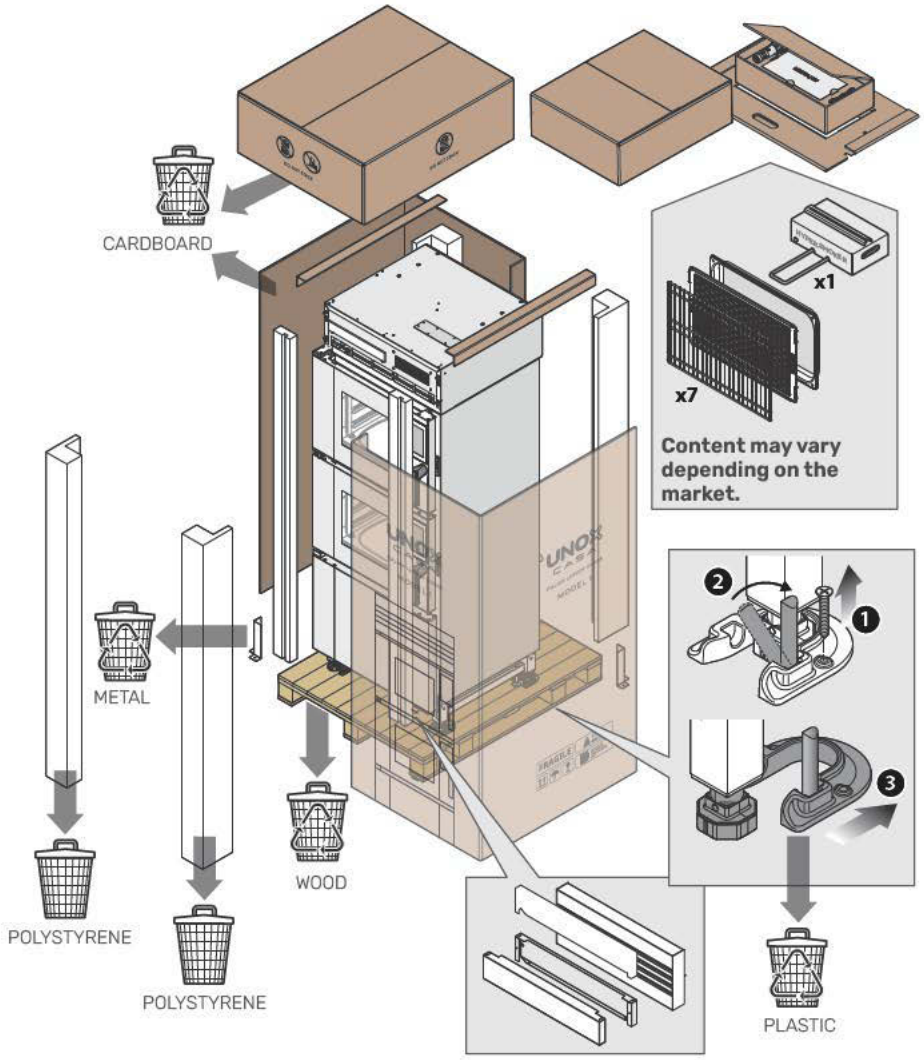




UNPACKING THE APPLIANCE

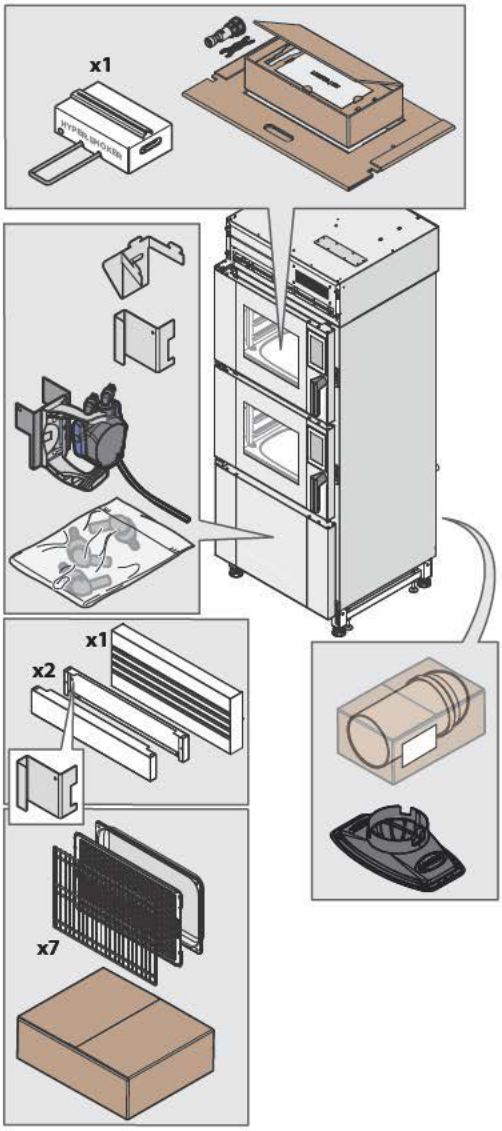
Unpack the appliance as shown in the figure.
The packaging material is potentially dangerous. It must be kept out of the reach of children and animals, and correctly disposed of in compliance with local regulations.

UNOX has followed the NON-STOP Efforts philosophy for years, to increase the environmental compatibility of its products and reduce energy consumption and waste. UNOX wishes to protect the environment and invites the consumer to dispose of waste in recycling bins.



CHECKING PACKAGE CONTENTS

Before installing the appliance, check that the following components are included in the package and are undamaged. Please contact UNOX if a component is missing or damaged and do not proceed with the installation.



Package contents (content may vary depending on the market):

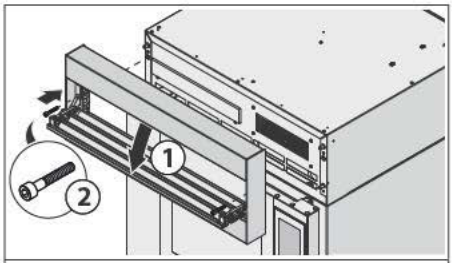
- Column for:
  - electrical connections (1.5 m | 4' 11" 1/16 power supply cable with a 32A plug);
  - plumbing (water supply tube, mechanical filter, 3/4 fitting with non-return valve already assembled);
- Cooking Essentials: Unox Casa trays.
  - BLACK.FRY - GRP818;
  - EGGS 6 - TG932;
  - GRILL - TG882;
  - FAKIRO.GRILL - TG872;
  - BLACK.40 - TG902;
  - FORO.BLACK - TG892;
  - STEEL.GRID - GPR807
- 1 x Water filter system
- 1 x Hyper Smoker kit;
- 1 x front base + 1 x extension (flush-mount installation);
- Technical documents (use and installation manual, "Technical specifications" sheet);
- General documentation: Quick guide, flyer marketing.

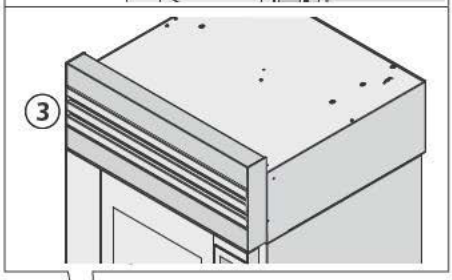
GETTING STARTED

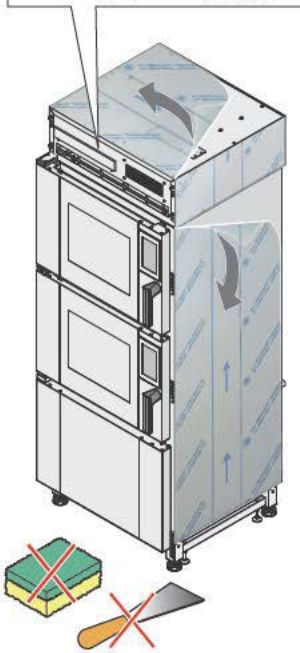
REMOVING PROTECTIVE FILMS

MODEL 1 with frame XUC 501 and **MODEL 1 freestanding:** remove the protective films from the appliance. Clean any glue residue with appropriate solvents without using tools, abrasive detergents or acids that could spoil the surfaces. The protective films are potentially dangerous and must be kept out of the reach of children and animals, and correctly disposed of in compliance with local regulations.

MODEL 1 with frame XUC 502: the protective films needs to be taken out at a later point. See page **26** for further information.







MOUNTING FRONT HOOD PANEL

MODEL 1 with filter hood

(1) (2) (3) Mount the front hood panel (is packaged together with the base under the oven).

MODEL 1 with extractor hood

The front hood panel needs to be mount at a later point. See page **52** for further information.

POSITIONING

VERIFICATION OF THE INSTALLATION AREA'S FEATURES

Install the appliance in areas:

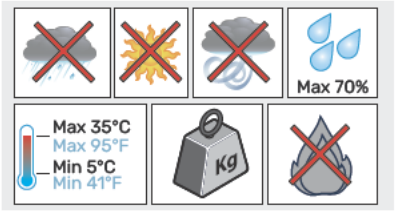
- specific for this purpose and compliant for cooking foods;
- that are adequately ventilated;
- that comply with the laws in your country regarding system safety;
- protected from the weather;
- with temperatures from +5°C to +35°C (+41°F to +95°F) maximum;
- that have maximum humidity of 70%;
- with flooring to support the weight of the appliance when fully loaded (please see the table below).

Ovens must exclusively be set on floors that meet the following requirements:

- be flame and heat resistant;
- be perfectly level;
- have a flat and even surface;
- be able to support the appliance weight at full load without undergoing deformation or structural failure.

Do not install the appliance near other appliances that reach high temperatures, to avoid damaging electrical parts. Do not insert cupboards above the cooking column.

Model	Dimensions (WxDxH)	Weight	Distance between trays	Max food load
MODEL 1 + XUC502 frame	800 x 740 x 2137 mm 31" 1/2 x 29" 9/64 x 84" 9/64	Oven: 230 kg | 507.1 lbs Frame: 14 kg | 30.9 lbs	80 mm 3" 5/32	20 kg + 20 kg 44.1 lbs + 44.1 lbs
MODEL 1 + XUC501 frame	788 x 740 x 2130 mm 31" 1/32 x 29" 9/64 x 83" 55/64	Oven: 230 kg | 507.1 lbs Frame: 14 kg | 30.9 lbs		20 kg + 20 kg 44.1 lbs + 44.1 lbs
MODEL 1 freestanding	750 x 735 x 2112 mm 29" 17/32x 28" 15/16x 83" 5/32	230kg | 507.1 lbs		20 kg + 20 kg 44.1 lbs + 44.1 lbs



For additional technical information on the appliance, please see the "Technical specifications" sheet.
On this page you may download "Technical specifications" sheets of the products:
https://www.unoxcasa.com/int/useful-resources/downloads/

VERIFICATION OF THE INSTALLATION AREA'S SYSTEMS

The installation areas must be equipped with electrical and plumbing systems that comply with the regulations on systems and occupational safety in the country of use.

Required connections:

A B plumbing connection | incoming water

The appliance is provided with a fitting (3/4") A with a non-return valve for plumbing, 3 m | 9' 10" 7/64 of tubing for the connection to the water inlet, a mechanical filter, a pressure reducer and a water filtering system. The maximum inlet water pressure shall be 0.15-1 MPa / 1.5-10 bar / 21-145 psi. We recommend installing a shut-off valve B (not supplied). The plumbing connection A and the shut-off valve B must be set up **outside** the niche, so that they can be accessed easily.

For further information on the features of the incoming water inlet, please see page **35**.

C liquid drain | outgoing water

The appliances in the connection compartment are provided with a drainage pipe C (38 mm | 1" 1/2 outer ⌀, 30 mm | 1" 3/16 inner ⌀). Place the liquid drain **inside** the niche.

For further information on the features of drain, please see page **48**.

D E electrical connections | supply (For additional information, see page **34**).

EU market: The appliance is provided with the power cable already fitted on the internal terminal board but without a plug.

UL market: The appliance is provided without a power cable or plug.

To connect the appliance:

- **D fit an appropriate plug onto the cable** and **ensure there is an electric panel** to disconnect the socket used for the appliance, or
- **E install an electric panel** and connect the appliance cable directly to it
  - The plug:
    - is NOT supplied (the installer is responsible for selecting an appropriate plug)
    - can be inside or outside the niche, as needed.
  - The electric panel:
    - is NOT supplied (the installer is responsible for selecting it)
    - must be placed outside the niche, so that the appliance power supply can be easily shut off, if required
    - must respect the regulations in force in the country in which the appliance is installed.

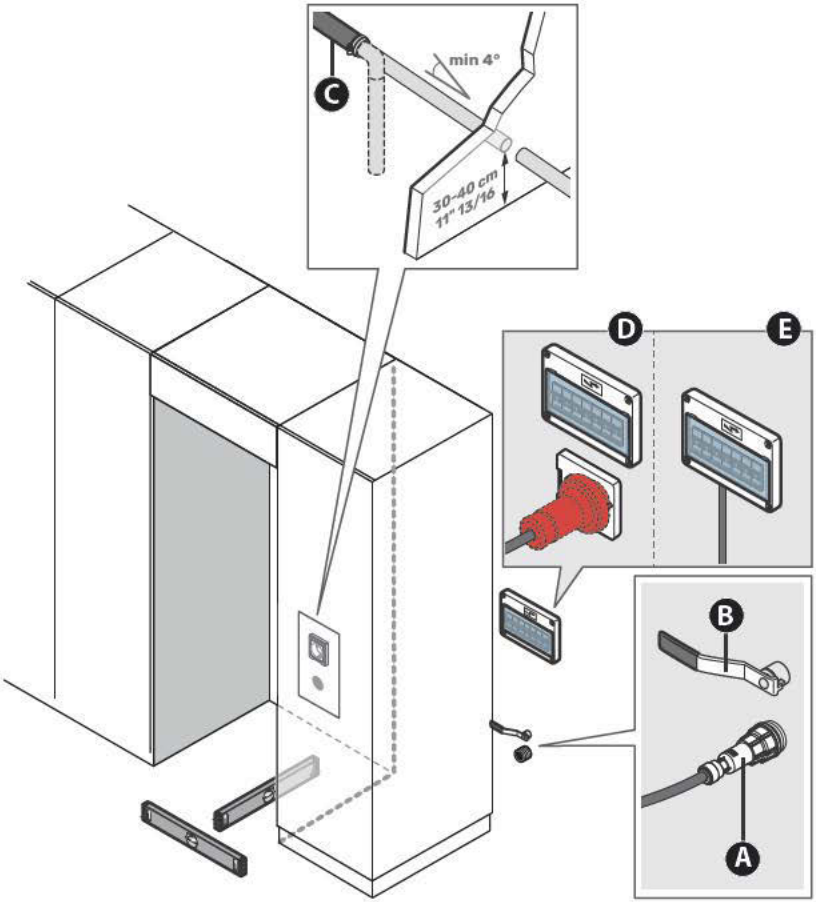
WARNING! If the oven is installed inside a cabinet with doors, the doors must kept be open:

- during oven use
- after oven use until it has cooled completely (the oven automatically switches to stand-by mode).

Closing the doors before the oven has completely cooled could reduce the lifespan of the oven's electronic components and damage the cabinet.

For additional technical information on the dimensions of the niche to be prepared, please see the "Technical specifications" sheet.

On this page you may download "Technical specifications" sheets of the products
https://www.unoxcasa.com/int/useful-resources/downloads/


C
min 4°
30-40 cm
11" 13/16
D
E
B
A

PREPARING THE APPLIANCE

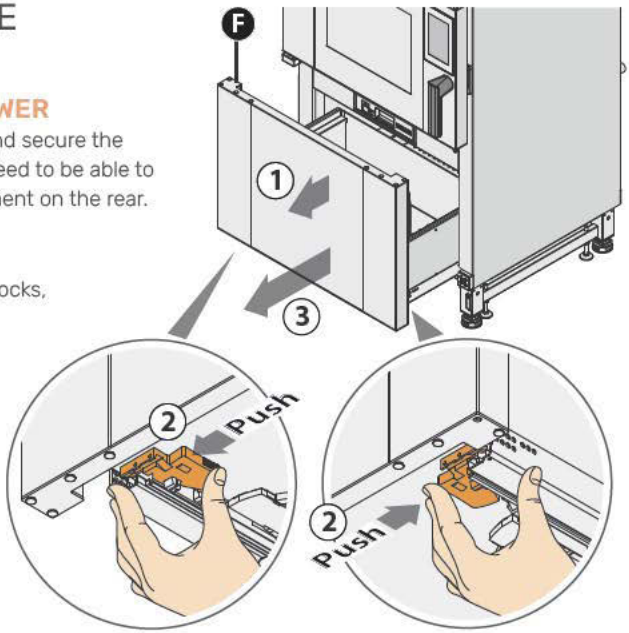
REMOVING THE DRAWER

To make the connections and secure the appliance to the wall, you need to be able to easily access the compartment on the rear.

(1) Open the **drawer** F.

(2) use the lower orange blocks,

(3) and remove it from its guides. Caution: the drawer is heavy. Place it away from the installation area so it is not in the way. Pay attention not to scratch it, damage it or break the glass.

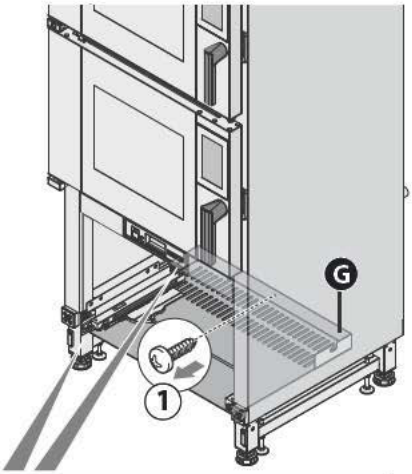


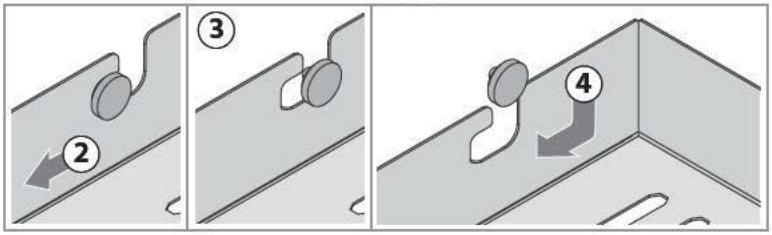
REMOVING THE BOTTOM

Remove the clamps for the IN and OUT hoses in the bottom of the base.

(1) Remove the screws

(2) (3) (4) Remove the **bottom** G from the bayonet couplings. Store it in a safe place until you reassemble it.





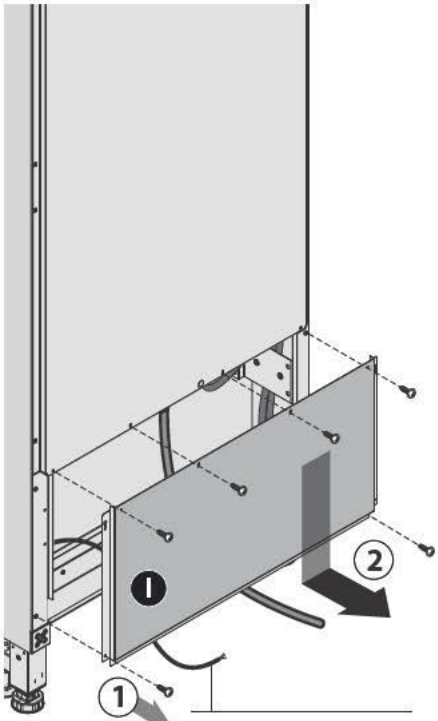
REMOVING THE REAR CLOSURE

(1) Loosen the screws holding the **rear closure** ❶

(2) Move it downwards to remove it.

Where installation is:

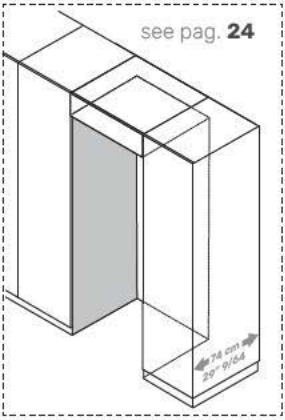
- **in a niche,** the rear closure MUST NOT be reassembled (we recommend keeping it anyway);
- **freestanding,** the rear closure must be:
  - reassembled if the column is detached from the walls;
  - NOT reassembled if the column is secured to one wall.

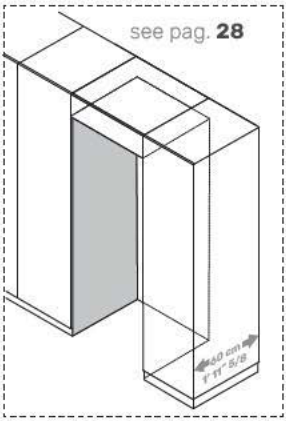


The power cable is provided only for the EU market.

If the appliance is inserted in a niche measuring:

- **74 cm | 29" 9/64**: the external **XUC502 frame** must be attached to the column (see page **24**)
- **60 cm | 1' 11" 5/8**: mount the optional **XUC501 frame** in the niche (see page **28**)



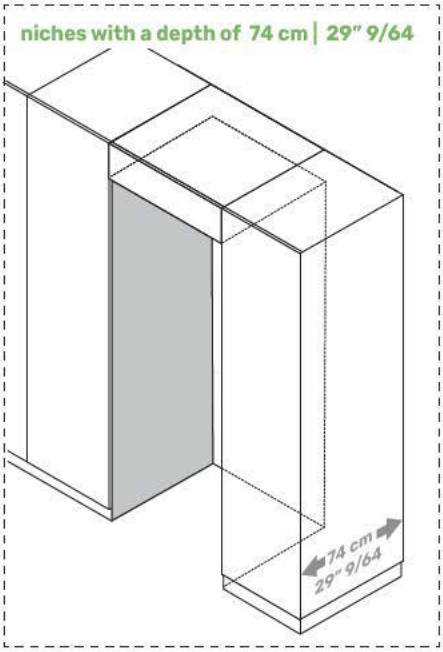


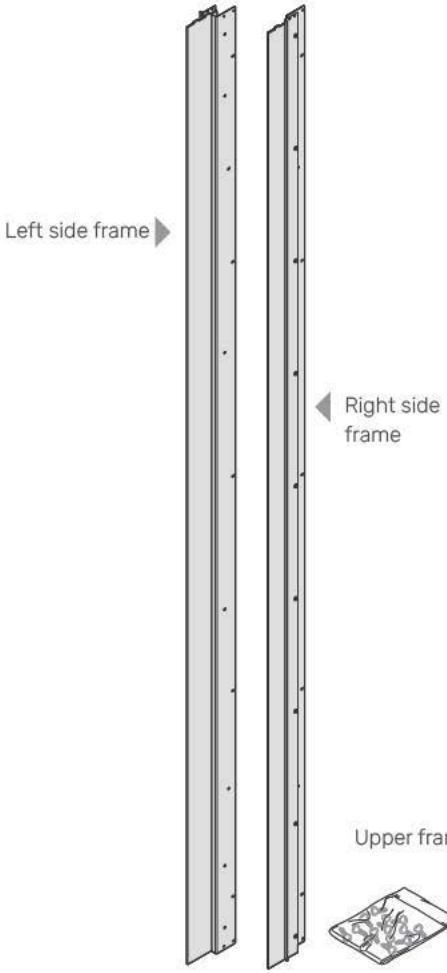
ASSEMBLING THE XUC 502 FRAME

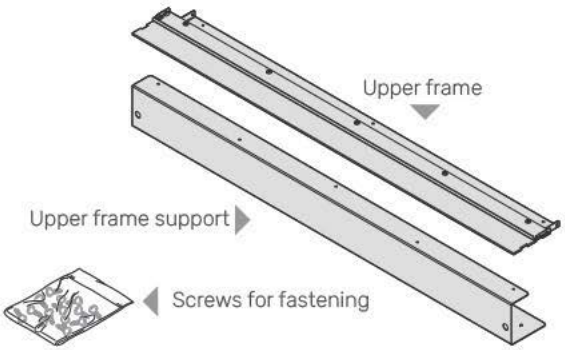
MOUNTING AND ATTACHING THE EXTERNAL **XUC502 FRAME** TO THE OVEN

only niches with a depth of 74 cm | 29" 9/64 (flush-mount installation)

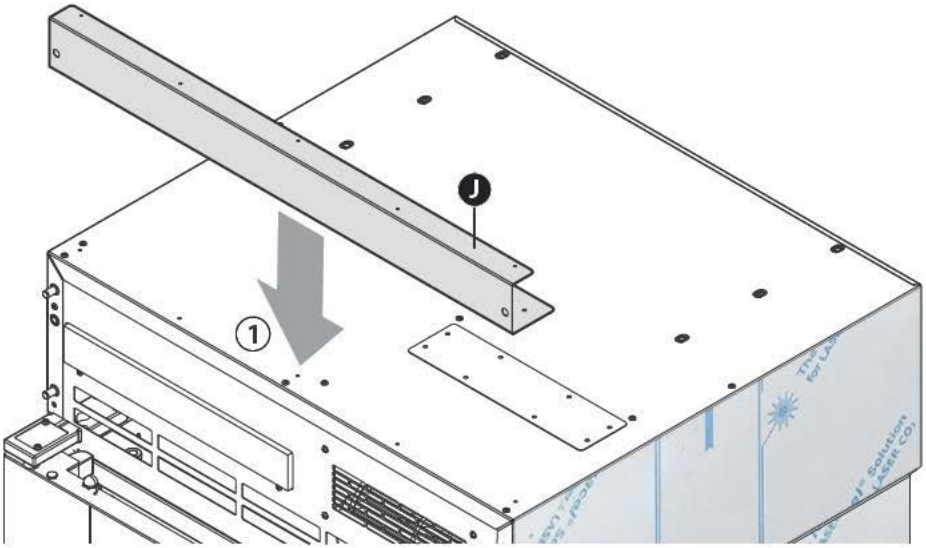
Where the niches are **74 cm | 29" 9/64 deep** (i.e. flush-mount installation), the **external frame XUC502** must be attached to the column. Once the frame and column are attached together, they can be put inside the niche.



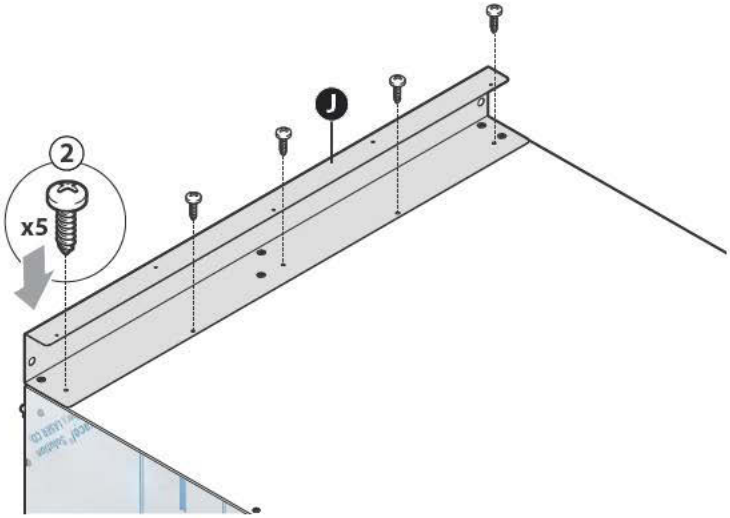




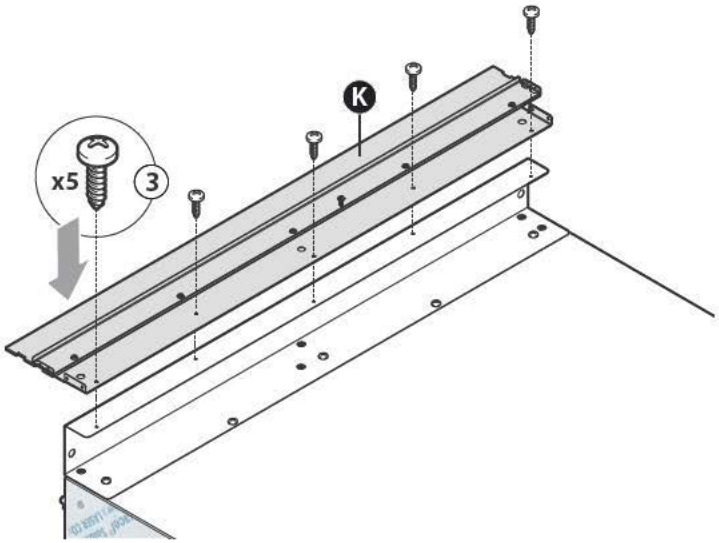
(1) Place the **upper frame support** (J) on the upper front part of the oven.



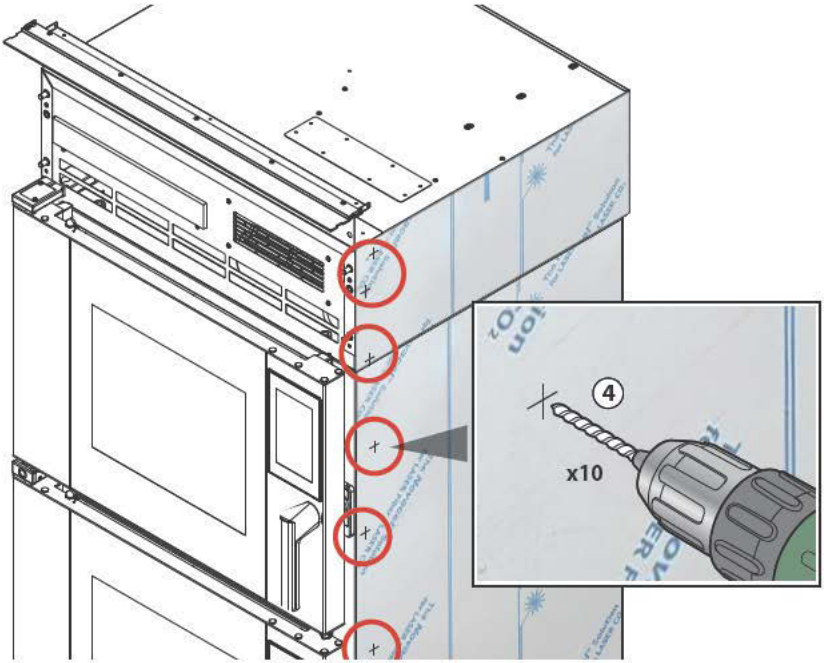
(2) Secure the **upper frame support** (J) at the oven.



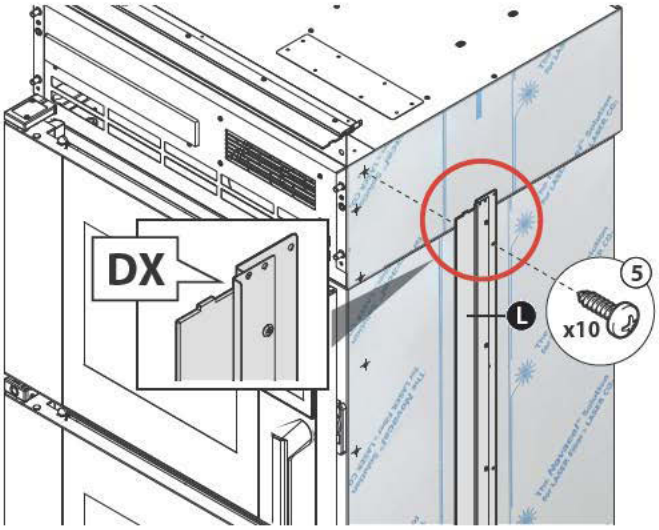
(3) Position and fasten the **upper frame** (K) onto the support.



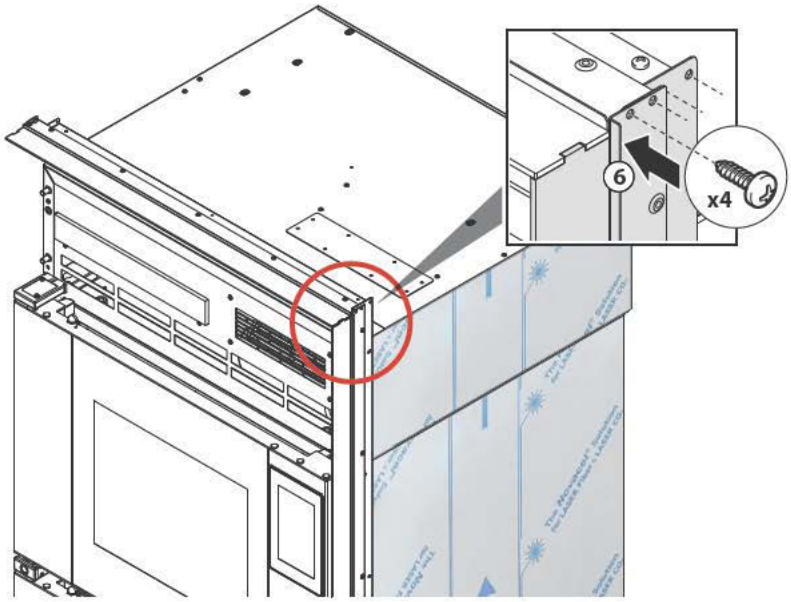
(4) Drill holes in the marked locations on protective film



(5) Position and fasten the **right side frame** (L) onto the oven.



(6) Secure the **right side frameright side frame** (L) at the upper frame support.



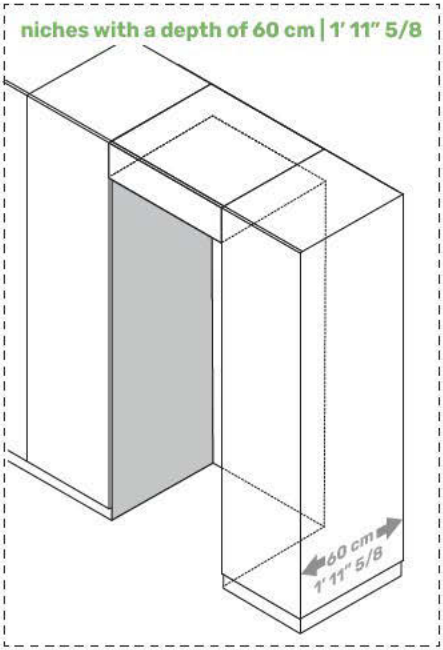
(7) Repeat steps (4) (5) (6) for **left side frame**.

ASSEMBLING THE XUC 501 FRAME

MOUNTING AND ATTACHING THE OPTIONAL **XUC501 FRAME** TO THE NICHE

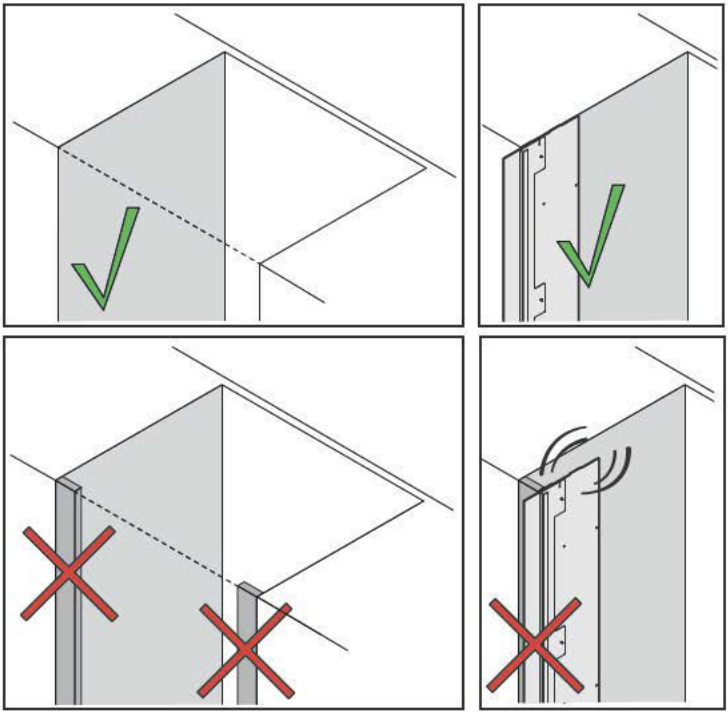
only niches with a depth of 60 cm | 1' 11" 5/8 (NOT flush-mount installation)

Where the niches are **60 cm | 1' 11" 5/8** deep (NOT flush-mount installation), you must mount the o**ptional XUC501 frame** in the niche.

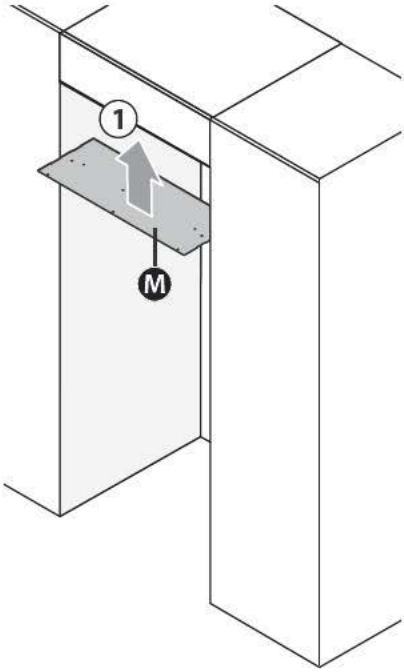


The surface inside the niche must be perfectly flat, with no cladding or protrusions.

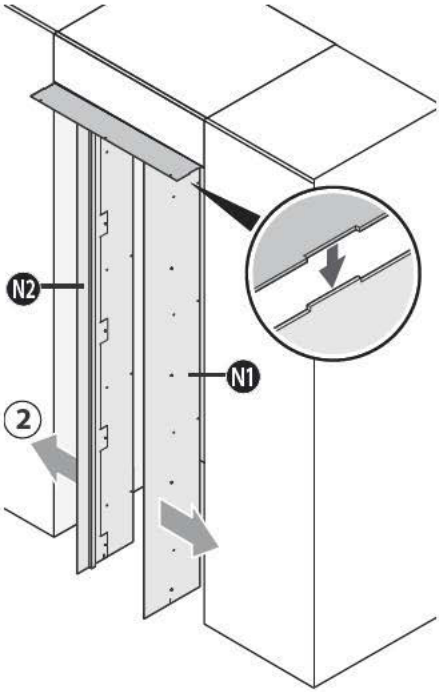
This ensures that the frame can be attached correctly and stably.



1 Position the **upper spacer** M in the niche. The spacer must protrude from the niche.



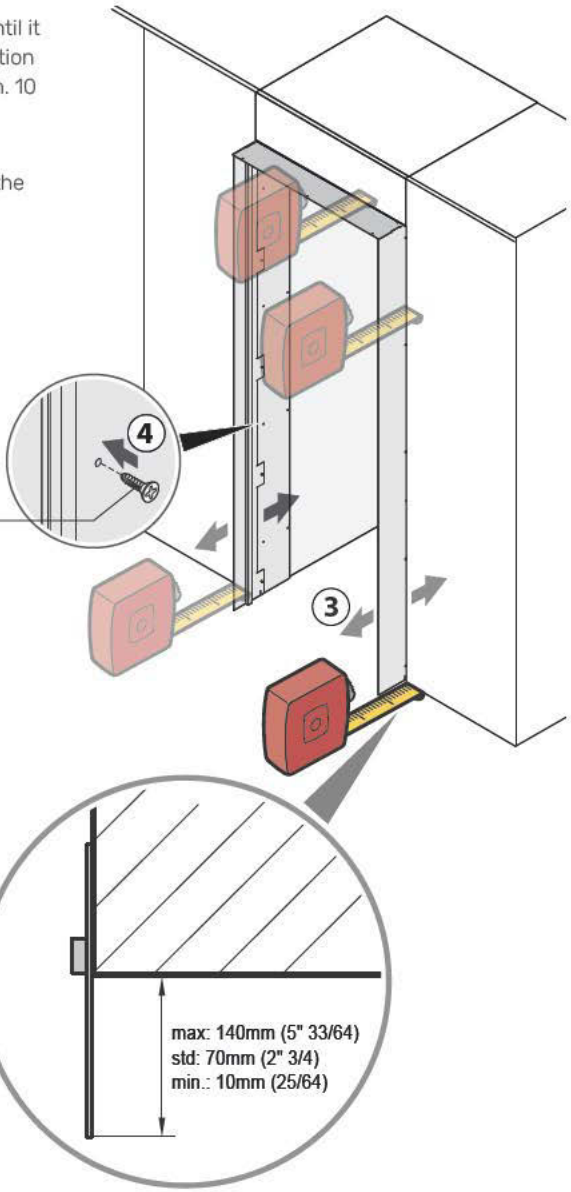
2 Now, position the **vertical spacers** N1 and N2.



(3) Position the XUC 501 frame until it reaches the desiderate projection (max. 140 mm | 5" 33/64 - min. 10 mm | 25/64).

(4) Secure the XUC 501 frame at the oven.

UNOX does not supply screws.
Use appropriate screws for attachment to wood.
The installer is responsible for selecting the screws.

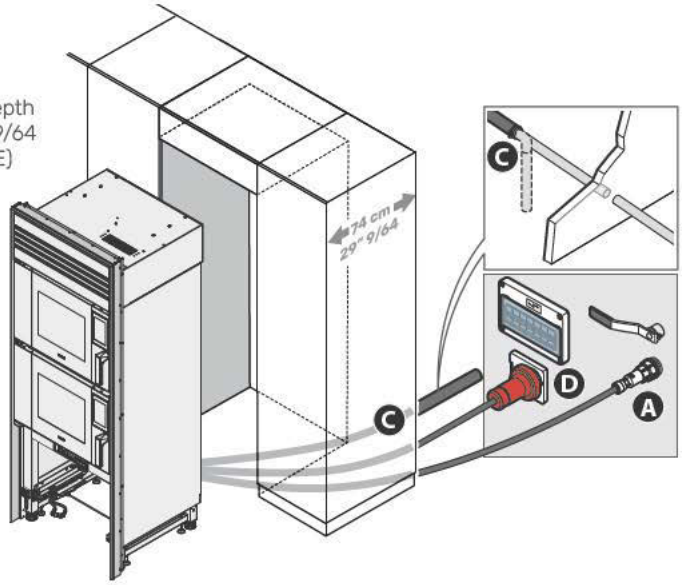


ATTACHING THE COLUMN

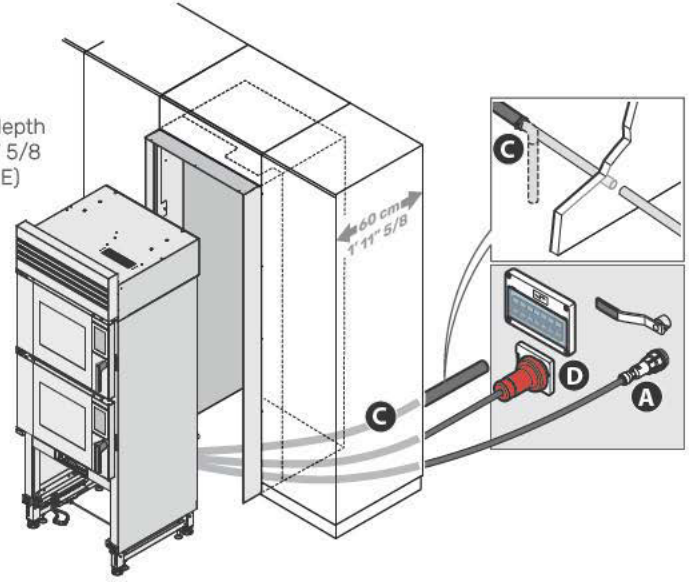
Make all the connections:

- **electrical** D (see page **32**).
- **incoming water** A (see page **35**);
- **outgoing water** C (see page **48**).

niches with a depth of 74 cm | 29" 9/64 (XUC502 FRAME)



niches with a depth of 60 cm | 1' 11" 5/8 (XUC501 FRAME)



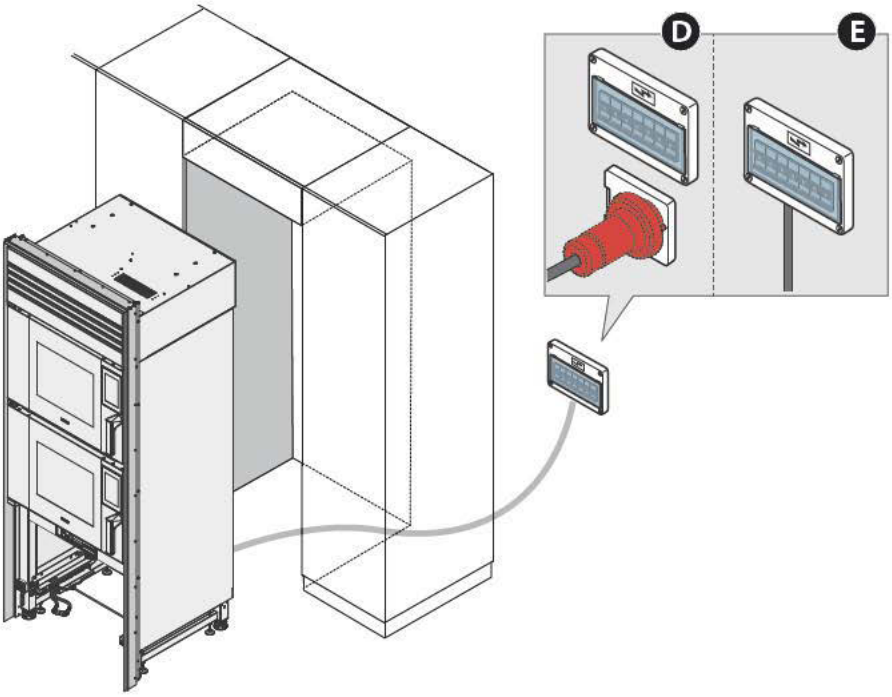
ELECTRICAL CONNECTIONS

Before connecting the appliance, please read the "**Safety information for installing the appliance**" section on page **5** carefully.

EU market: The appliance is provided with the power cable already fitted on the internal terminal board but without a plug.
UL market: The appliance is provided without a power cable or plug.
To connect the appliance:

- **D** **fit an appropriate plug onto the cable** and **ensure there is an electric panel** to disconnect the socket used for the appliance, or
- **E** **install an electric panel** and connect the appliance cable directly to it
  - The plug:
    - is NOT supplied (the installer is responsible for selecting an appropriate plug)
    - can be inside or outside the niche, as needed.
  - The electric panel:
    - is NOT supplied (the installer is responsible for selecting it)
    - must be placed outside the niche, so that the appliance power supply can be easily shut off, if required
    - must respect the regulations in force in the country in which the appliance is installed.

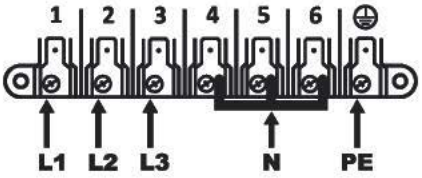
Make sure that the plug is accessible even once installation is complete.
The fixed wiring connected to the appliance must include a device that provides all-pole disconnection under overvoltage category III conditions, as per wiring rules



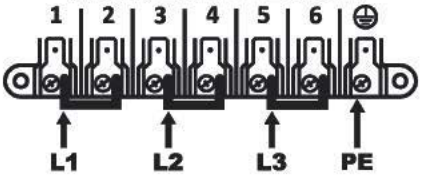
EU market

Internal terminal block connection diagram (the cable is already attached in factory)

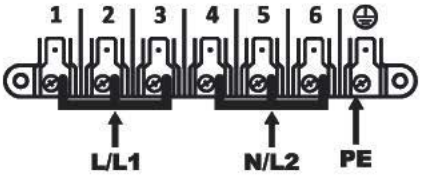
380-415V ~ 3PH + N + PE 50/60Hz



220-240V ~ 3PH + PE 50/60Hz



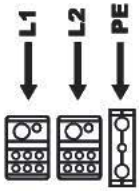
220-240V ~ 1PH + N + PE 50/60Hz
220-240V ~ 2PH + PE 50/60Hz



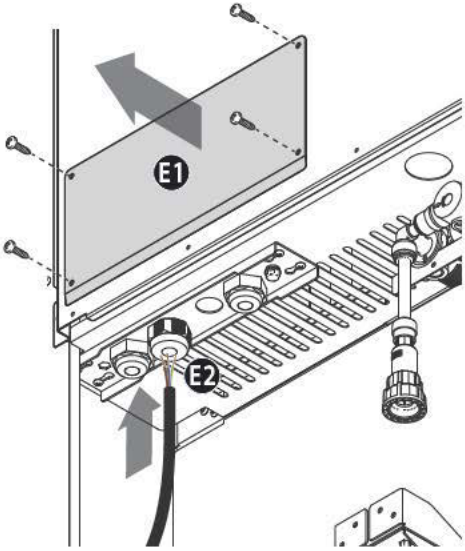
UL market

Internal terminal block connection diagram. The installer must remove the rear oven panel E1, pass the cable through the cable run E2 and attach it to the internal terminal block. The electric cable Is NOT supplied (the installer is responsible for selecting it).

208-240V ~ 2PH + PE 60Hz



USE ONLY COPPER WIRE



Checks

The copper jumper on the terminal board and the electrical cable must be fastened together under the screw in its tightening direction, and the electrical connections must be securely tightened before connecting the appliance to the electricity mains.
Check for any electrical dispersion between the phases and the earth, and for electrical continuity between the external casing and the mains earth.
Check that the power supply voltage does not deviate from the nominal voltage specified on the appliance ratings plate when the appliance is operating. If it does, wire the phases as specified on the "Technical specifications" sheet supplied

Replacing the power supply cable

The cable must be replaced by UNOX, the UNOX technical assistance service or, in any case, by a person with a similar role in order to prevent any risks. Follow the procedures below to replace the power supply cable:

- remove the rear oven panel and remove the cable by detaching it from the terminal block;
- see the "Technical specifications" sheet (Power supply - Connection Diagram) which shows all of the possible wiring diagrams and the new cable spec according to the chosen connection (Cable Type);
- secure the new cable using the cable clamp;
- close the rear panel of the oven.

Electrical data

	MODEL 1 XEVH-5511-EPRM				MODEL 1 XAVH-5511-EPRM	
Voltage	380-415 V	220-240 V	220-240 V	220-240 V	240 V	208 V
Phase	~3PH+N+PE	~3PH+PE	~1PH+PE	~2PH+PE	~2PH+PE ~1PH+PE	~2PH+PE
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	60 Hz	60 Hz
Total power	10 kW	10 kW	10 kW	10 kW	10.2 kW	7.9 kW
Maximum absorbed current (Ampere)	17.5 A	26.5 A	43.5 A	43.5 A	42,5 A	38 A
Dimensions of the differential circuit-breaker	32 A	32 A	50 A	50 A	50 A	45 A
Power supply cable requirements	H07RN-F 5G4 mm²	H07RN-F 4G4 mm²	H07RN-F 3G6 mm²	H07RN-F 3G6 mm²	3 x AWG 8*	3 x AWG 8*
Power supply cable diameter (already installed)	16.25 mm 5/8	16.25 mm 5/8	16.25 mm 5/8	16.25 mm 5/8	NOT included	NOT included
Power cable length	2 m 6' 6" 47/64				suggested 1.5 m | 4' 11" 1/16	
Plug	NOT included					

*Recommended size - observe local ordinance.

INCOMING WATER

The appliance in the connection compartment is provided with:

Ⓐ a (3/4") fitting with non-return valve and a mechanical filter for plumbing;

Ⓑ a 3 m | 9' 10" 7/64 hose for the connection to the water supply;

Ⓒ a pressure reducer;

Ⓓ anti-scale magnets;

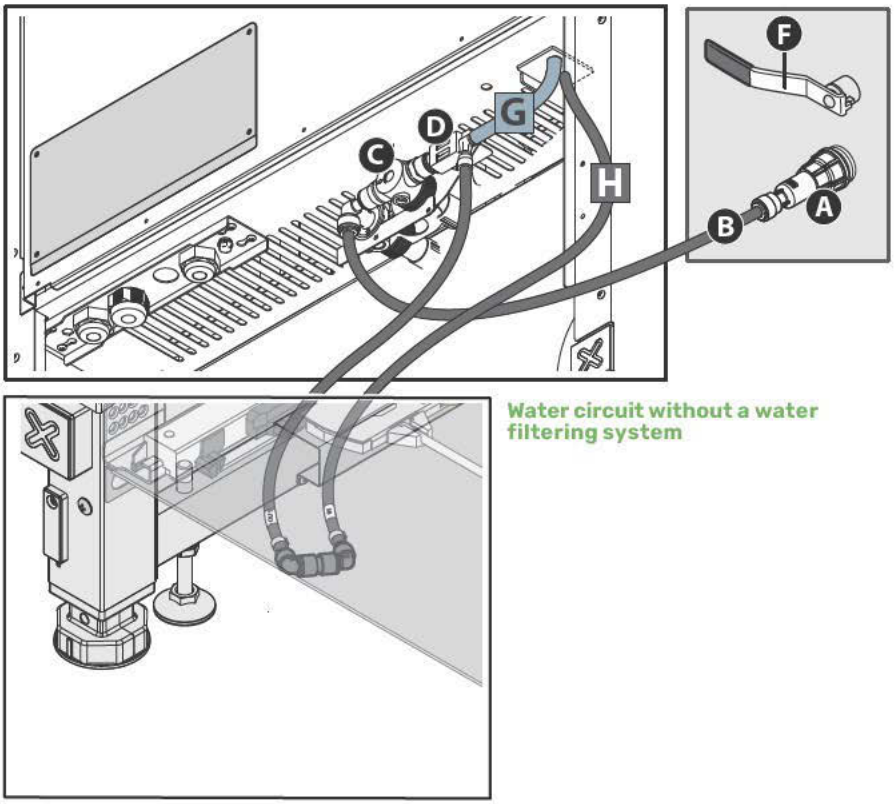
Ⓔ an integrated water filtering system (to be replaced every 12 months by a qualified and authorised UNOX technician).

The incoming water is divided between the:

- G WASH circuit (non-decalcified water)
- H STEAM circuit (decalcified water).

We recommend installing a shut-off valve Ⓕ (not supplied).

Before connecting the water pipe to the appliance, flush out the pipe with water to eliminate any residues. Use the set of new couplings (provided with the appliance) to connect the appliance to the water mains. Do not re-use previously used couplings.



Water circuit without a water filtering system

Inlet water characteristics

The incoming water is divided between the:

- G WASH circuit (non-decalcified water)
- H STEAM circuit (decalcified water).

Regardless of its use, it must:

- have a maximum temperature of 30°C | 86°F;
- be drinkable;
- have a pressure value ranging between 1.5 bar and 6 bar, recommended 2 bar (21 psi and 87 psi - recommended 29 psi | 144790 Pa and 599844 Pa, reccomended 199948). If the pressure of the incoming water is lower than the minimum value, you must install a pump (minimum flow rate: 300 l/h | 79,25 gallons per hour). All ovens come with an integrated pressure reducer as standard;
- have maximum conductivity of 1000 µS/cm. If the water conductivity exceeds 1000 µS/cm, the water used for producing steam must be treated.

In addition to these characteristics, the incoming water must respect all the parameters specified below. This applies both to the WASH circuit and the STEAM circuit. If the water values differ from those shown below, treat the incoming water properly to bring the values within the limits indicated for each circuit. For appliances connected to a water source using detachable hose assemblies, use the new hose assembly provided with the appliance. Old hose assemblies must not be reused.

> Pressure surges can cause the oven's water system to malfunction. If the pressure reading during installation is close to maximum, install a pressure reducer. Damage caused by pressure surges is not covered by the warranty.

WASH circuit

The incoming water used for the WASH circuit must have the following chemical/physical characteristics:

- Free chlorine ≤ 0.1 ppm | 0.000016 oz/gal
- Chloramine ≤ 0.1 ppm | 0.000016 oz/gal
- pH 7-8.5
- TDS ≤ 125 ppm | 0.02 oz/gal
- Total hardness (TH) ≤ 30 °dH (534 ppm)
- Chlorides ≤ 120 ppm | 0.019 oz/gal

STEAM circuit

To avoid corrosion and the formation of limescale, the incoming water used for the STEAM circuit must have the following chemical/physical characteristics:

- Free chlorine ≤ 0.1 ppm | 0.000016 oz/gal
- Chloramine ≤ 0.1 ppm | 0.000016 oz/gal
- pH 7-8.5
- TDS ≤ 125 ppm | 0.02 oz/gal
- Total hardness* (TH) ≤ 8 °dH
- Electrical conductivity ≤ 1000 µS/cm
- Chlorides** ≤ 25 ppm | 0.004oz/gal

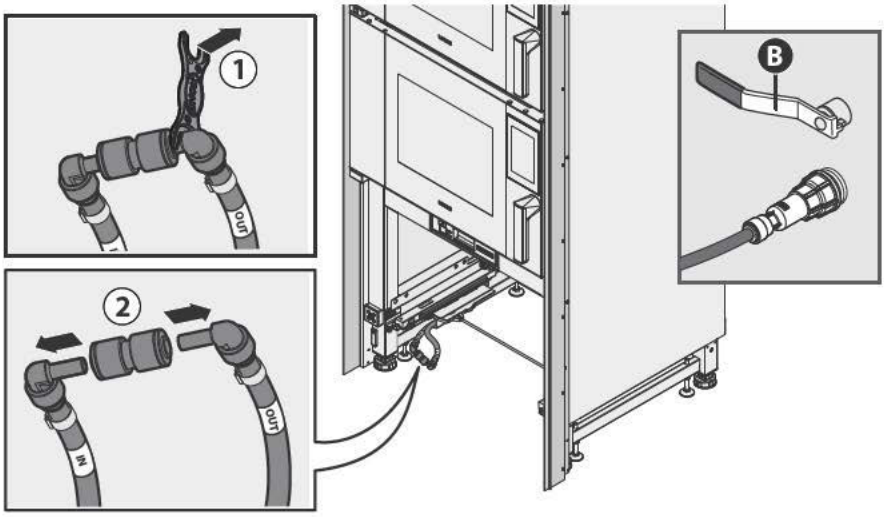
* hardness measured using the KSTR1082A kit

** The maximum chloride content, Cl-, is not a fixed value; it depends on the calculated Non Hardness Measurement (NHM)

ASSEMBLING THE WATER FILTERING SYSTEM

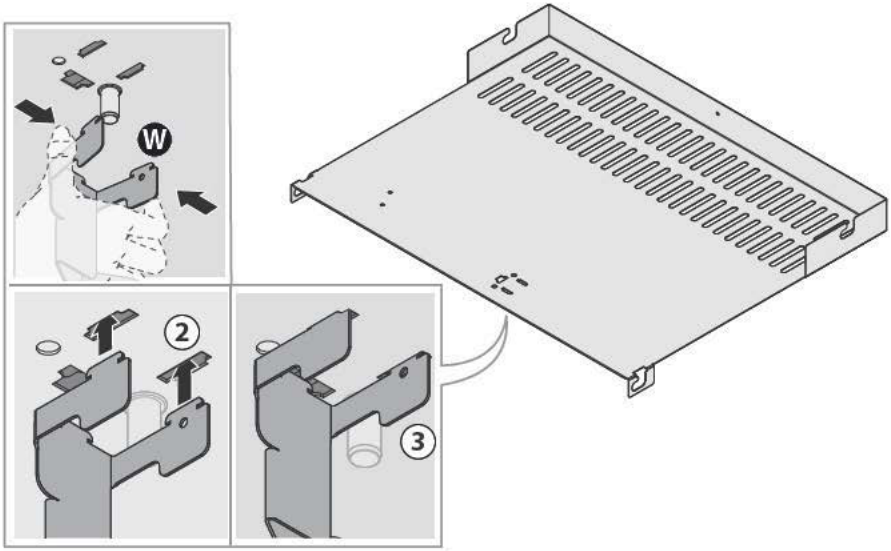
Ensure that the shut-off valve **B** is closed.

(1) (2) Separate the IN and OUT hoses using the key provided.



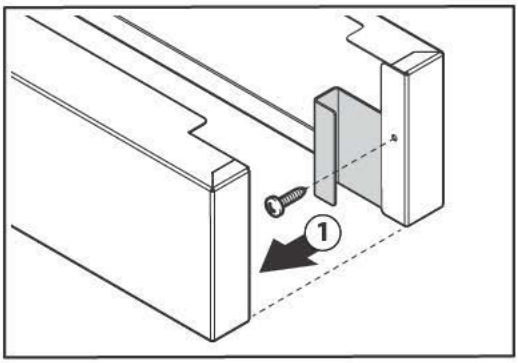
Mounting the support clip (SMALL water filtering system)

Do this ONLY if you will be installing a small water filtering system (filter for EUROPEAN market).

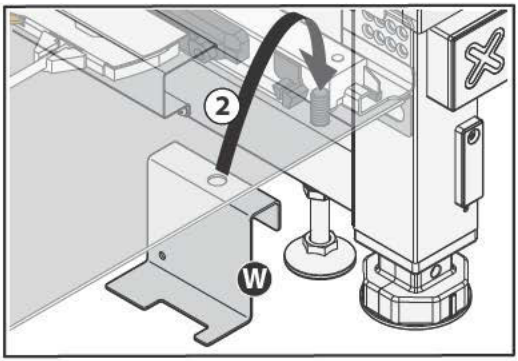


Mounting the support clip (LARGE water filtering system)

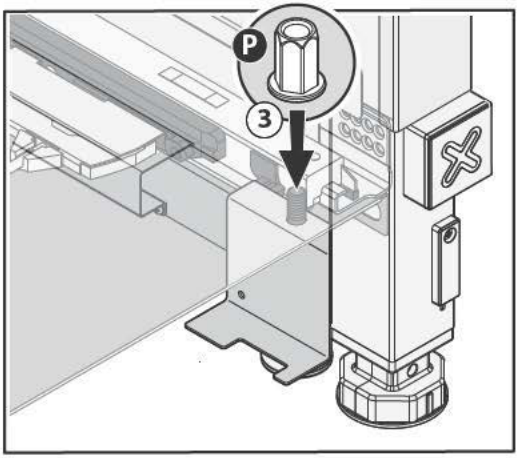
Do this ONLY if you will be installing a large water filtering system (filter for USA market | filter optional for European market).



(1) In ovens intended for the European market, the support clip is found inside the bottom skirting.
In ovens intended for the USA market, the support clip is found inside the drawer.

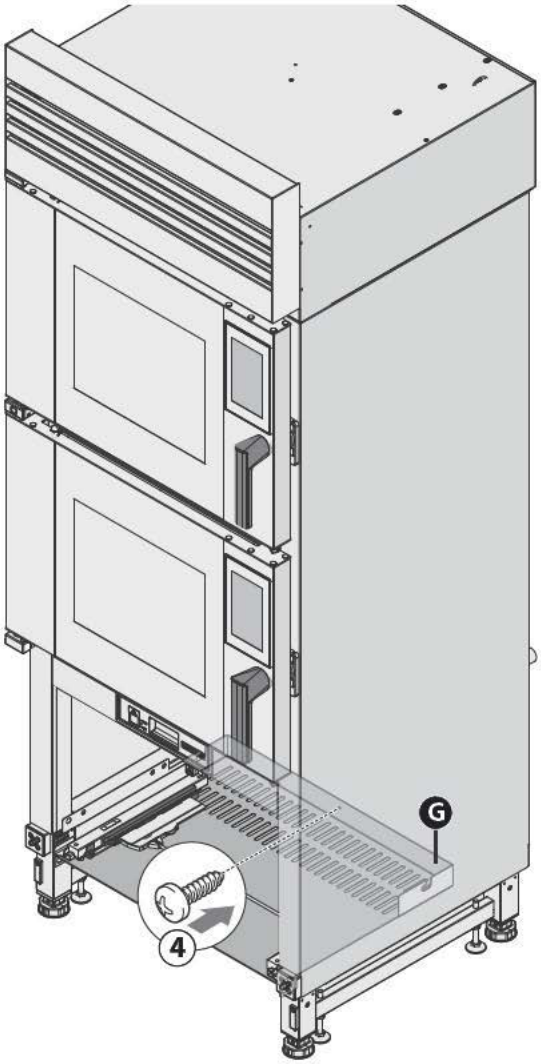


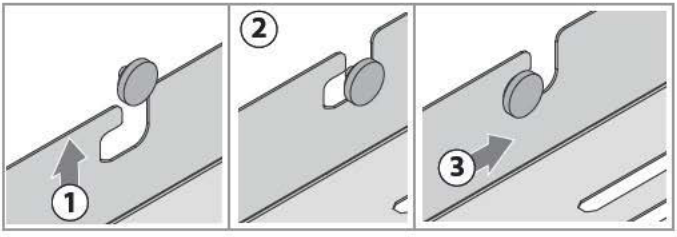
(2) Insert the **support bracket** (W) in the pin on the bottom of the oven.



(3) Block the **support bracket** (W) with the component (P)

Reassembling the bottom

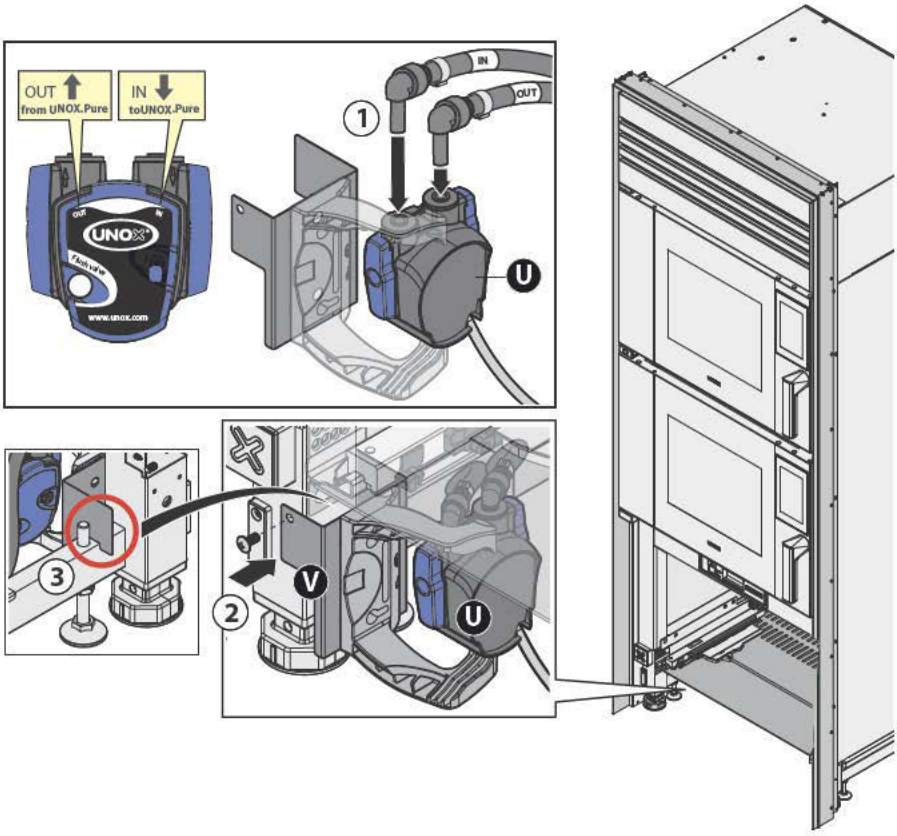




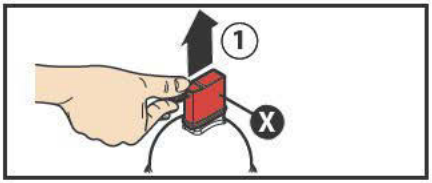
(1) Snap the IN and OUT hoses into the connectors on the **filter head** (U).
Ensure each hose is snapped onto the correct connector.

(2) Position the **support** (V) + **filter head** (U) assembly as shown in the figure.
Block the **support** (V) + **filter head** (U) assembly with a screw.

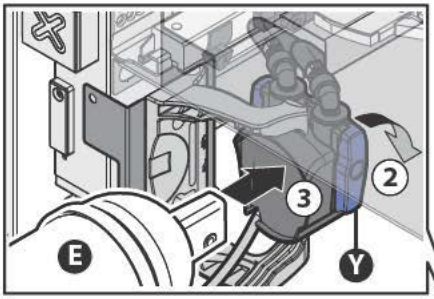
(3) Ensure that the assembly is resting against the side pillar correctly.

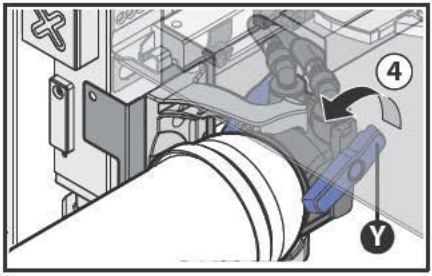


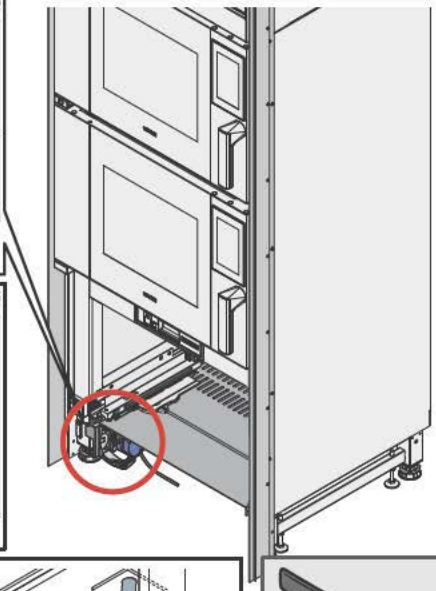
Assembling the water filtering system

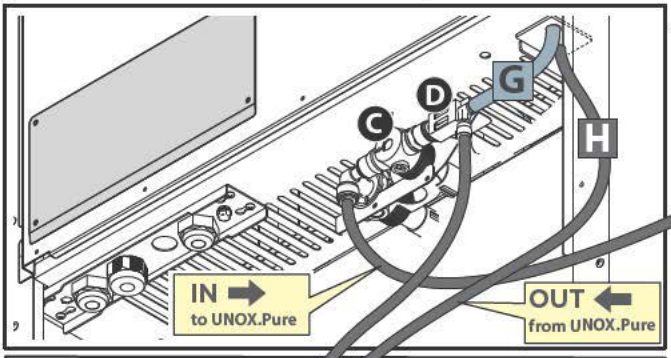


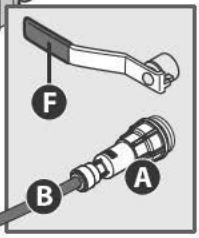
1. Remove the **protective cap** X.
2. Rotate the two **side hooks** Y.
3. Insert the **cartridge** Z.
4. Rotate the two **side hooks** Y to vertical position.

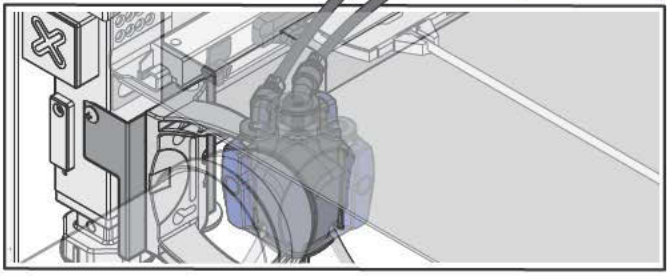








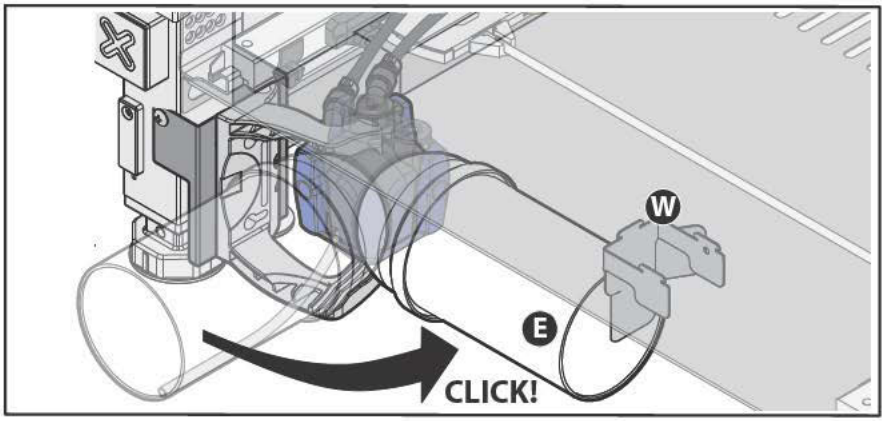




Water circuit with a water filtering system installed

For legend refers to pag. **35**

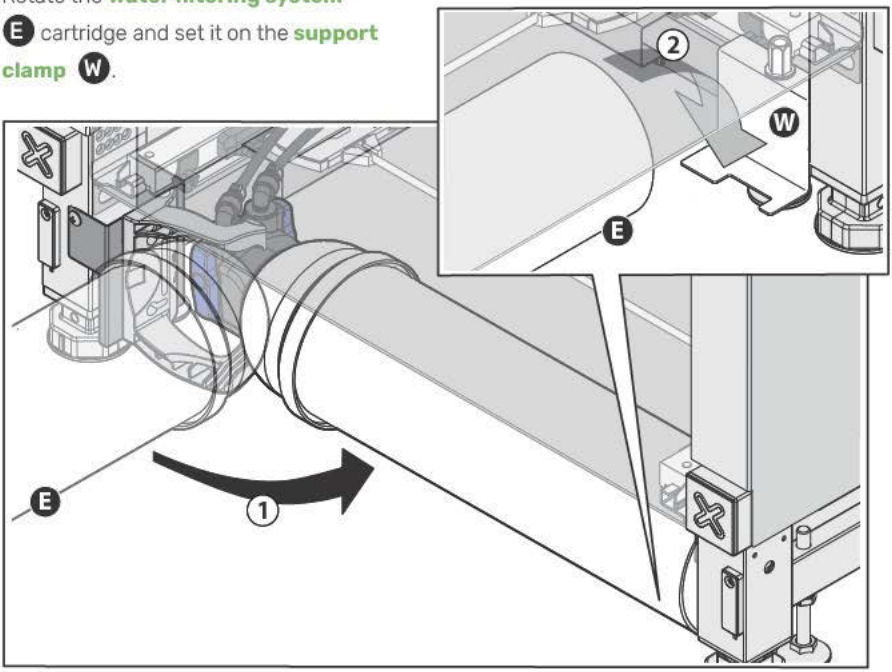
Hooking up the SMALL water filtering system (EUROPEAN market)



Rotate the **water filtering system** cartridge E and connect it to the **support clip** W.

Assembling the LARGE water filtering system (EUROPE/USA market)

Rotate the **water filtering system** E cartridge and set it on the **support clamp** W.



WATER FILTERING SYSTEM TECHNICAL DATA

		Type of cartridge	
		XHC004	XHC011
Operating pressure		2 bar – max. 8.6 bar (29 psi - max. 124.7 psi)	
Water intake temperature		4 °C to 30 °C (39,2°F to 86°F)	
Ambient temperature during:	operation	4 °C to 40 °C (39,2°F to 104°F)	
	storage transport	-20 °C to 50 °C (-4°F to 122°F)	
Empty cartridge volume		5.4 litres (1,42 gal)	1 litre (0,26 gal)
Weight	dry	4.6 kg (10,1 lbs)	1.0 kg (2,2 lbs)
	wet	6.9 kg (15,2 lbs)	1.6 kg (3,5 lbs)
Dimensions (width x depth x height)	Filtering system (filter head with filter cartridge)	144 x 144 x 557 mm 5 11/16" x 5 11/16" x 21 15/16"	119 x 108 x 268 mm 4 11/16" x 4 1/4" x 10 9/16"
	Filter cartridge	144 x 144 x 548 mm 5 11/16" x 5 11/16" x 21 9/16"	108 x 108 x 259 mm 4 1/4" x 4 1/4" x 10 3/16"
	Installation dimensions (vertical installation with wall mount)	144 x 148 x 557 mm 5 11/16" x 5 13/16" x 21 15/16"	137 x 130 x 268 mm 5 3/8" x 5 1/8" x 10 9/16"
Operating position		Horizontal or vertical	
Water inlet connector		John Guest 8 mm (5/16")	
Water outlet connector		John Guest 8 mm (5/16")	

Litre-filtering capacity as temporary hardness varies

Recommended °dH	XHC004 capacity		XHC011 capacity	
°KH	litres	gallons	litres	gallons
4	7083	1.871,13	1000	264,17
5	7083	1.871,13	1000	264,17
6	7083	1.871,13	1000	264,17
7	6071	1.603,79	857	226,40
8	5313	1.403,55	750	198,13
9	4722	1.247,42	667	176,20
10	4250	1.122,73	600	158,50
11	3864	1.020,76	545	143,97
12	3542	935,70	500	132,09
13	3269	863,58	462	122,05
14	3036	802,03	429	113,33
15	2833	748,40	400	105,67
16	2656	701,64	375	99,06
17	2500	660,43	353	93,25
18	2361	623,71	333	87,97
19	2237	590,95	316	83,48
20	2125	561,37	300	79,25
21	2024	534,68	286	75,55
22	1932	510,38	273	72,12
23	1848	488,19	261	68,95
24	1771	467,85	250	66,04
25	1700	449,09	240	63,40
26	1635	431,92	231	61,02
27	1574	415,81	222	58,65
28	1518	401,01	214	56,53
29	1466	387,28	207	54,68
30	1417	374,33	200	52,83
31	1371	362,18	194	51,25
32	1328	350,82	188	49,66
33	1288	340,25	182	48,08
34	1250	330,22	176	46,49
35	1214	320,70	171	45,17

SETTING UP THE WATER FILTERING SYSTEM SOFTWARE

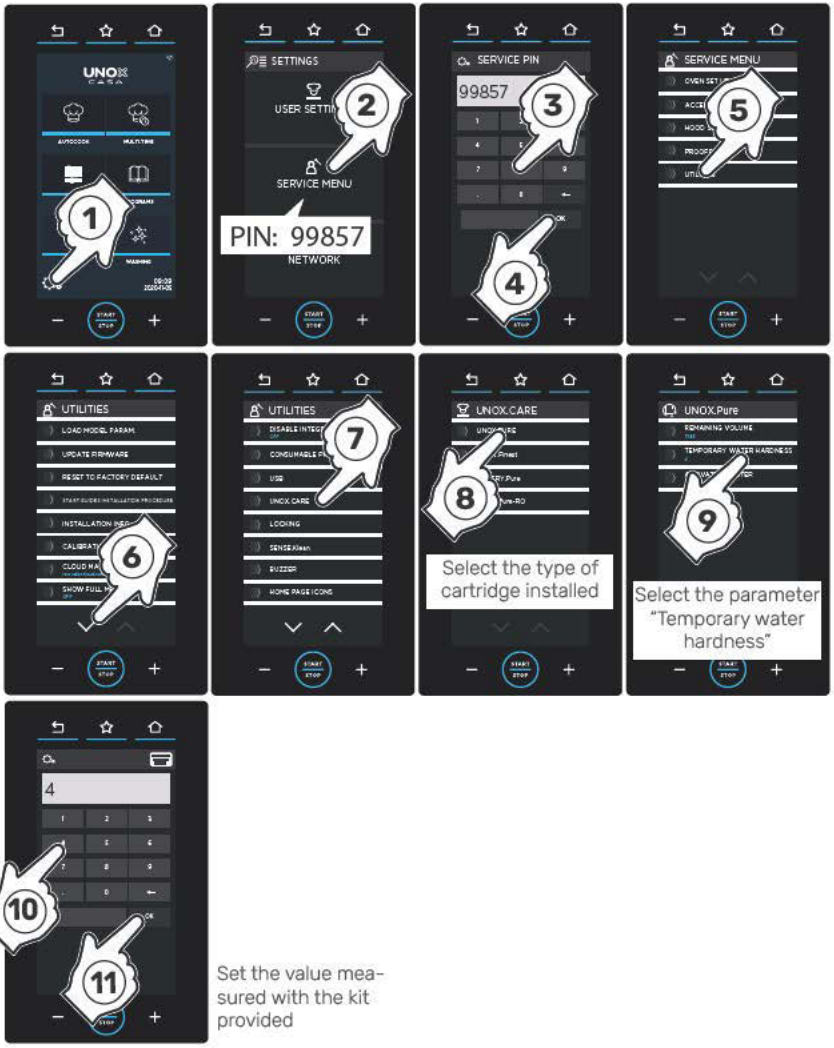
Dopo aver installato il filtering water system è necessario:

- Measuring and setting the water hardness: see page **45**
- Activating the litre counter: see page **47**.

Measuring and setting the water hardness



Measure the system water hardness in German degrees - °dH (taking it from a tap) using the supplied kit following the enclosed instructions. After measuring and recording the value, this needs to be set on your oven; the procedure is explained below.



When replacing the filter cartridge

Ovens are able to calculate the total amount of filtered water released inside the oven and signal when the filter need s to be replaced. The filter cartridge must be replaced:

- as soon as the filtering capacity has been reached (when a warning message is shown on the oven display);
- after 12 months, regardless of the number of litres dispensed;
- after 4 weeks of inactivity.

Once the maximum capacity has been reached, the PIN parameter (activation code) is set at zero (PIN = 0).

Caution: not replacing the filter cartridge, depending on the water hardness, may cause deposits of calcium and magnesium carbonates and heavy metals such as lead and copper to form inside the oven after 12 months of use at best.

Caution: when changing a filter cartridge, examine all remaining parts carefully. Faulty parts must be replaced and dirty parts must be cleaned.

Caution: before replacing parts, please read the operation and safety information carefully.

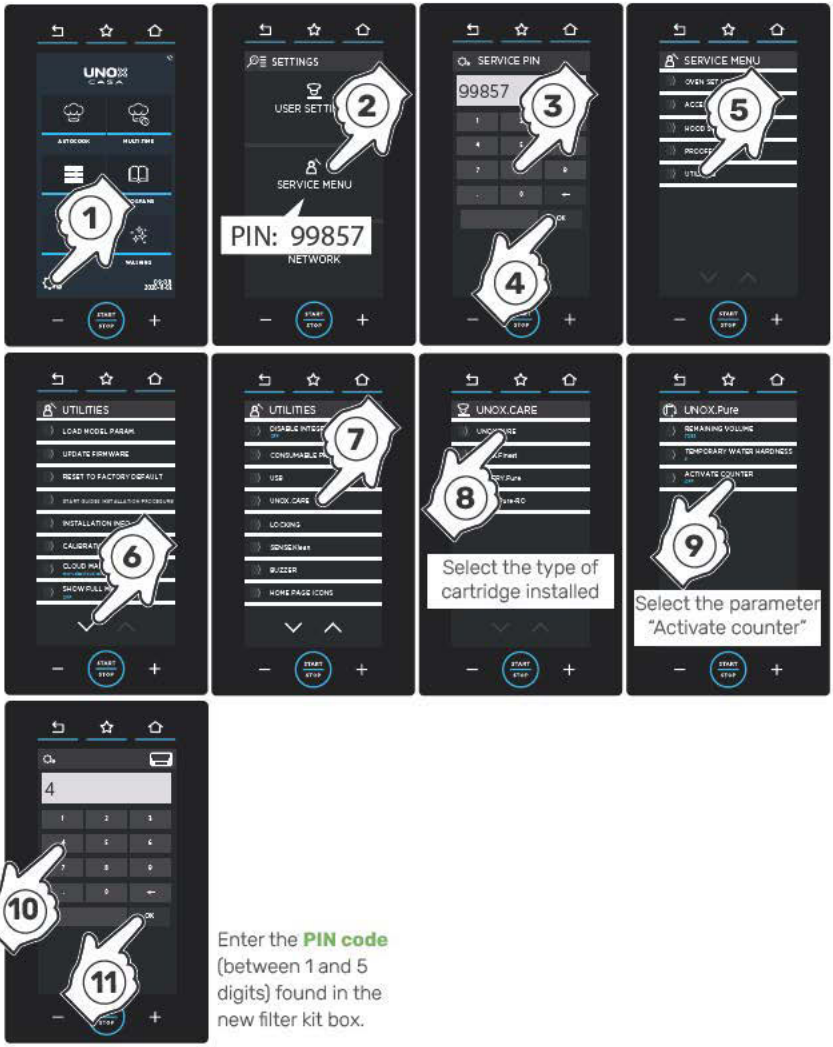
After storage and transport below 0 °C (32 °F), before commissioning, the product must be left in its original packaging, open, for at least 24 hours at the stated ambient temperature.

Viewing the residual litre count



Activating the litre counter

After installing or replacing the filter, reset the litre counter to restart the residual litre count.
To do this, enter the **PIN code** (between 1 and 5 digits) found in the new filter kit box.



Enter the **PIN code** (between 1 and 5 digits) found in the new filter kit box.

OUTGOING WATER

The drain is found in the rear connection compartment. Connect it to a rigid pipe or flexible hose and connect the assembly to the waste water drainage (UNOX recommends its own rigid or flexible pipes). The pipe can be rotated and adjusted according to the position of the room's drainage system.

Drainage specifications

The drainage system must:

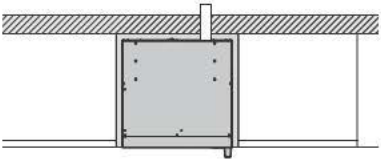
- be a siphon-type;
- be one meter in length maximum;
- have a minimum incline of 4%;
- have a diameter that is NOT less than the drain pipe attachment;
- be free of constrictions;
- be dedicated to each appliance; if this is not the case, make sure that the main drainage pipe is sized sufficiently to ensure that water flows away properly without any problems.

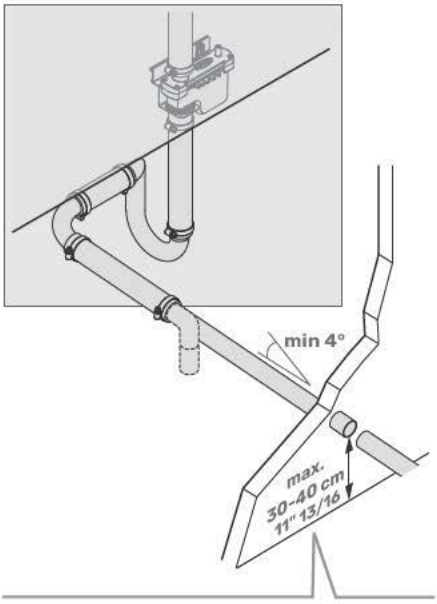
Refilling the syphons

Once installation is complete, pour at least 0.5 l (0.132 gal) into the drain of both the cooking cavities to fill the siphon.

The waste water draining from the oven may be hot. The pipes used for water drainage must be able to withstand high temperatures.

The drainage system must be situated **inside** the niche.

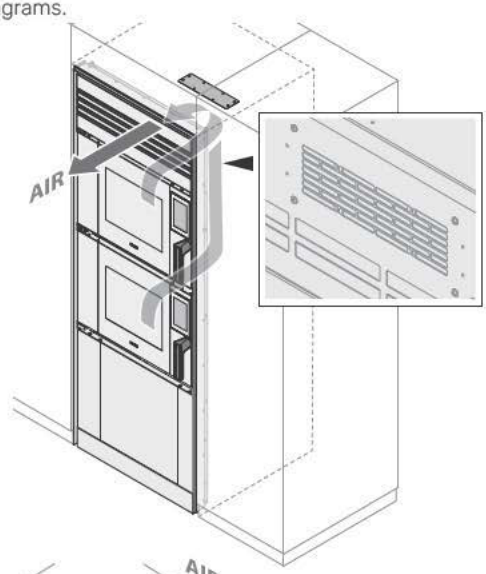




The oven drains under the force of gravity (no drainage pump is used). Ensure the recommended height is respected to ensure the oven drains correctly.

TYPE OF HOOD: FILTER HOOD AND EXTRACTOR HOOD

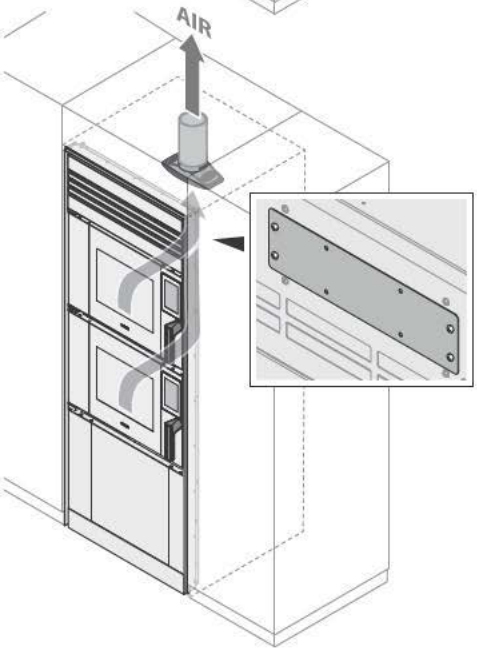
The equipment exits the factory with the hood in filtering version.
If necessary, with a few simple operations, it is possible to convert the hood to aspirated version.
The two possible versions are shown in the diagrams.



Filter hood

The models with a filter hood:
- aspire the air from the oven chamber
- filter the air
- reintroduce the air into the environment

To complete the installation, follow the instruction on pag. **50**. Then continue to the pag. **58**



Extractor hood

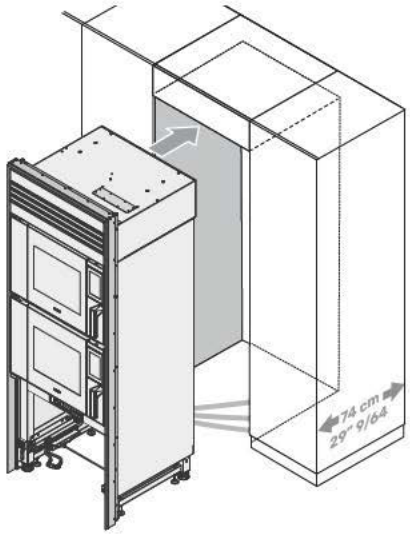
The models set for the extractor hood:
- aspire the air from the oven chamber
- evacuate outside the air through a chimney (supplied) and an exhaust pipe.

To complete the installation, follow the instruction from pag. **51** to pag. **57**.
Then continue to the pag. **58**

HOOD TECHNICAL SPECIFICATIONS	
Airflow capacity	Speed 1 - 340 m³/h Speed 2 - 530 m³/h
Emitted decibel	Filtering Speed 1 - 47 dBA Filtering Speed 2 - 63 dBA Extracting Speed 1 - 45 dBA Extracting Speed 2 - 57 dBA

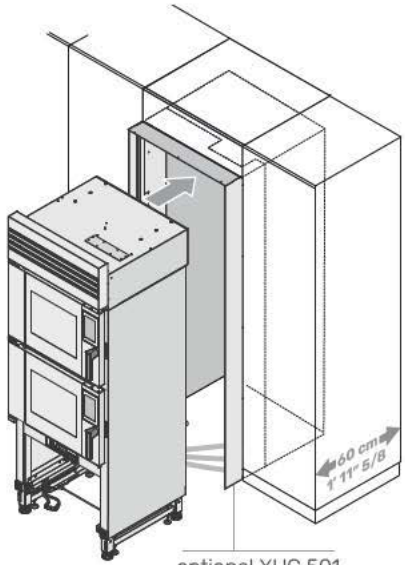
MODEL 1 WITH **FILTER HOOD** | Inserting the niche

Inserting the niche | flush-mount installation with XUC 502 frame



Inserting the column into a niche of
74 cm | 29" 9/64 deep

Inserting the niche | non-flush installation with XUC 501 frame (optional)

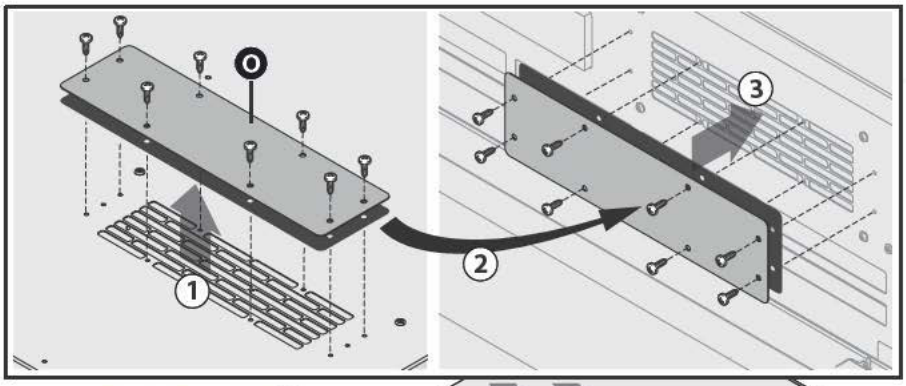


optional XUC 501 frame

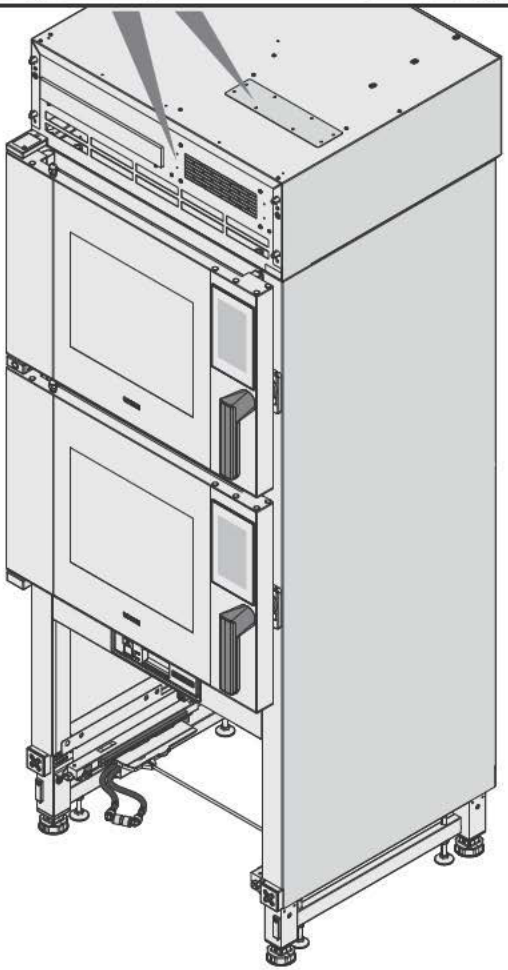
Inserting the column into a niche of
60 cm | 1' 11" 5/8 deep

Continue to pag. 58

MODEL 1 WITH **EXTRACTOR HOOD** | Moving the closing bracket

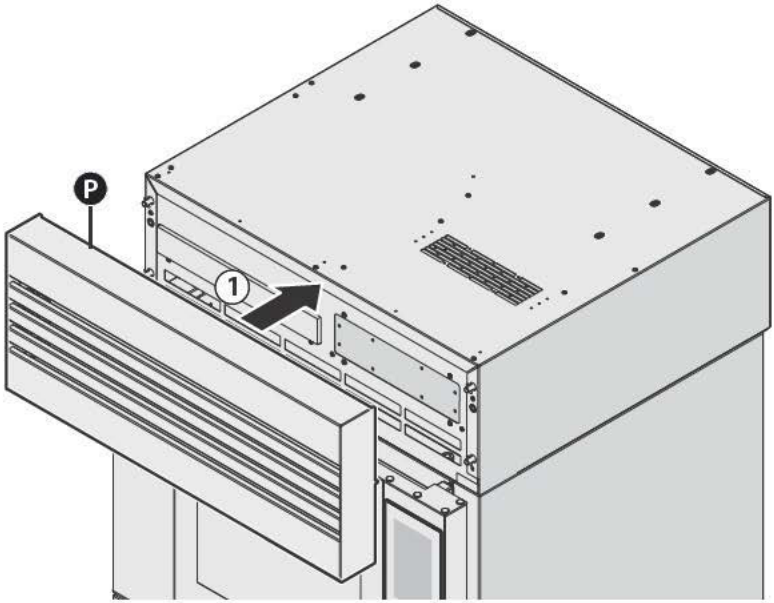


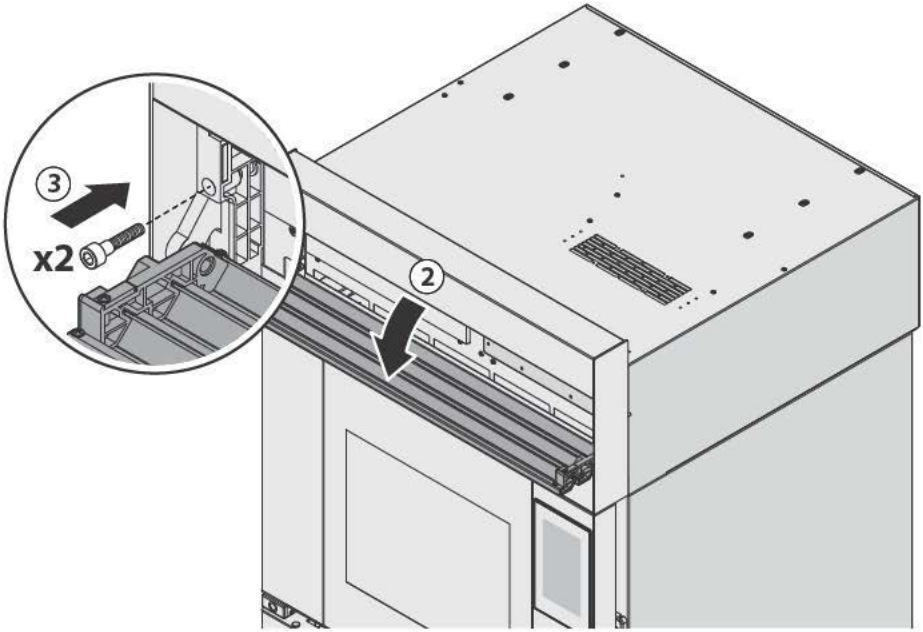
Move the **closing bracket** O from the upper hole to the front hole



MODEL 1 WITH **EXTRACTOR HOOD** | Mounting an fixing the front hood panel

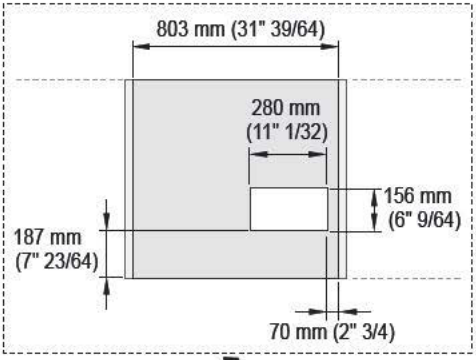
Mount the **front hood panel** (P). Use two cap screws to secure.



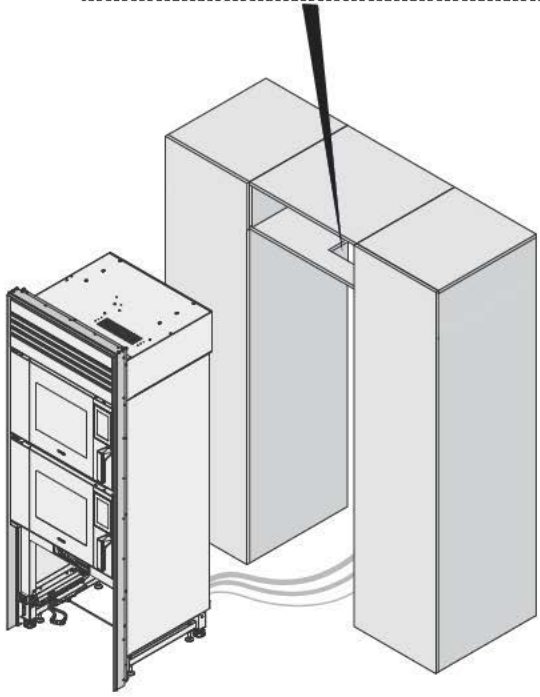


MODEL 1 WITH **EXTRACTOR HOOD** | Preparing the hole

UNOX Model 1
+ XUC502

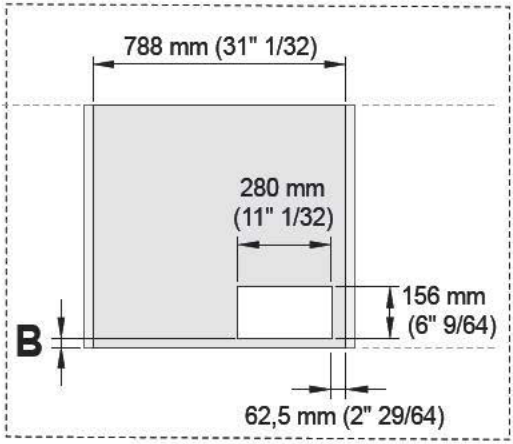


Prepare a hole on the upper panel of the niche.
The hole must respect the dimensions indicated in the drawing.



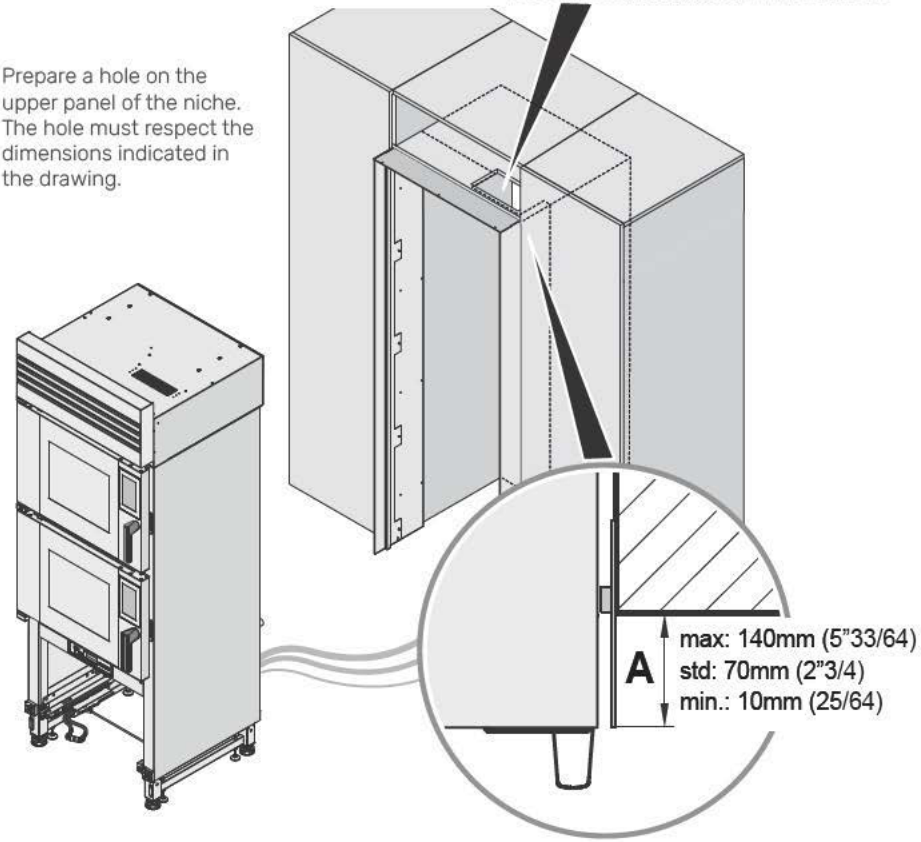
MODEL 1 WITH EXTRACTOR HOOD | Preparing the hole

UNOX Model 1
+ XUC501



A	B
140 (5"33/64)	47 (1" 27/32)
70 (2" 3/4)	117 (4" 39/64)
10 (25/64)	177 (6" 31/32")

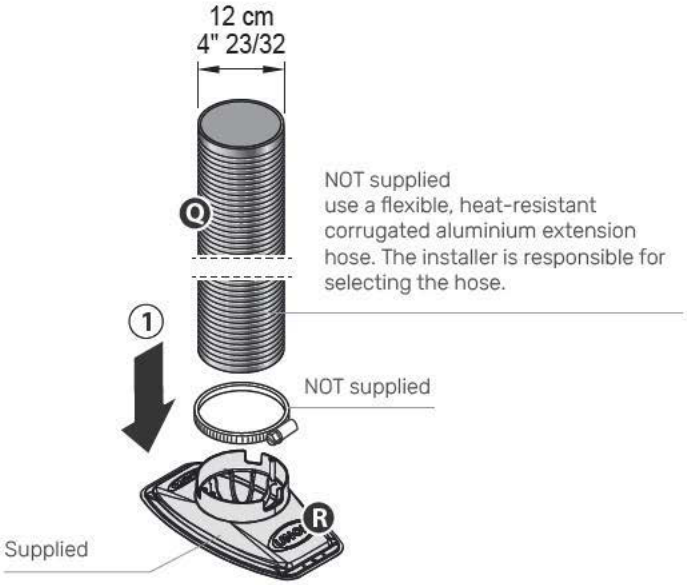
Prepare a hole on the upper panel of the niche. The hole must respect the dimensions indicated in the drawing.

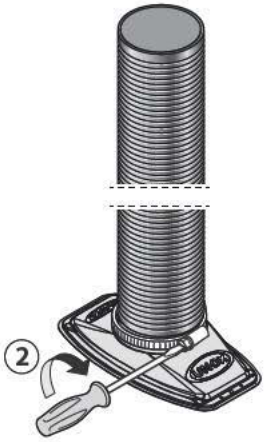


MODEL 1 WITH **EXTRACTOR HOOD** | Connecting chimney

(1) Insert the **exhaust pipe** Q (NOT supplied) to the **chimney** R (supplied).

(2) Connect the **exhaust pipe** Q to the **chimney** R with a stainless steel hose clamp.

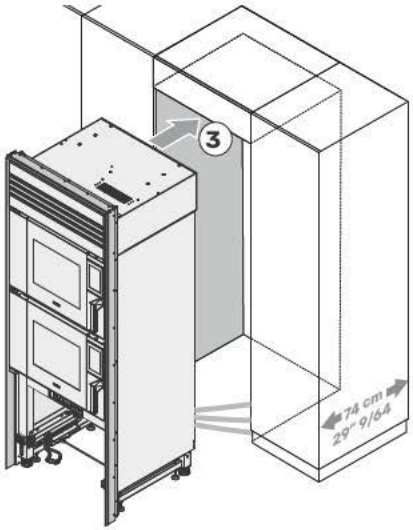




MODEL 1 WITH **EXTRACTOR HOOD** | Inserting the niche

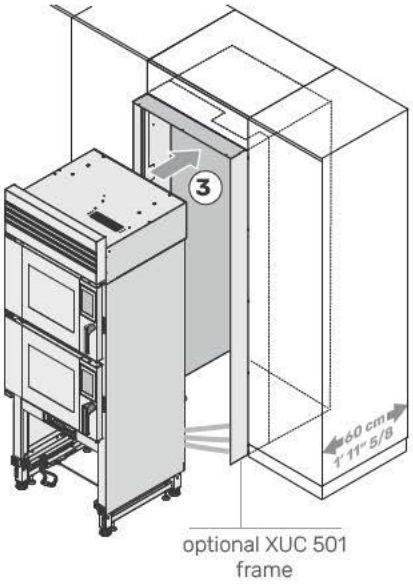
(3) Inserting the column into a niche.

Inserting the niche | flush-mount installation with XUC 502 frame



Inserting the column into a niche of
74 cm | 29" 9/64 deep

Inserting the niche | non-flush installation with XUC 501 frame (optional)

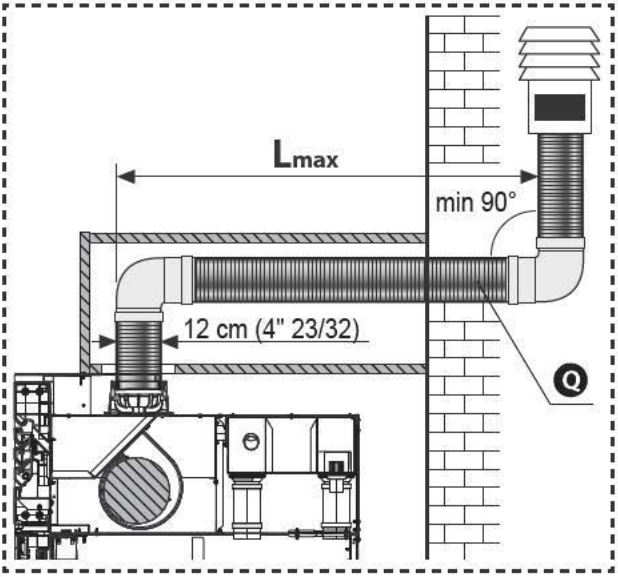


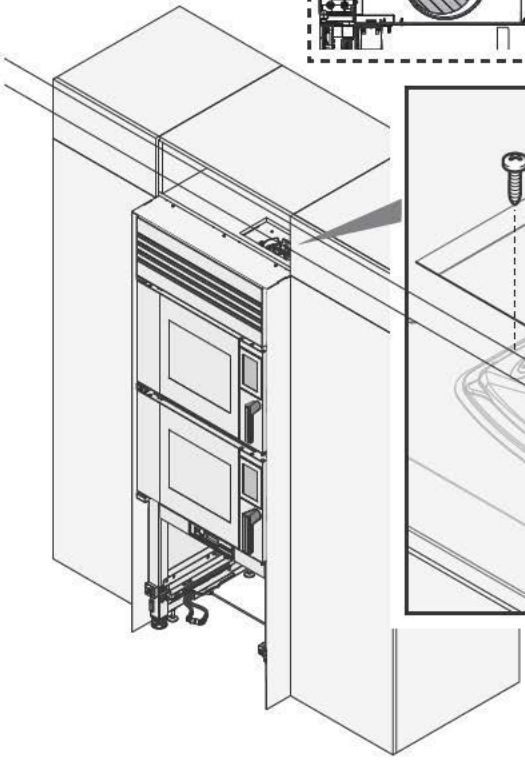
Inserting the column into a niche of
60 cm | 1' 11" 5/8 deep

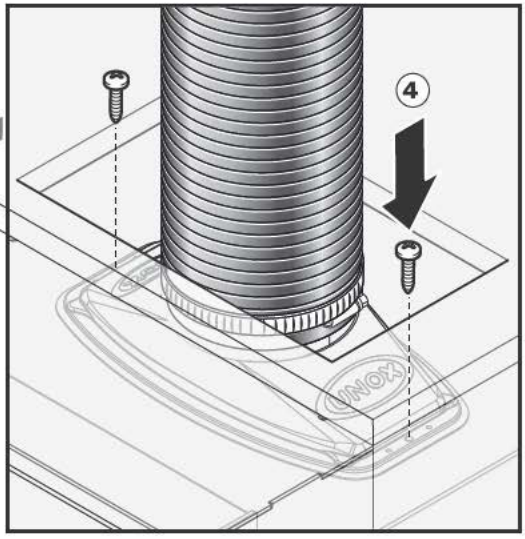
MODEL 1 WITH **EXTRACTOR HOOD** | Connecting exaust pipe

(4) Fix the **chimney** to the oven by passing through the hole on the upper panel.

Lmax: The maximum length of the **exhaust pipe** Q is 9 m | 354" 21/64. For each 90 dg ducting bend inserted, the length of **exhaust pipe** Q must be reduced by 1 m | 39" 3/8

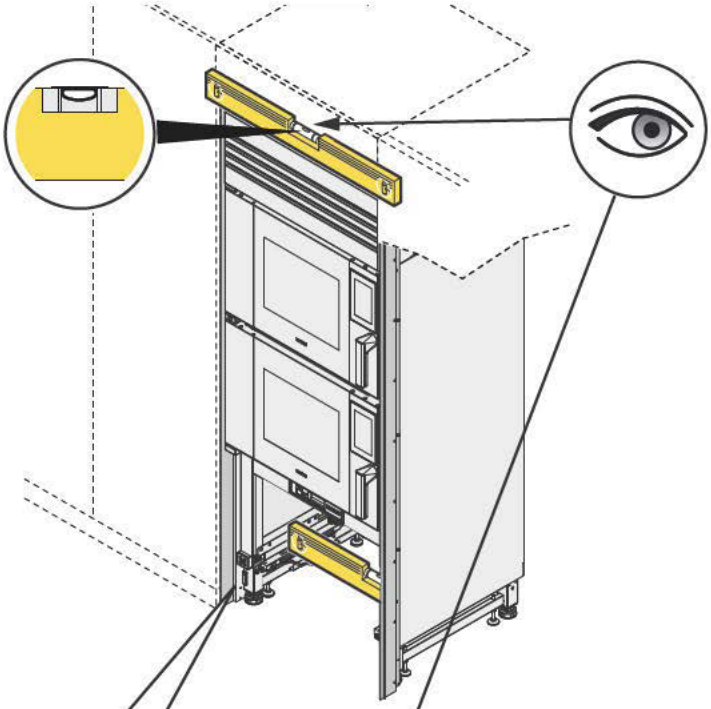


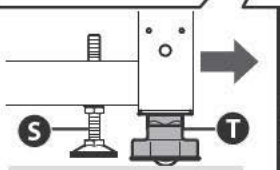




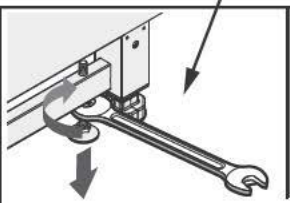
LEVELLING

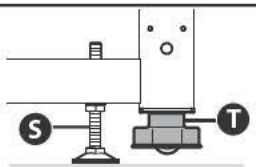
The appliances must be perfectly level.
Place a spirit level on the upper side of the appliance or on the lower side if they are recessed.
If needed, adjust the appliance height using the 4 anchored feet.





Ensure that the anchored feet **S** do not touch the floor. Insert the column into the niche, ensuring that the column runs on the wheels in the feet **T**.

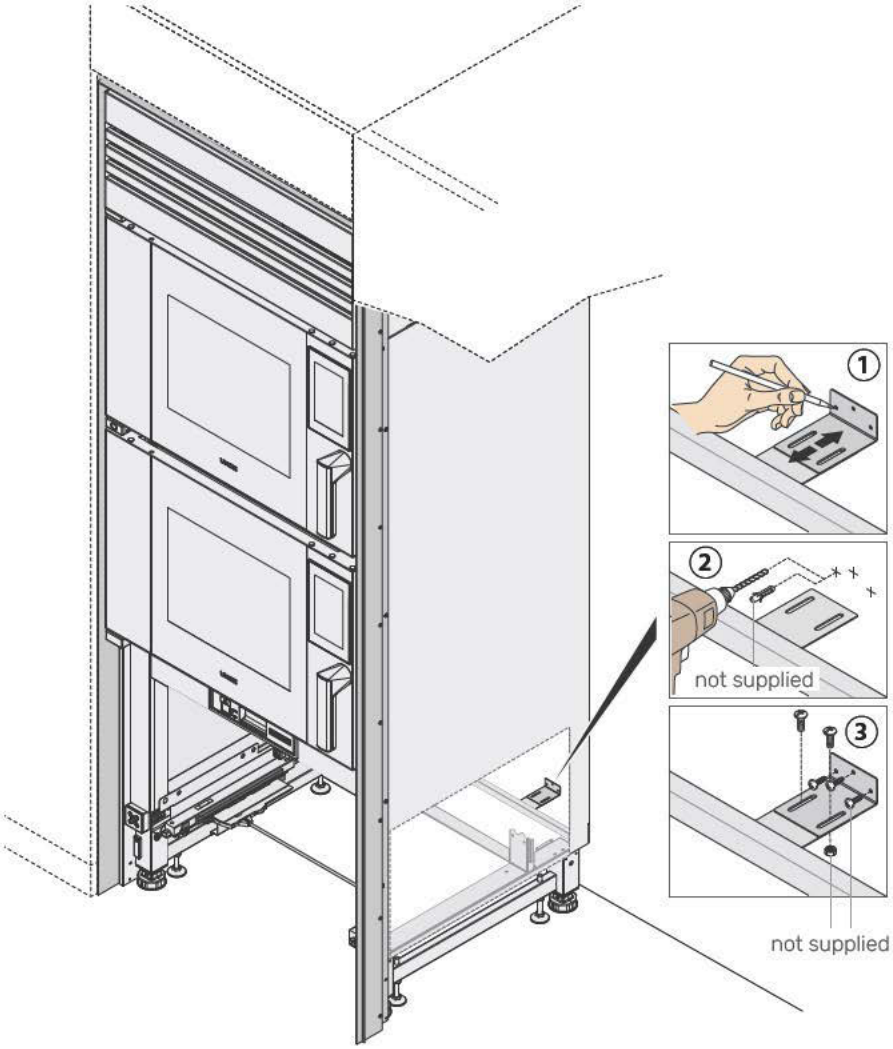




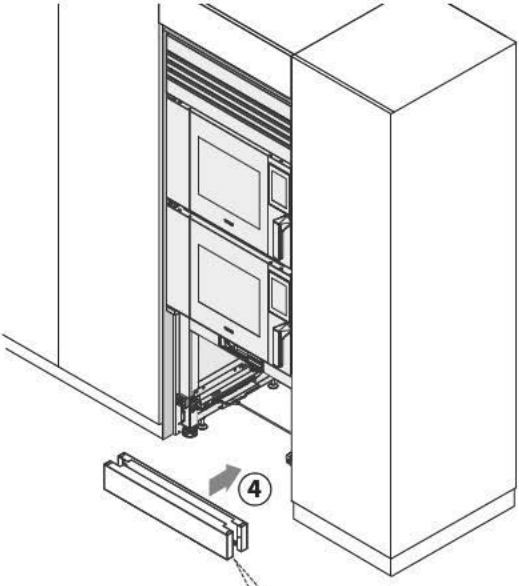
Once the column is in the niche, lower the anchored feet **S** and tighten the feet with wheels **T**.
Adjust the anchored feet to make the column level

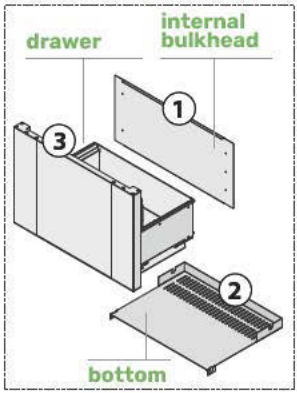
ATTACHING THE APPLIANCE TO THE WALL OR TO NEARBY UNITS

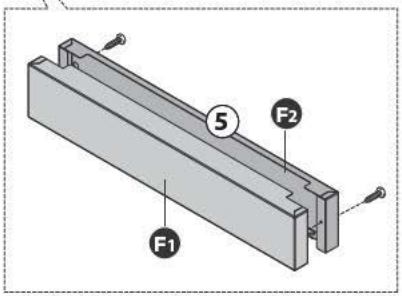
You **must** secure the column to the wall using the brackets supplied.
The screws for fastening the column to the wall are not supplied, since they vary depending on the type and material of the wall. Therefore, they must be supplied by the installer.



ADDITIONAL INFORMATION



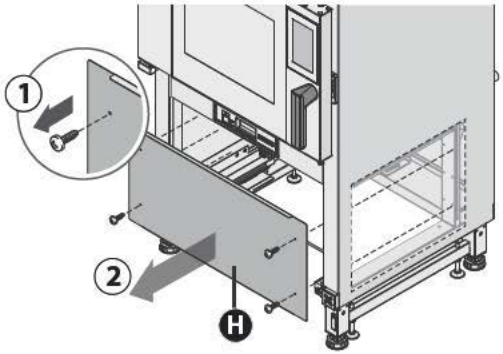




You can use one or both the front bases **F** provided. If you use both, you have to fasten them together.

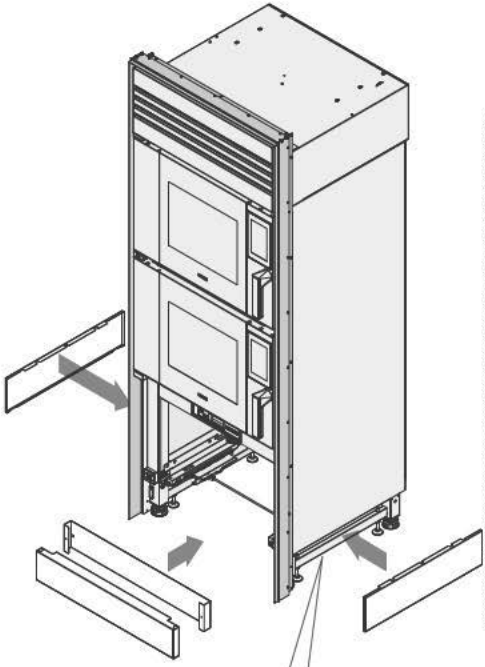
FOR MAINTENANCE

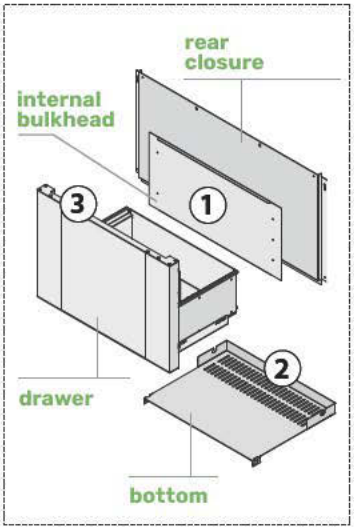
Remove the internal bulkhead **F** to access the electrical and water connections.

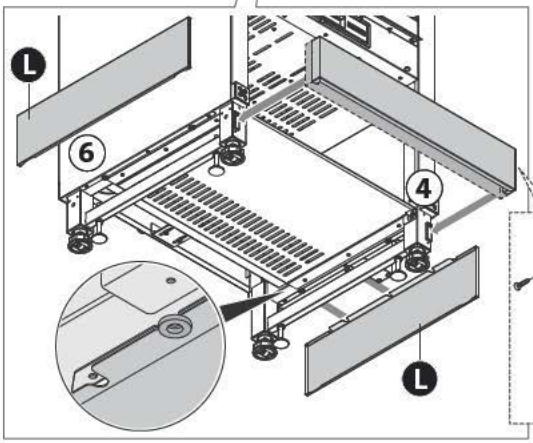


FREESTANDING MODEL 1 APPLIANCES ONLY

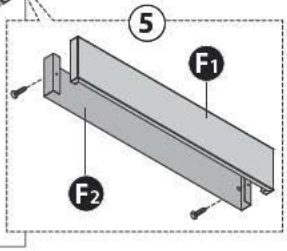
Remount the **internal bulkhead** (1), the **bottom** (2) and the **drawer** (3). The **rear closure** must be remounted only if the column is not secured to a wall.
(4) Connect the front bases (F) which are held in position by a magnet.
YOU can use one or both the front bases (F) provided. If you use both, you have to fasten them together (5).
(6) Complete installation connecting the side bases (L) magnetically.







YOU can use one or both the front bases (F) provided. If you use both, you have to fasten them together.

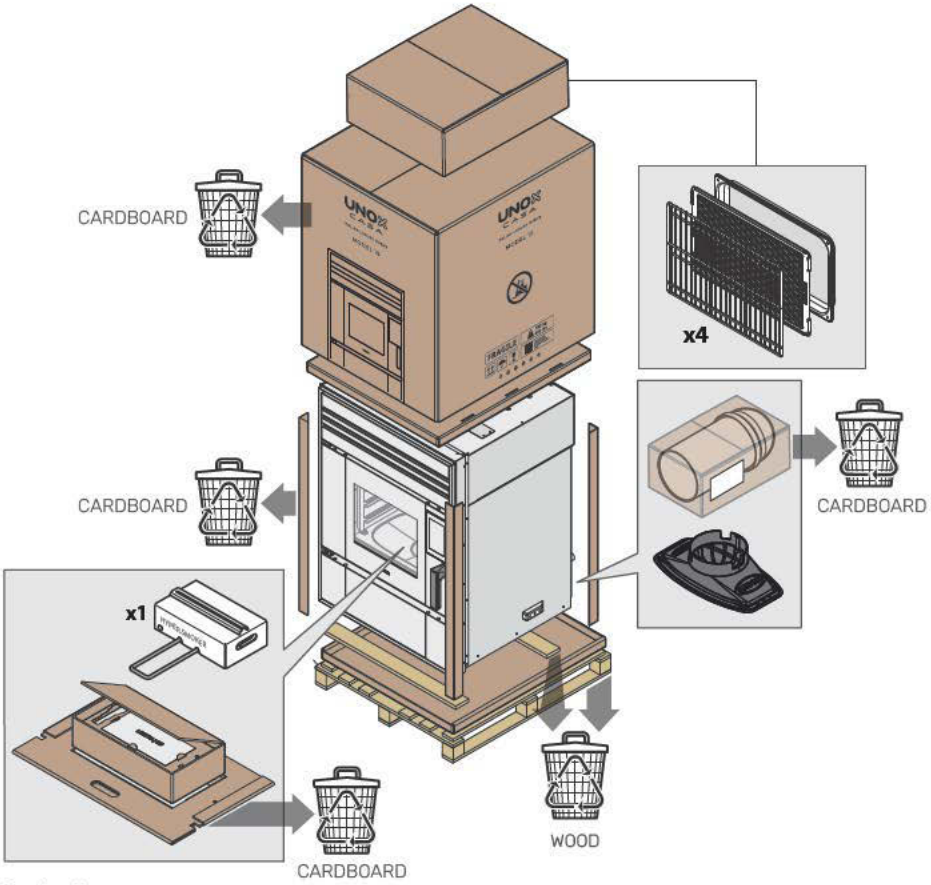




UNPACKING THE APPLIANCE

Unpack the appliance as shown in the figure.
The packaging material is potentially dangerous. It must be kept out of the reach of children and animals, and correctly disposed of in compliance with local regulations.

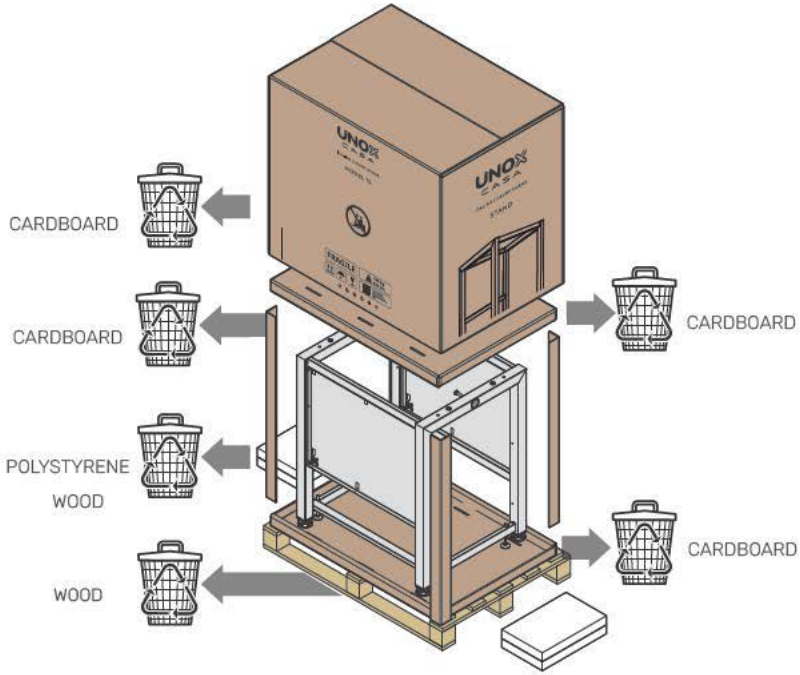
UNOX has followed the NON-STOP Efforts philosophy for years, to increase the environmental compatibility of its products and reduce energy consumption and waste. UNOX wishes to protect the environment and invites the consumer to dispose of waste in recycling bins.



Content may vary depending on the market.

STAND

Stand not included.
Accessory sold separately



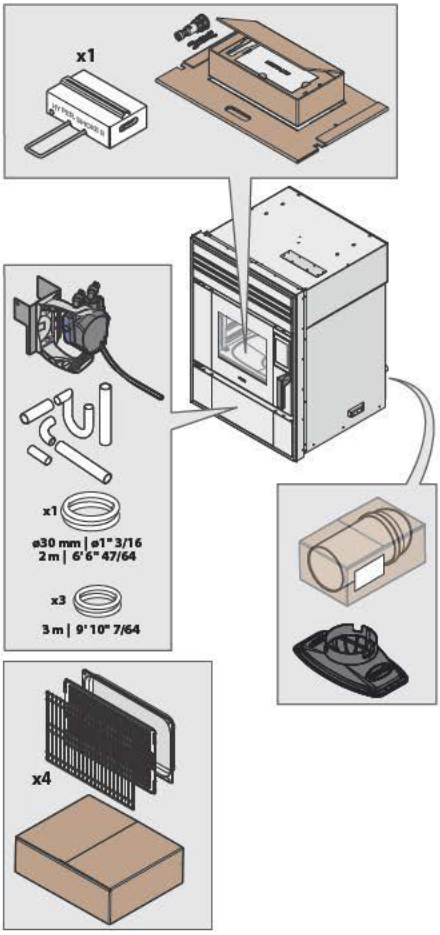
CHECKING PACKAGE CONTENTS

Before installing the appliance, check that the following components are included in the package and are undamaged. Please contact UNOX if a component is missing or damaged and do not proceed with the installation.

Package contents (content may vary depending on the market):

- Column for:
  - plumbing (water supply tube, mechanical filter, 3/4 fitting with non-return valve already assembled);
- 4 x screws for attaching the oven to the stand (if present);
- 1 x Water filter system
- Cooking Essentials: Unox Casa trays.
  - BLACK.FRY - GRP818;
  - GRILL - TG882;
  - BLACK.40 - TG902;
  - STEEL.GRID - GPR807.
- 1 x Hyper Smoker kit;
- Technical documents (use and installation manual, "Technical specifications" sheet);
- General documentation: Quick guide, flyer marketing.

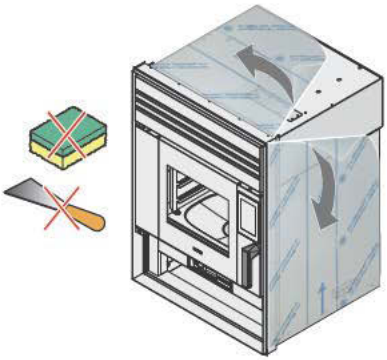
NOTE: the power cable is NOT provided; set-up depends on the chosen configuration (please see the technical data sheets). Please also consider the length of the cable connecting to the socket located outside of the recessed compartment.



GETTING STARTED

REMOVING PROTECTIVE FILMS

Remove the protective films from the appliance. Clean any glue residue with appropriate solvents without using tools, abrasive detergents or acids that could spoil the surfaces. The protective films are potentially dangerous and must be kept out of the reach of children and animals, and correctly disposed of in compliance with local regulations.



POSITIONING

VERIFICATION OF THE INSTALLATION

AREA'S FEATURES

Install the appliance in areas:

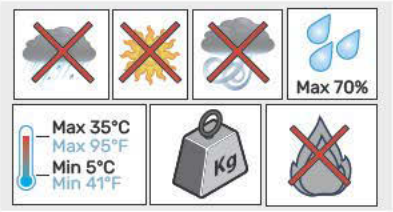
- specific for this purpose and compliant for cooking foods;
- that are adequately ventilated;
- that comply with the laws in your country regarding system safety;
- protected from the weather;
- with temperatures from +5°C to +35°C (+41°F to +95°F) maximum;
- that have maximum humidity of 70%;
- with flooring to support the weight of the appliance when fully loaded (please see the table below).

Ovens must exclusively be set on floors that meet the following requirements:

- be flame and heat resistant;
- be perfectly level;
- have a flat and even surface;
- be able to support the appliance weight at full load without undergoing deformation or structural failure.

Do not install the appliance near other appliances that reach high temperatures, to avoid damaging electrical parts. Do not insert cupboards above the cooking column.

Model	Dimensions (WxDxH)	Weight	Distance between trays	Max food load
MODEL 1S without stand	800x 740x 1096 mm 31" 1/2 x 29" 9/64 x 43" 5/32	136 kg | 299.8 lbs	80 mm 3" 5/32	20 kg + 20 kg 44.1 lbs + 44.1 lbs
MODEL 1S with stand	800x 740x 1986 mm 31" 1/2 x 29" 9/64 x 78" 3/16	Oven: 136 kg | 299.8 lbs Frame: 20 kg | 44.1 lbs		20 kg + 20 kg 44.1 lbs + 44.1 lbs



For additional technical information on the appliance, please see the "Technical specifications" sheet.
On this page you may download "Technical specifications" sheets of the products: https://www.unoxcasa.com/int/useful-resources/downloads/

VERIFICATION OF THE INSTALLATION AREA'S SYSTEMS

The installation areas must be equipped with electrical and plumbing systems that comply with the regulations on systems and occupational safety in the country of use.

Required connections:

A B plumbing connection | incoming water

The appliance is provided with a fitting (3/4") A with a non-return valve for plumbing, 3 m | 9' 10" 7/64 of tubing for the connection to the water inlet, a mechanical filter, a pressure reducer and a water filtering system. The maximum inlet water pressure shall be 0.15-1 MPa / 1.5-10 bar / 21-145 psi. We recommend installing a shut-off valve B (not supplied). The plumbing connection A and the shut-off valve B must be set **upoutside** the niche, so that they can be accessed easily.

C liquid drain | outgoing water

The appliances in the connection compartment are provided with a drainage pipe C (38 mm | 1" 1/2 outer ø, 30 mm | 1" 3/16 inner ø). For further information on the features of the drain, please see page **78**. Place the liquid drain outside the niche.

D E electrical connections | supply (For additional information, see page **72**).

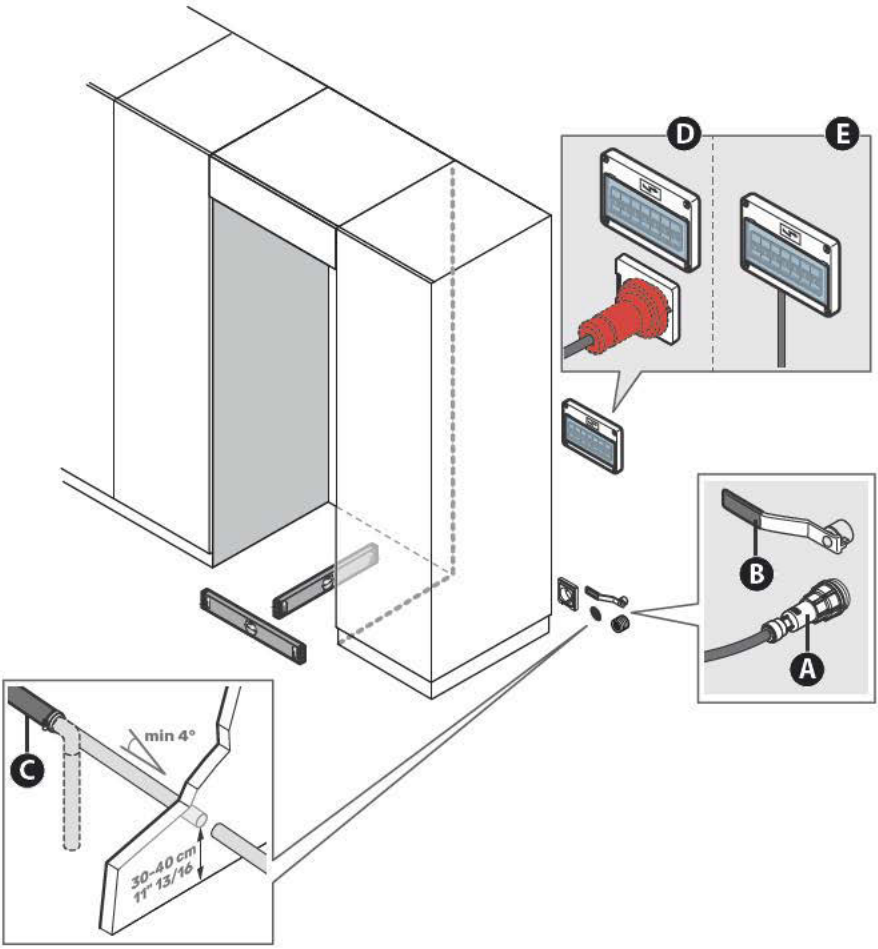
A qualified installer should fit a cable and plug (not provided) of a size and type suitable for the appliance, based on the data in the table on page **74** or on the "Technical specifications" sheet.

To connect the appliance:

- **D fit an appropriate plug onto the cable** and **ensure there is an electric panel** to disconnect the socket used for the appliance, or
- **E install an electric panel** and connect the appliance cable directly to it
  - The plug:
    - is NOT supplied (the installer is responsible for selecting an appropriate plug)
    - must be set up outside the niche, as needed.
  - The electric panel:
    - is NOT supplied (the installer is responsible for selecting it)
    - must be placed outside the niche, so that the appliance power supply can be easily shut off, if required
    - must respect the regulations in force in the country in which the appliance is installed.

For additional technical information on the dimensions of the niche to be prepared, please see the "Technical specifications" sheet.

On this page you may download "Technical specifications" sheets of the products
https://www.unoxcasa.com/int/useful-resources/downloads/


D
E
B
A
C
min 4°
30-40 cm
11" 13/16

PREPARING THE APPLIANCE

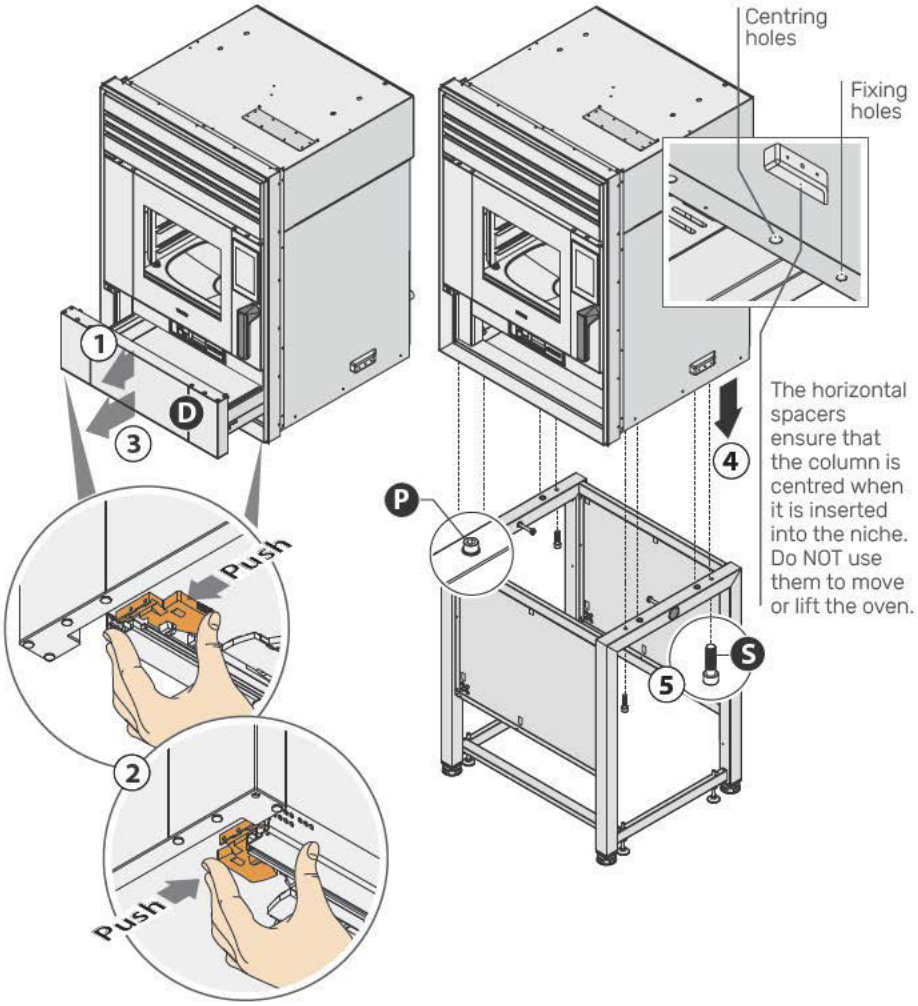
ATTACHING THE OVEN TO THE BOTTOM STAND

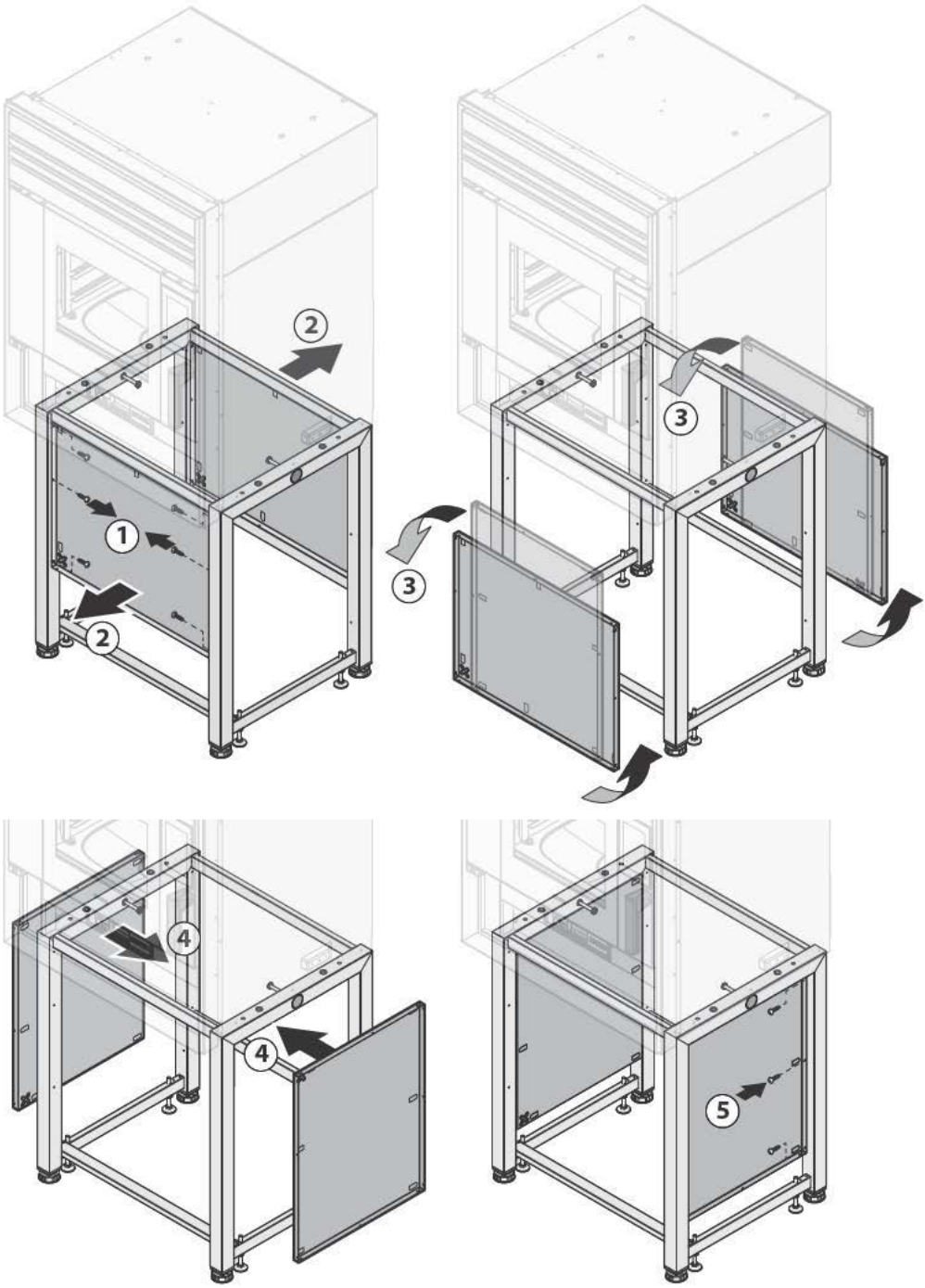
Attach the oven to the lower stand, as indicated in the diagram:

(1)(2)(3) removing the **drawer** (D);

(4) position the oven so that the holes at the bottom of the oven line up with the **pins** (P) in the stand;

(5) lock the oven in place with the four **screws** (S) provided.

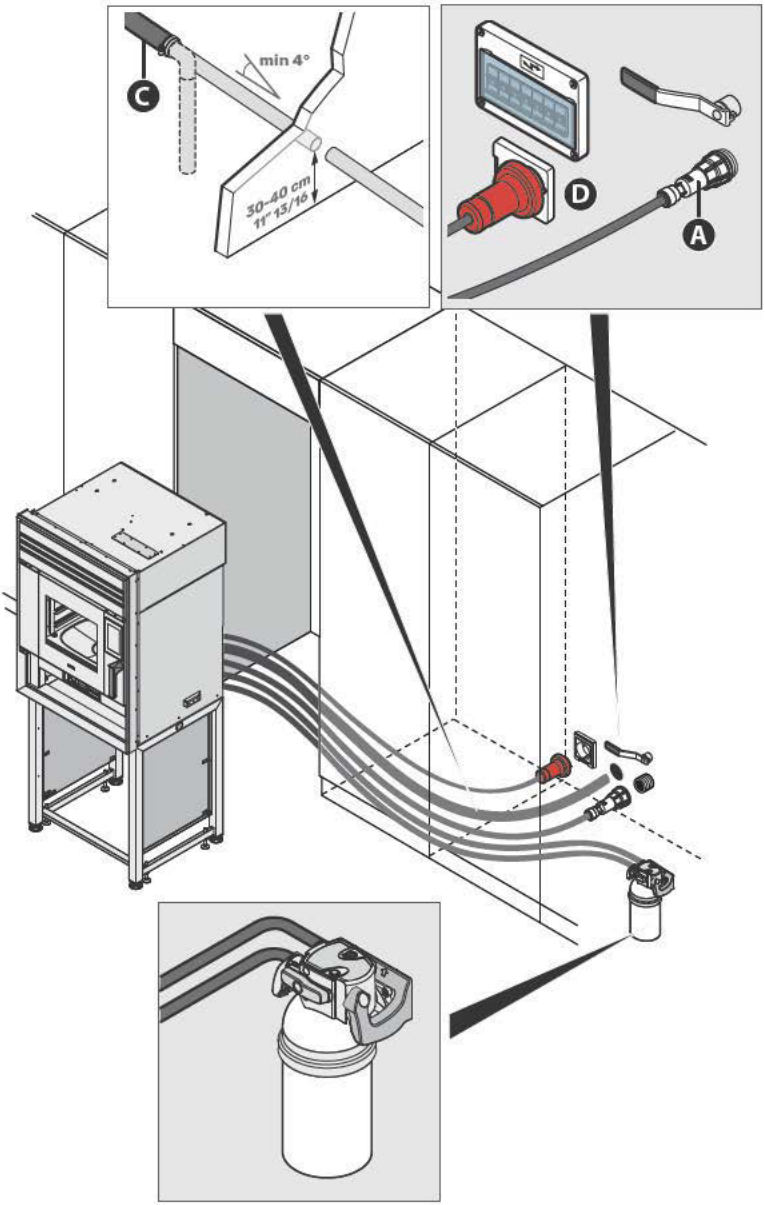



2
1
2
3
3
4
4
5

ATTACHING THE COLUMN

Make all the connections:

- **electrical** D (see page **72**).
- **incoming water** A (see page **75**);
- **outgoing water** C (see page **78**).



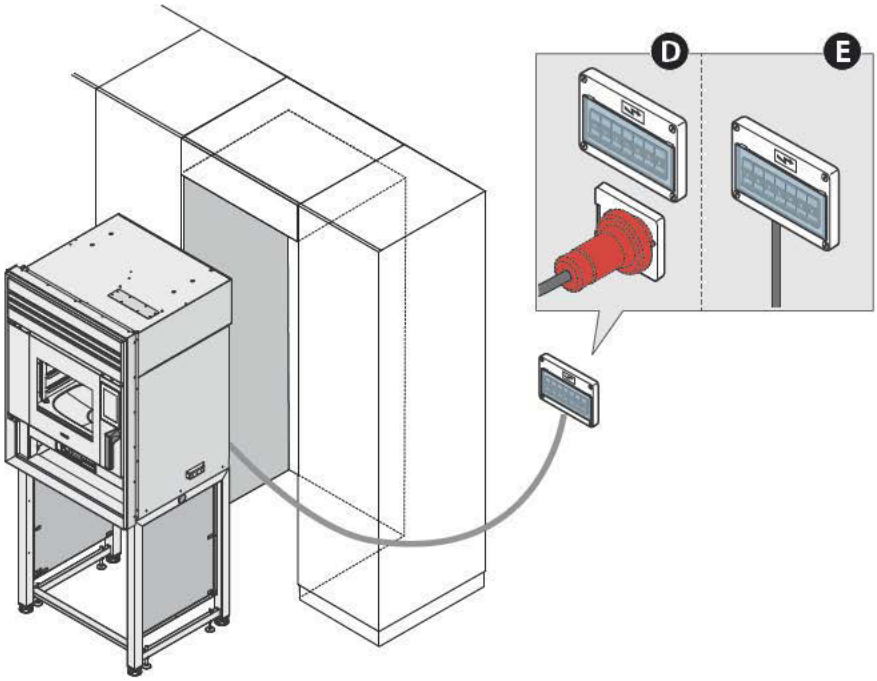
ELECTRICAL CONNECTIONS

Before connecting the appliance, please read the "**Safety information for installing the appliance**" section on page **5** carefully.

A qualified installer should fit a cable and plug (not provided) of a size and type suitable for the appliance, based on the data in the table on page **74** or on the "Technical specifications" sheet.
To connect the appliance:

- **D** **fit an appropriate plug onto the cable** and **ensure there is an electric panel** to disconnect the socket used for the appliance, or
- **E** **install an electric panel** and connect the appliance cable directly to it
  - The plug:
    - is NOT supplied (the installer is responsible for selecting an appropriate plug)
    - can be inside or outside the niche, as needed.
  - The electric panel:
    - is NOT supplied (the installer is responsible for selecting it)
    - must be placed outside the niche, so that the appliance power supply can be easily shut off, if required
    - must respect the regulations in force in the country in which the appliance is installed.

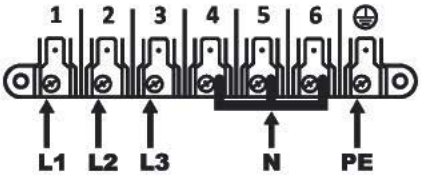
Make sure that the plug is accessible even once installation is complete.
The fixed wiring connected to the appliance must include a device that provides all-pole disconnection under overvoltage category III conditions, as per wiring rules



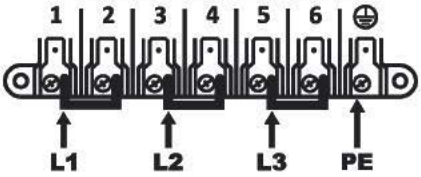
EU market

Internal terminal block connection diagram (the cable is already attached in factory)

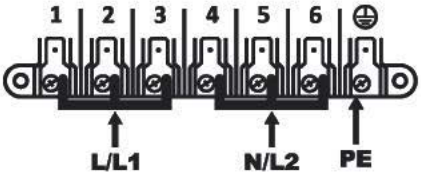
380-415V ~ 3PH + N + PE 50/60Hz



220-240V ~ 3PH + PE 50/60Hz



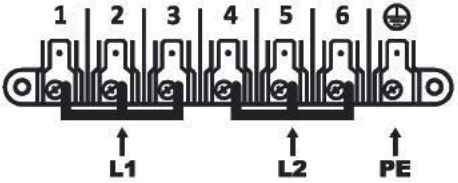
220-240V ~ 1PH + N + PE 50/60Hz
220-240V ~ 2PH + PE 50/60Hz



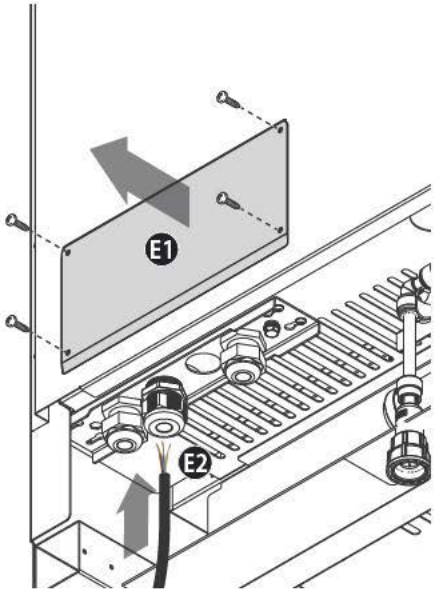
UL market

Internal terminal block connection diagram. The installer must remove the rear oven panel E1, pass the cable through the cable run E2 and attach it to the internal terminal block. The electric cable is NOT supplied (the installer is responsible for selecting it).

208-240V ~ 2PH + PE 60Hz



USE ONLY COPPER WIRE



Checks

The copper jumper on the terminal board and the electrical cable must be fastened together under the screw in its tightening direction, and the electrical connections must be securely tightened before connecting the appliance to the electricity mains.
Check for any electrical dispersion between the phases and the earth, and for electrical continuity between the external casing and the mains earth.
Check that the power supply voltage does not deviate from the nominal voltage specified on the appliance ratings plate when the appliance is operating. If it does, wire the phases as specified on the "Technical specifications" sheet supplied

Replacing the power supply cable

The cable must be replaced by UNOX, the UNOX technical assistance service or, in any case, by a person with a similar role in order to prevent any risks. Follow the procedures below to replace the power supply cable:

- remove the rear oven panel and remove the cable by detaching it from the terminal block;
- see the "Technical specifications" sheet (Power supply - Connection Diagram) which shows all of the possible wiring diagrams and the new cable spec according to the chosen connection (Cable Type);
- secure the new cable using the cable clamp;
- close the rear panel of the oven.

Electrical data

	MODEL 1S XEVH-0511-EPRM			MODEL 1S XAVH-0511-EPRM	
Voltage	380-415 V	220-240 V	220-240 V	240 V	208 V
Phase	~3PH+N+PE	~3PH+PE	~1PH+PE	~2PH+PE	~2PH+PE
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	60 Hz	60 Hz
Total power	6.2 kW	6.2 kW	6.2 kW	6.7 kW	5.2 kW
Maximum absorbed current (Ampere)	11.5 A	17.5 A	27 A	28 A	25 A
Dimensions of the differential circuit-breaker	16 A	32 A	32 A	35 A	30 A
Power supply cable requirements	H07RN-F 5G2.5 mm²	H07RN-F 4G4 mm²	H07RN-F 3G4 mm²	3 x AWG 8*	3 x AWG 10*
Power supply cable diameter (already installed)	14 mm 35/64	14 mm 35/64	14 mm 35/64	NOT included	NOT included
Power cable length	2 m | 6' 6" 47/64			suggested 1.5 m | 4' 11" 1/16	
Plug	NOT included	NOT included	NOT included	NOT included	NOT included

*Recommended size - observe local ordinance.

INCOMING WATER

The appliance in the connection compartment is provided with:
A a (3/4") fitting with non-return valve and a mechanical filter for plumbing;
B a 3 m | 9' 10" 7/64 hose for the connection to the water supply;
C a pressure reducer;
D anti-scale magnets;
E an integrated water filtering system (to be replaced every 12 months by a qualified and authorised UNOX technician).

The incoming water is divided between the:

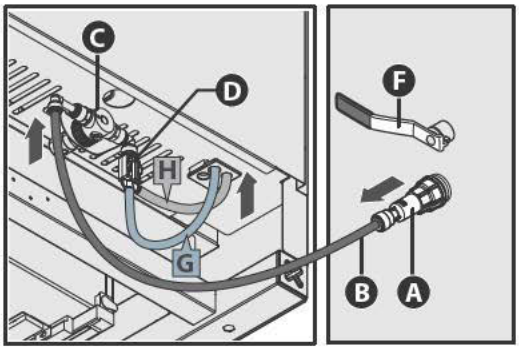
- **G** WASH circuit (non-decalcified water)
- **H** STEAM circuit (decalcified water).

Before connecting the water pipe to the appliance, flush out the pipe with water to eliminate any residues. Use the set of new couplings (provided with the appliance) to connect the appliance to the water mains. Do not re-use previously used couplings.

The ovens come with pre-made connections, except for the incoming water supply, which needs a 3/4" fitting **A**.

A shut-off valve **F** should be positioned between the water supply and the appliance outside the connection compartment so it can be easily accessible.

NOTE: where necessary, disconnect and reconnect the pipes for easy access to the technical compartment.



Water circuit without a water filtering system

Inlet water characteristics

The incoming water is divided between the:

- G WASH circuit (non-decalcified water)
- H STEAM circuit (decalcified water).

Regardless of its use, it must:

- have a maximum temperature of 30°C | 86°F;
- be drinkable;
- have a pressure value ranging between 1.5 bar and 6 bar, recommended 2 bar (21 psi and 87 psi - recommended 29 psi | 144790 Pa and 599844 Pa, reccomended 199948). If the pressure of the incoming water is lower than the minimum value, you must install a pump (minimum flow rate: 300 l/h | 79,25 gallons per hour). All ovens come with an integrated pressure reducer as standard;
- have maximum conductivity of 1000 µS/cm. If the water conductivity exceeds 1000 µS/cm, the water used for producing steam must be treated.

In addition to these characteristics, the incoming water must respect all the parameters specified below. This applies both to the WASH circuit and the STEAM circuit. If the water values differ from those shown below, treat the incoming water properly to bring the values within the limits indicated for each circuit. For appliances connected to a water source using detachable hose assemblies, use the new hose assembly provided with the appliance. Old hose assemblies must not be reused.

> Pressure surges can cause the oven's water system to malfunction. If the pressure reading during installation is close to maximum, install a pressure reducer. Damage caused by pressure surges is not covered by the warranty.

WASH circuit

The incoming water used for the WASH circuit must have the following chemical/physical characteristics:

- Free chlorine ≤ 0.1 ppm | 0.000016 oz/gal
- Chloramine ≤ 0.1 ppm | 0.000016 oz/gal
- pH 7-8.5
- TDS ≤ 125 ppm | 0.02 oz/gal
- Total hardness (TH) ≤ 30 °dH (534 ppm)
- Chlorides ≤ 120 ppm | 0.019 oz/gal

STEAM circuit

To avoid corrosion and the formation of limescale, the incoming water used for the STEAM circuit must have the following chemical/physical characteristics:

- Free chlorine ≤ 0.1 ppm | 0.000016 oz/gal
- Chloramine ≤ 0.1 ppm | 0.000016 oz/gal
- pH 7-8.5
- TDS ≤ 125 ppm | 0.02 oz/gal
- Total hardness* (TH) ≤ 8 °dH
- Electrical conductivity ≤ 1000 µS/cm
- Chlorides** ≤ 25 ppm | 0.004oz/gal

* hardness measured using the KSTR1082A kit

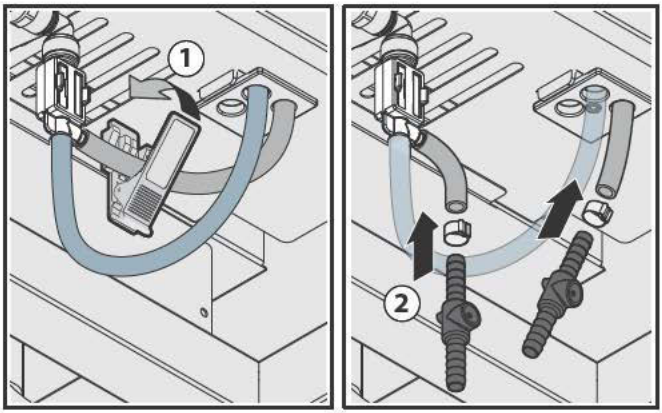
** The maximum chloride content, Cl-, is not a fixed value; it depends on the calculated Non Hardness Measurement (NHM)

INSTALLING THE WATER FILTERING SYSTEM

In these models, the water filtering system is not integrated into the column.

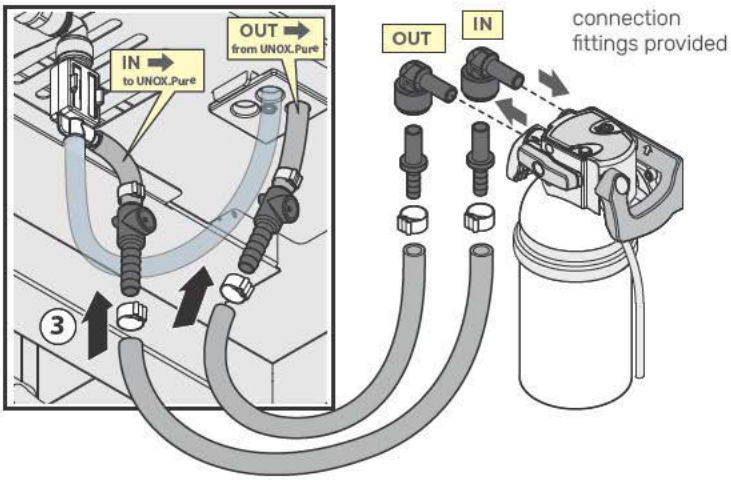
(1) To install it, cut the supply pipe H (STEAM circuit).

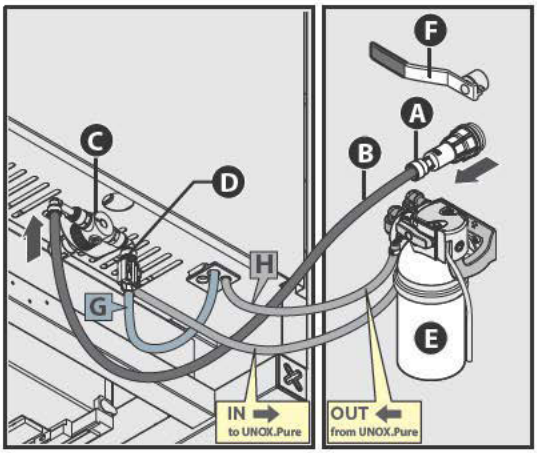
(2) Then install the filter, using the fittings provided where necessary.



(3) Make sure that you insert the pipes in the correct direction:

- **IN** – water entering the filter (not yet decalcified)
- **OUT** – water leaving the filter (decalcified).





Water circuit with a water filtering system installed

For legend refers to pag. **75**

OUTGOING WATER

The drain is found in the rear connection compartment. Connect it to a rigid pipe or flexible hose and connect the assembly to the waste water drainage (UNOX recommends its own rigid or flexible pipes). The pipe can be rotated and adjusted according to the position of the room's drainage system.

Drainage specifications

The drainage system must:

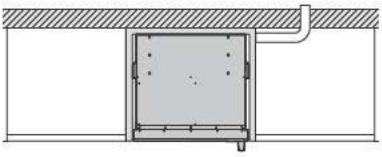
- be a siphon-type;
- be one meter in length maximum;
- have a minimum incline of 4%;
- have a diameter that is NOT less than the drain pipe attachment;
- be free of constrictions;
- be dedicated to each appliance; if this is not the case, make sure that the main drainage pipe is sized sufficiently to ensure that water flows away properly without any problems.

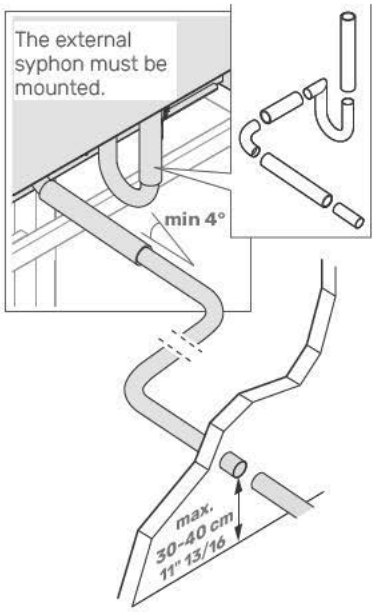
Refilling the syphons

Once installation is complete, pour at least 0.5 l (0.132 gal) into the drain of both the cooking cavities to fill the siphon.

The waste water draining from the oven may be hot. The pipes used for water drainage must be able to withstand high temperatures.

The drainage system must be situated **outside** the niche.





TYPE OF HOOD: FILTER HOOD AND EXTRACTOR HOOD

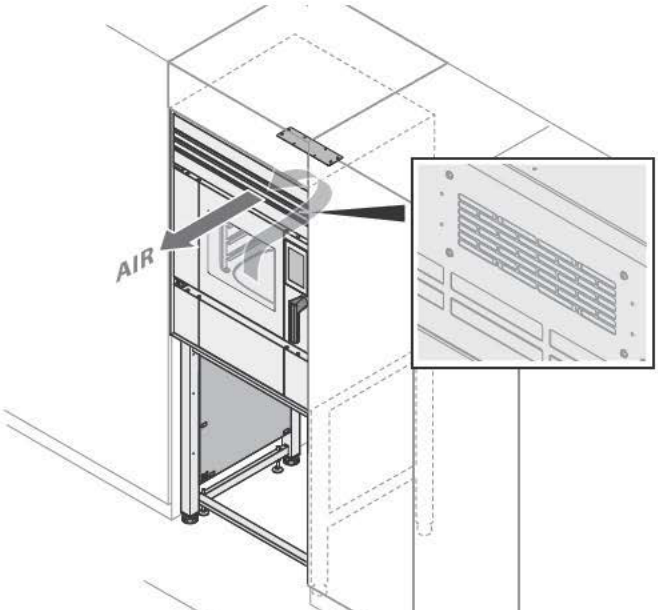
The equipment exits the factory with the hood in filtering version.
If necessary, with a few simple operations, it is possible to convert the hood to aspirated version. The two possible versions are shown in the diagrams.

FILTER HOOD

The models with a filter hood:

- aspire the air from the oven chamber
- filter the air
- reintroduce the air into the environment

To complete the installation, follow the instruction on pag. **80**. Then continue to the pag. **86**

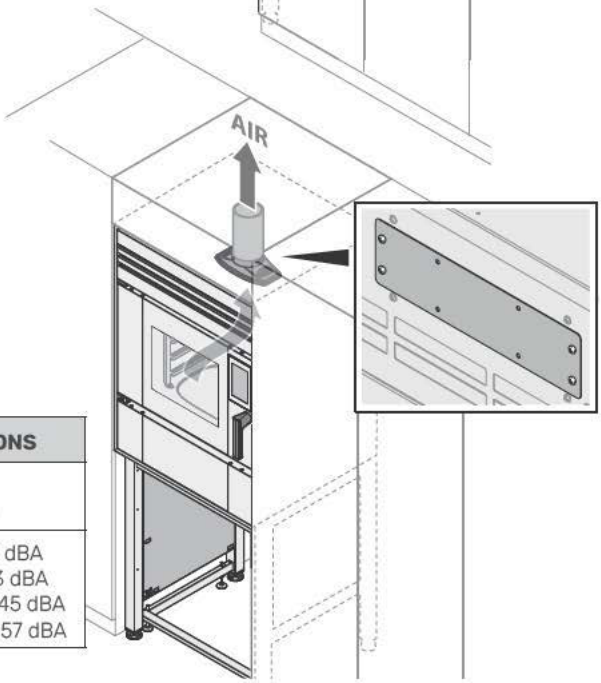


EXTRACTOR HOOD

The models set for the extractor hood:

- aspire the air from the oven chamber
- evacuate outside the air through a chimney (supplied) and an exhaust pipe.

To complete the installation, follow the instruction from pag. **81** to pag. **85**.Then continue to the pag. **86**

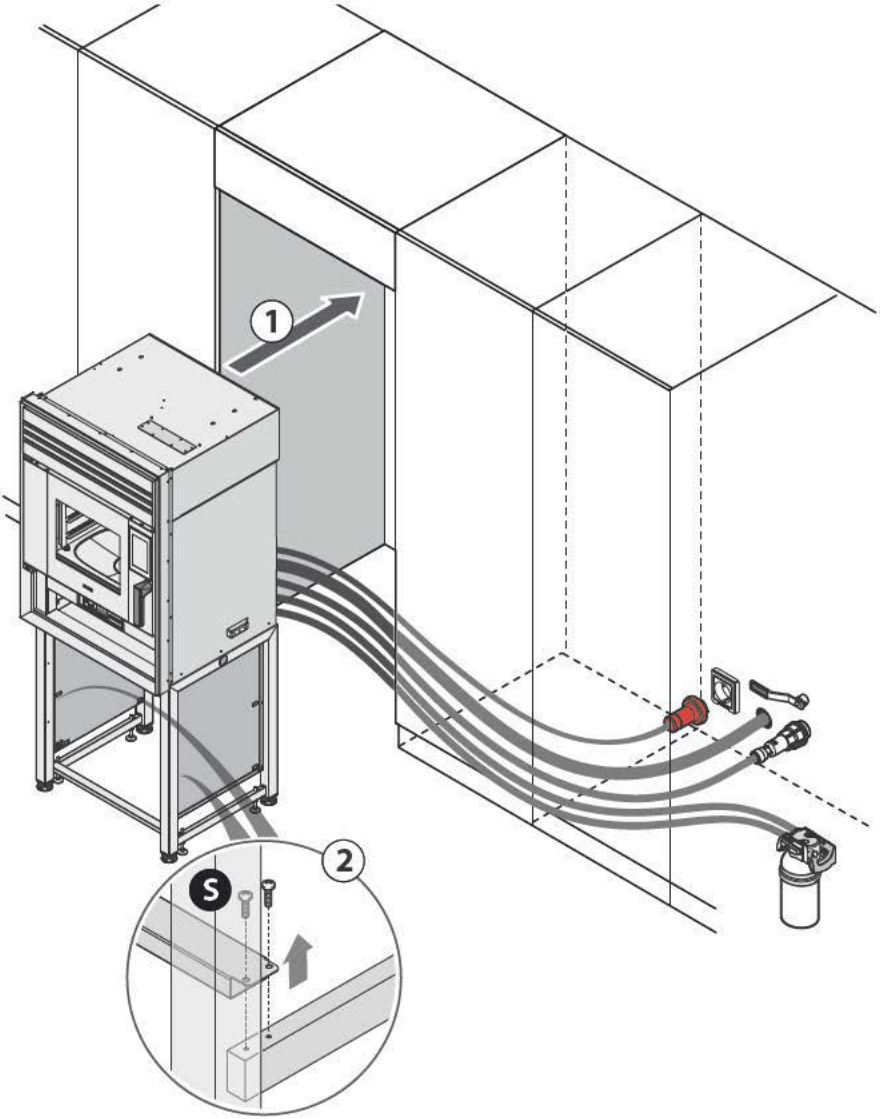


HOOD TECHNICAL SPECIFICATIONS	
Airflow capacity	Speed 1 - 340 m³/h Speed 2 - 530 m³/h
Emitted decibel	Filtering Speed 1 - 47 dBA Filtering Speed 2 - 63 dBA Extracting Speed 1 - 45 dBA Extracting Speed 2 - 57 dBA

MODEL 1S WITH **FILTER HOOD** | Inserting the niche

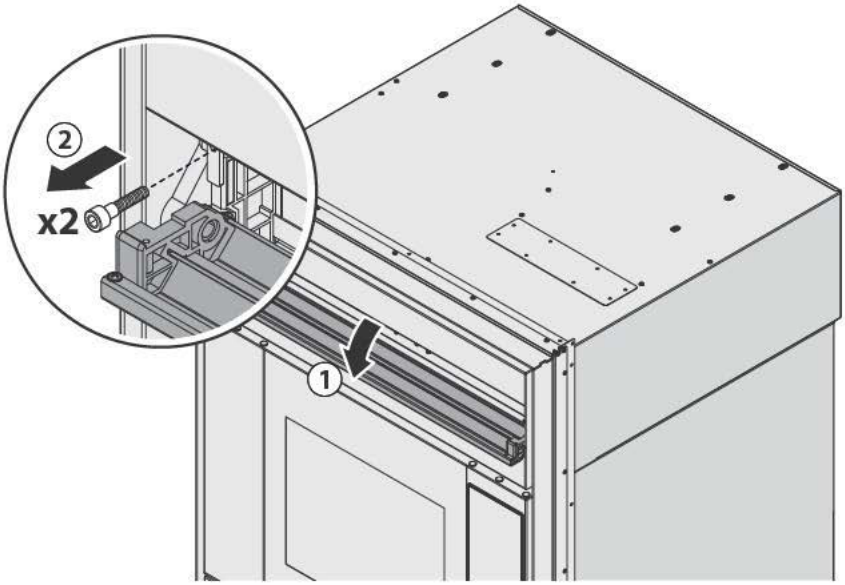
(1) Insert the column in the niche.

(2) Unscrew the four **screws** (S) holding the front beam in place and remove the beam.

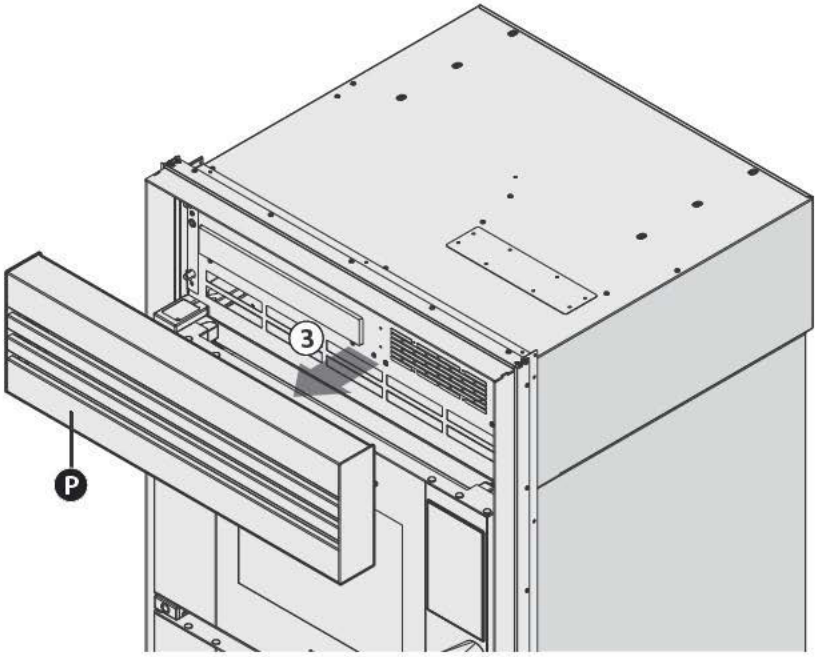


Continue to pag. 86

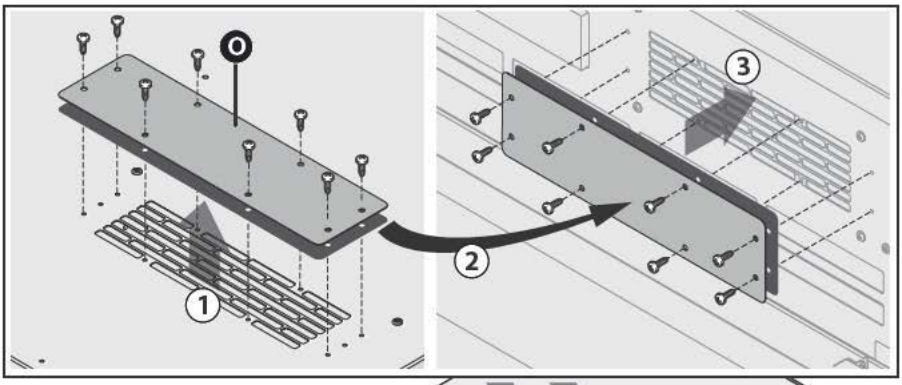
MODEL 1S WITH **EXTRACTOR HOOD** | Disassembly the front HOOD PANEL



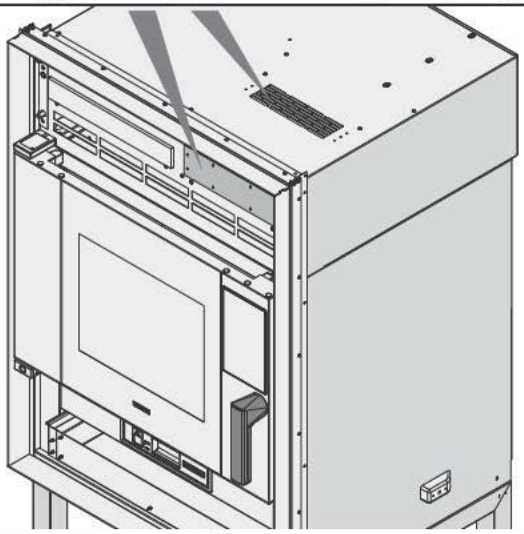
Disassemble the **front hood panel** (P) by removing the two fixing screws.

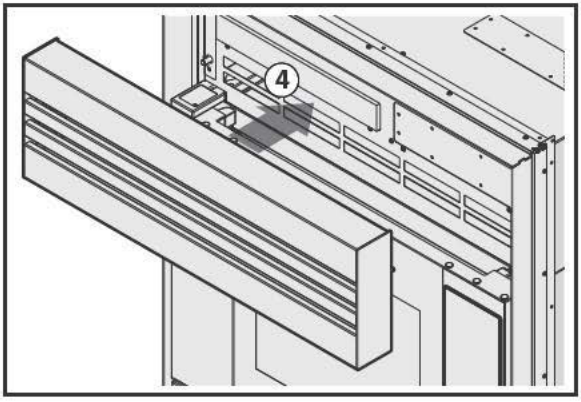


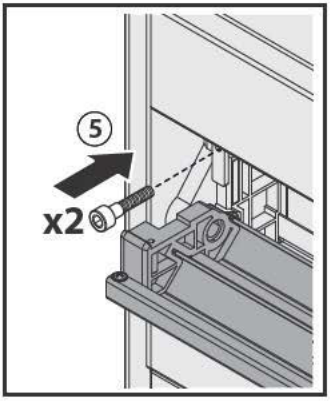
MODEL 1S WITH **EXTRACTOR HOOD** | Moving the closing bracket and remounting the front hood panel



Move the **closing bracket** 0
from the upper hole to the front hole

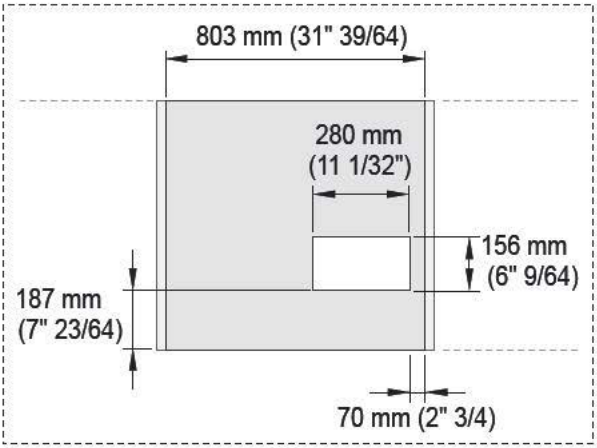


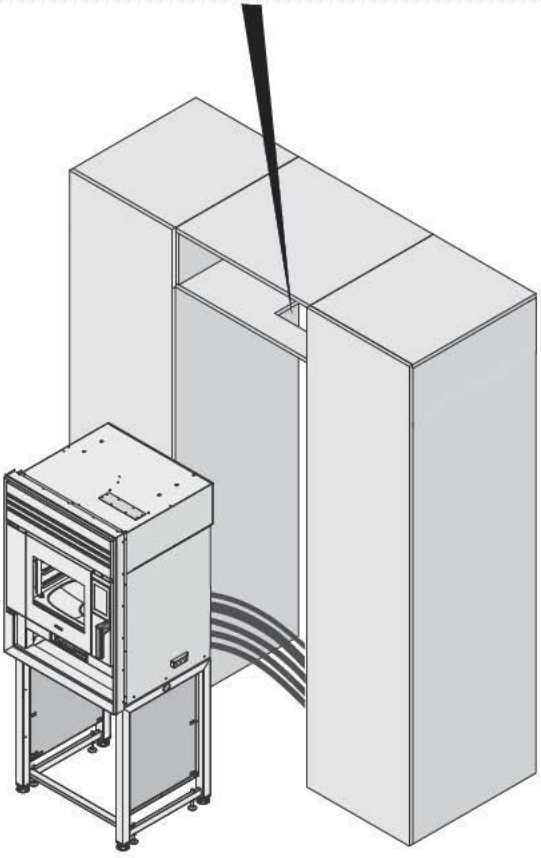




MODEL 1S WITH **EXTRACTOR HOOD** | Preparing the hole

Prepare a hole on the upper panel of the niche.
The hole must respect the dimensions indicated in the drawing beside.

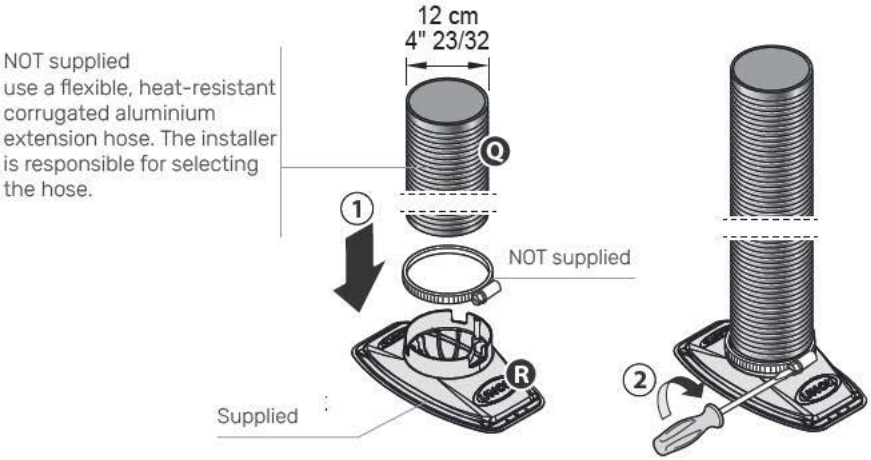




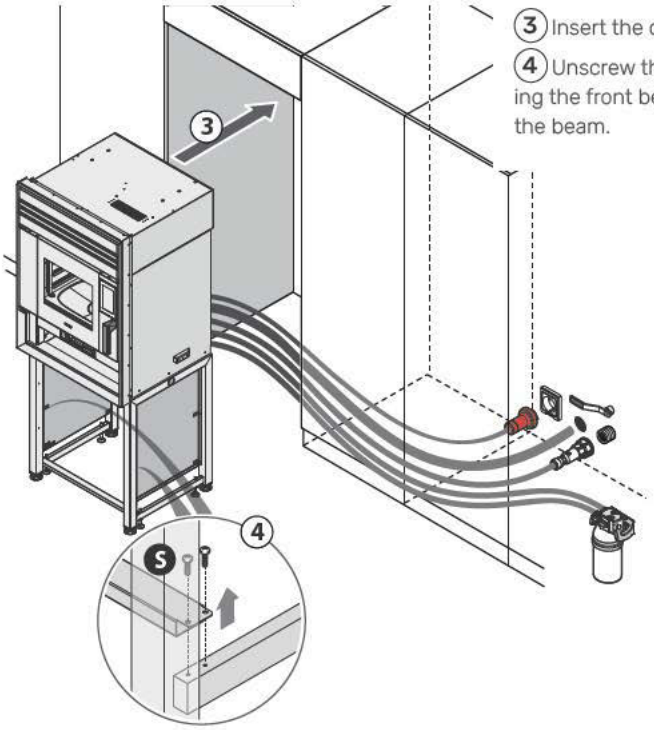
MODEL 1S WITH **EXTRACTOR HOOD** | Connecting chimney

(1) Insert the **exhaust pipe** Q (NOT supplied) to the **chimney** R (supplied).

(2) Connect the **exhaust pipe** Q to the **chimney** R with a stainless steel hose clamp.



MODEL 1S WITH **EXTRACTOR HOOD** | Inserting the niche



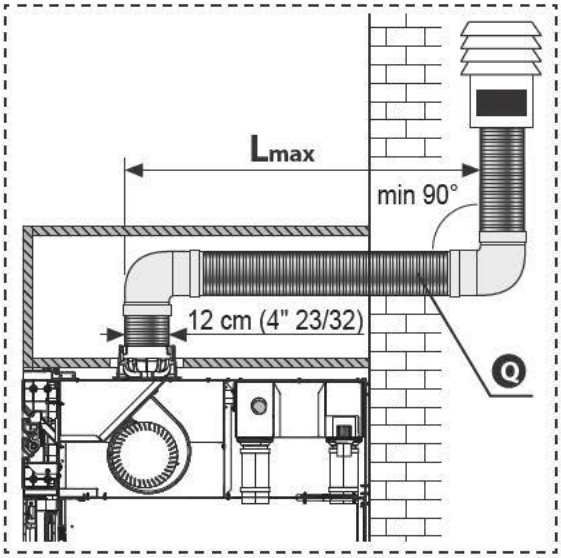
(3) Insert the column in the niche.

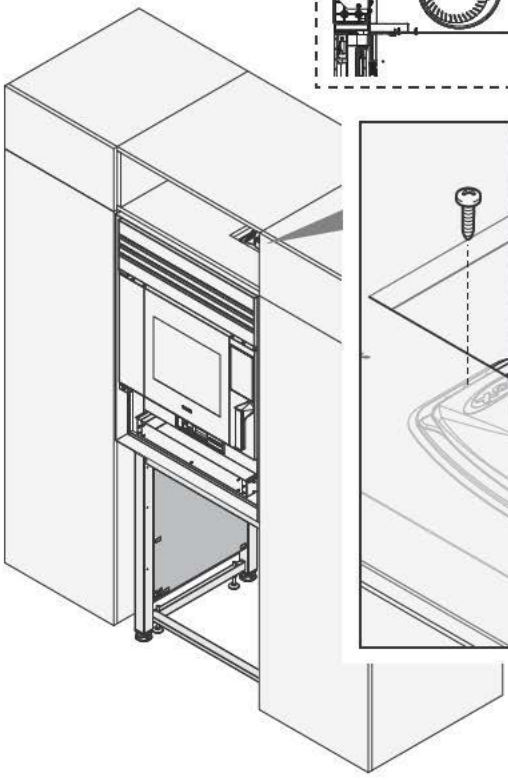
(4) Unscrew the four screws S holding the front beam in place and remove the beam.

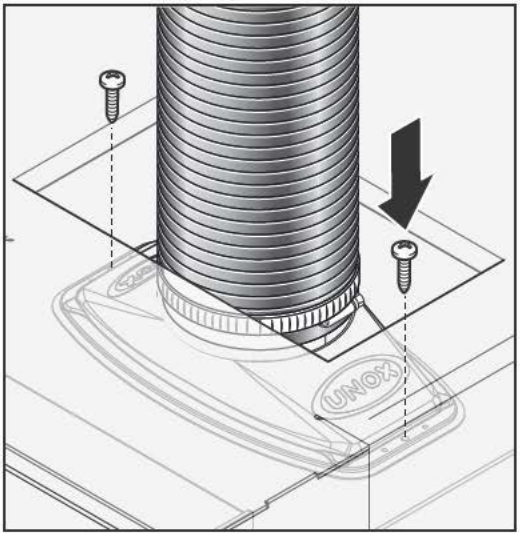
MODEL 1S WITH **EXTRACTOR HOOD** | Connecting chimney and exaust pipe

(5) Fix the **chimney** to the oven by passing through the hole on the upper panel.

Lmax: The maximum length of the **exhaust pipe** (Q) is 9 m | 354" 21/64. For each 90 dg ducting bend inserted, the length of **exhaust pipe** (Q) must be reduced by 1 m | 39" 3/8





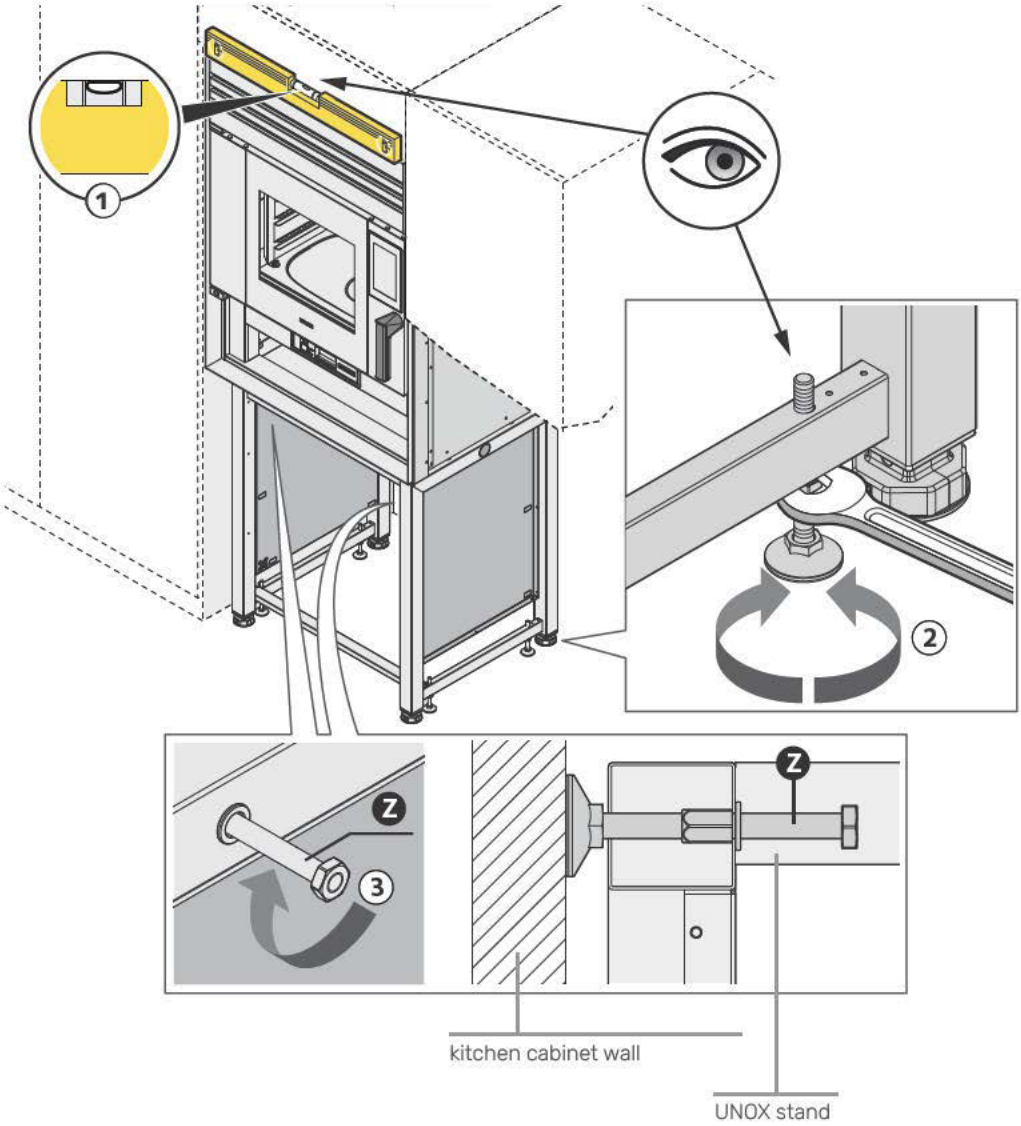


LEVELLING AND ATTACHING THE STAND

(1) The appliances must be perfectly level. Place a spirit level on the upper side of the appliance or on the lower side if they are recessed.

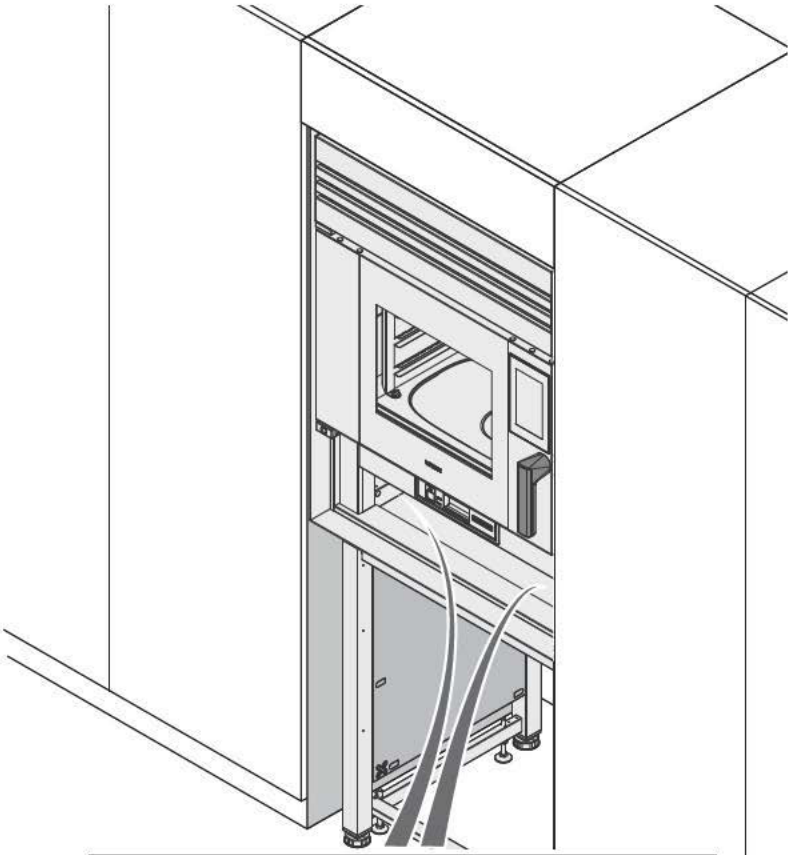
(2) If needed, adjust the appliance height using the 4 anchored feet.

(3) Tighten the **pusher** (Z) until it touches the kitchen cabinet.

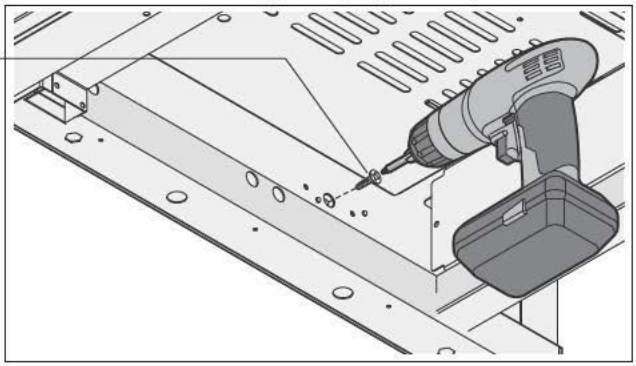


ATTACHING THE APPLIANCE TO THE WALL OR TO NEARBY UNITS

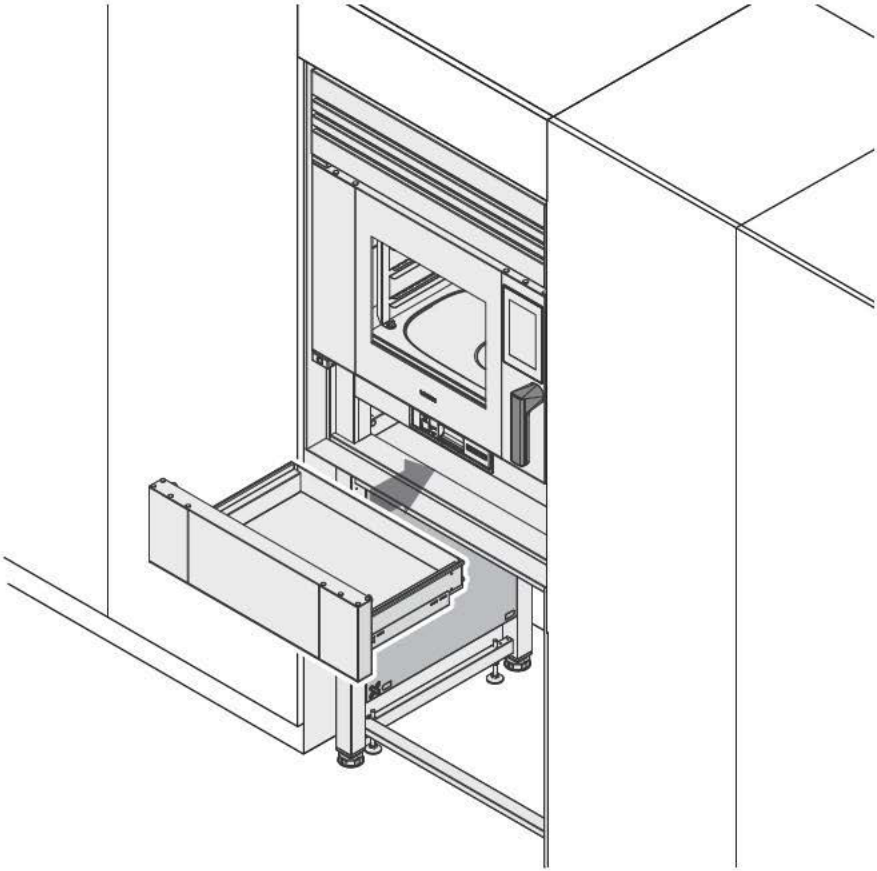
You **must** secure the column to the wall using the brackets supplied.
The screws for fastening the column to the wall are not supplied, since they vary depending on the type and material of the wall. Therefore, they must be supplied by the installer.



UNOX does not supply screws.
Use appropriate screws for attachment to wood.
The installer is responsible for selecting the screws.



Remount the **front drawer.**



NOTES

REFILLING DETERGENT TANK

Only fill with the 1 litre | 0.3 gal bottles of the **UNOX.Det&Rinse Plus** detergent.
To refill the detergent:

- **Wear gloves to prevent your hands from coming into direct contact with the detergent.**
- Remove the tank inside the drawer.
- Open the lid of the tank.
- Grab the bottle of UNOX detergent (1 litre | 0.3 gal), hold it vertically. Face the cap upwards and remove it.

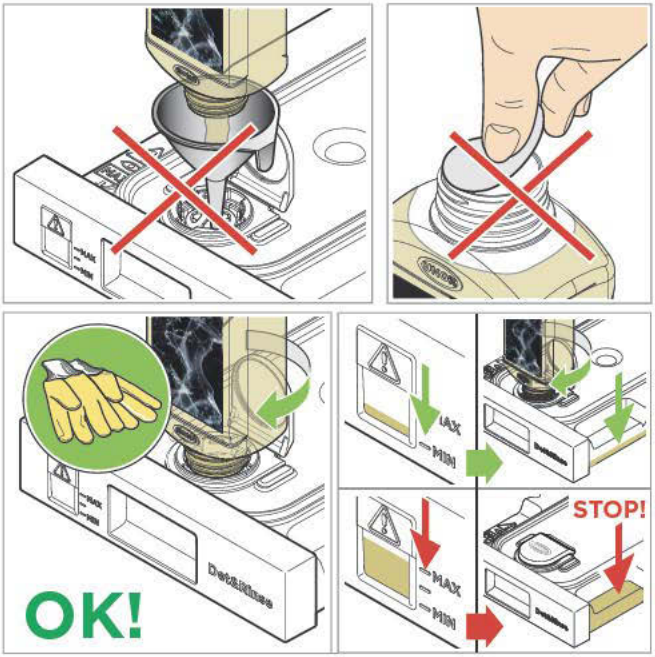
DO NOT remove or pierce the protective film.

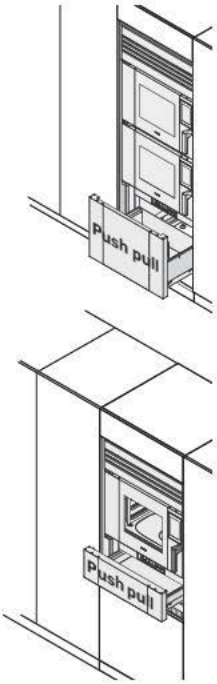
- Make sure that the protective film is intact. Turn the bottle upside down and screw it on the tank (by screwing the bottle, a pin in the tank breaks the protective film, which allows the detergent to come out).
- Once the bottle is empty, unscrew it to remove it. Avoid dripping.

The detergent must not come into contact with the skin, eyes or mucous membranes. In case of contact with the detergent, follow the instructions on the safety data sheet.

- Repeat the process up to the maximum level allowed, indicated on the front of the tank (**maximum tank capacity 3 litres | 0.8 gal = 3 bottles**).
- Remove the bottle.
- Reposition the tank until it stops.
- Dispose of the gloves, taking care not to touch the areas spoiled with detergent.

Never touch the detergent with bare hands.





DISPOSAL

Pursuant to article 13 of Legislative Decree 49 of 2014 "Implementation of the WEEE Directive 2012/19/EU on electrical and electronic equipment waste"



The crossed-out wheelie bin symbol indicates that the product was placed on the market after 13 August 2005 and that, at the end of its useful life, it should not be disposed of with other waste, but must be collected separately.

All appliances are made with recyclable metal materials (stainless steel, iron, aluminium, galvanized steel, copper, etc.) in percentages above 90% by weight.
Before disposal, ensure the appliance is unusable by removing the power cable and all compartment or cavity closure devices (where present).
At the end of its useful life, the product must be disposed of in such a way as to reduce any negative impact on the environment and make efficient use of available resources. Prefer prevention, preparation for reuse, recycling and reclamation, and remember "the polluter pays". Please remember that illegal or incorrect disposal of the product incurs penalties, as provided for by current legislation.

Information on disposal in Italy

In Italy, WEEE appliances must be delivered to:
- recycling centres (also known as waste disposal sites/facilities)
- the dealer from whom a new appliance is purchased, who is required to collect them free of charge ("one-for-one" exchange);

Information on disposal in other countries

If you want to dispose of this appliance, we recommend you contact your local authority or dealer for information on the correct disposal method.

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