iVario® 2-XS
iVario® Pro 2-S

Original installation instructions

Device hand-over

Dealer:	Installer:

Include the following information with queries:

Device type:	
Device no.:	
Your device was tested by (name):	

⚠ WARNING

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

Table of contents

1 Introduction

1.1 Information on this manual

This document is a version of the installation instructions. Please note the respective version and date.

This document is part of the unit. Read this manual before carrying out the installation. The manual enables safe handling of the unit and correct installation.

The images in this manual are examples only and may differ from the device.

This manual is valid for the following devices:

- iVario 2-XS
- iVario Pro 2-S

Storage

Keep the installation manual and operating manual with the unit. During service work, the installation manual must be accessible to specialist personnel authorized by the manufacturer at all times.

Transfer

Pass this installation manual on to the owner of the device.

Explanation of symbols

✔ A requirement lists all conditions that must be met before an action.

1. An action step describes an action to be carried out by the reader.

> Shows a successful interim result.

2. Further action step.

>> The results shows the result of the action.

1.2 Target audience

- This document is aimed at trained technicians, who have been certified by the manufacturer after taking part in trainings and safety trainings.
- The installation, as well as inspection, maintenance and repair work, may only be carried out by trained technicians.
- It is advisable to only have inspection, maintenance and repair work carried out by technicians authorized by the manufacturer.
- The unit must not be used, cleaned or maintained by children. The unit is not a toy. It must not be used as a toy even under supervision.
- The unit must not be used, cleaned or maintained by persons with limited physical, sensory or mental aptitude, or lack of experience or knowledge, unless they are supervised by a person responsible for their safety and have received instruction from this person in the risks associated with the unit.
- In order to avoid the risk of accidents or damage to property, the manufacturer advises that technicians attend regular training and safety training sessions.

1.3 Copyright

It is not permitted to pass on product-specific information to third parties. We reserve the right to implement technical developments and changes in the interest of progress. All rights are reserved, including those of translation and reproduction.

1.4 Conformity

The conformity applies to the complete device at the time of delivery. In the event of upgrades, modifications and connection of additional functions, the operator is responsible for obtaining an extended conformity.

Observe the relevant country-specific and local standards and regulations concerning the installation and operation of commercial cooking devices.

Conformity Europe

- The power connection is established and connected in accordance with IEC 60335, taking into account EN 60335 and VDE 0700.
- The water connection is established and connected in accordance with IEC 61770, taking into account EN 1717, DIN EN 13076 and DIN EN 13077.
- The wastewater connection corresponds to the current valid SVGW/ SSIGE regulations and is tested and certified accordingly.
- The device is approved for use up to 4000 m above NHN in accordance with IEC 60335.

Conformity USA and Canada

- The device is tested and built according to UL-197, CSA C22.2 no. 109 and NSF 51.

1.5 Liability and warranty conditions

Liability

Installations and repairs that are not carried out by specialist personnel authorized by the manufacturer or not using original service parts, as well as any technical changes to the unit that are not approved by the manufacturer, can render the manufacturer's product liability null and void.

Warranty

The warranty does not cover damage caused by failure to observe this installation manual.

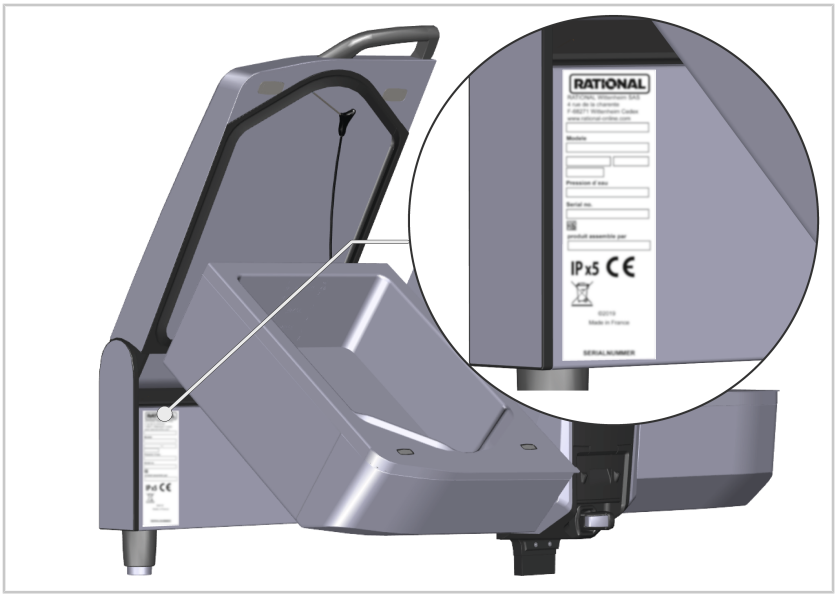
The following are also excluded from the warranty:

- Damage caused by incorrect use, installation, maintenance, repair
- Using the unit other than intended
- Modifications or technical changes to the unit that are not authorized by the manufacturer
- Failure to use genuine service parts from the manufacturer

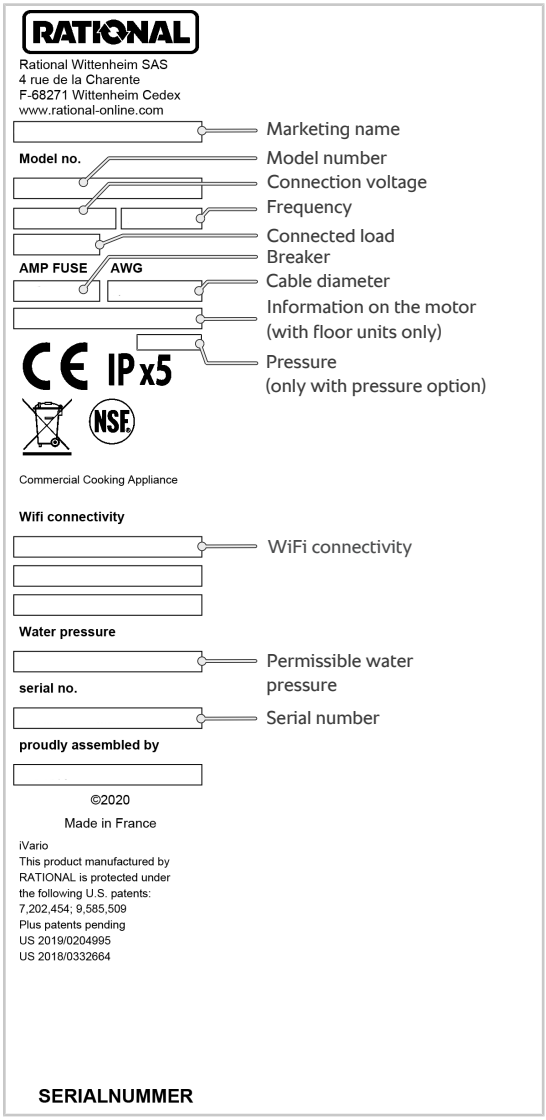
1.6 Identification of the device

Type plate

The type plate is located behind the left pan on the installation box.



The type plate includes the following information:



Device type and model number

The assignment can be found in the table below.

The device type designation and the model number on the type plate are different. Depending on the device option, the following digits are added to the model number on the type plate.

Starting in 2021, the pressure cooking option will also be available in the USA.

Device size type plate	Unit size
LMX.100AE ...	iVario 2-XS
LMX.100BE ...	iVario Pro 2-S
LMX.200BE ...	iVario Pro 2-S with print option

2 Safety

2.1 Display of warning notices

⚠ DANGER

Type and source of danger
Failure to observe these warnings will result in severe injuries or death.
Measures to avoid the danger

⚠ WARNING

Type and source of danger
Failure to observe these warnings could result in severe injuries or death.
Measures to avoid the danger

⚠ CAUTION

Type and source of danger
Failure to observe these warnings could result in minor or moderate injuries.
Measures to avoid the danger

NOTE

Failure to observe these warnings could result in damage to property.

2.2 General safety information

The device is designed so that it does not pose a danger when installed correctly. This manual describes proper installation of the device.

- Observe the relevant country-specific and local regulations and standards in your country.
- Use lifting aids such as lifting straps when transporting.
- Secure the device against tipping when transporting and after setup.
- Wear suitable protective clothing, such as protective gloves and safety shoes, during transport and installation.

- The device should only be set up in a protected environment safe from frost and wind.
- Do not set up the device in adverse weather conditions, such as rain.
- The device should only be connected in accordance with the installation manual and the information on the type plate.
- Switch off the device when disconnecting it from or connecting it to the power supply.
- After use, only transport the device in ambient temperature of over 0 °C [32 °F].
- Only store the device in ambient temperatures of over 0 °C [32 °F].
- Do not spray aerosols in the area around the device while the device is in operation.
- Check the unit for transport damage. Inform your specialist dealer/shipping company immediately if you suspect transport damage.

2.3 Intended use

The device is designed for thermic food preparation. This device is only intended for commercial use, such as in restaurant kitchens or catering operations for schools, hospitals, or delis. Do not use this unit outdoors. This unit must not be used for continuous mass industrial food production.

All other usages of this device are considered improper and dangerous. The manufacturer accepts no liability for consequences arising from use other than intended.

3 Product description

3.1 Device description

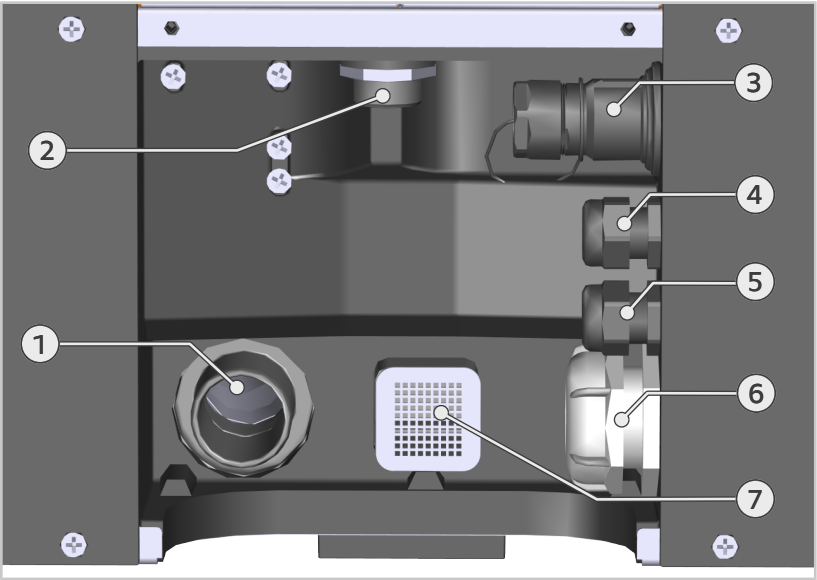
NOTE

Never seal or pipe the safety overflow

Do not reduce the cross-section of the safety overflow.

The safety overflow but be accessible and clear at all times. It is used for ventilation and as a drain in the event of blockages.

The connections for the installation are located on the rear side of the device behind the center cover:



1	Waste water connection	5	PG screw fittings for optional connection
2	Water connection	6	Cable gland with cable for electrical connection
3	Ethernet network connection	7	Safety overflow with sieve (no connection)
4	PG screw fittings for optional connection		

3.2 Technical data

Protection class

The device corresponds to jet water connection class IPX5.

Ambient conditions for operation

- Do not set up the device in ambient temperatures below 5 °C [41 °F].
- Do not commission the device in ambient temperatures below 5 °C [41 °F].
- Only set up the device in rooms with adequate ventilation via windows or an extractor hood.

Sound emission value

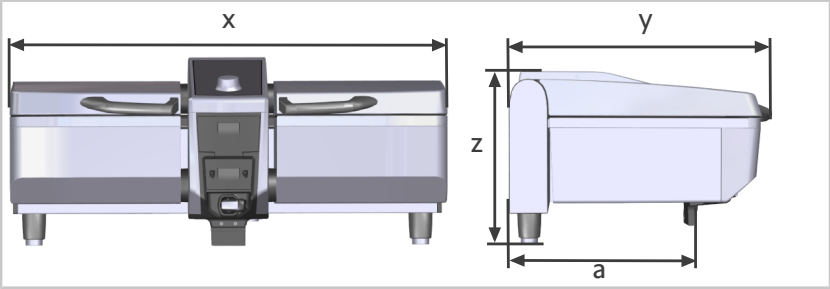
The sound emission value is below 70 dB.

3.2.1 Device weight

Unit size	Weight without packaging kg [lbs]	Weight with packaging kg [lbs]
iVario 2-XS	117 [258]	144 [317]
iVario Pro 2-S	134 [295]	161 [355]
iVario Pro 2-S with print option	157 [346]	184 [406]

3.2.2 Device dimensions

The device dimensions refer to a device foot length of 90 mm [3 1/2 inch].



Device size 2-XS

Width mm [inch] x	Depth mm [inch] y	Depth mm [inch] a	Height mm [inch] z
1100 [43 1/4]	756 [29 3/4]	547 [21 17/32]	485 [19 1/8]

Device size 2-S

Width mm [inch] x	Depth mm [inch] y	Depth mm [inch] a	Height mm [inch] z
1100 [43 1/4]	938 [36 7/8]	730 [28 47/64]	485 [19 1/8]

Packaging dimensions

Device size 2-XS

Width mm [inch] x	Depth mm [inch] y	Height mm [inch] z
1250 [49 1/4]	1100 [43 1/4]	675 [26 5/8]

Device size 2-S

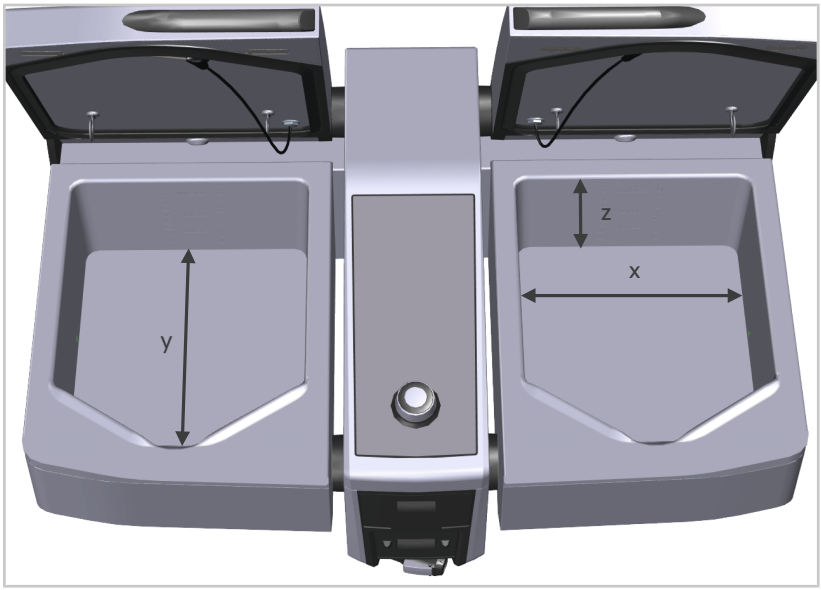
Width mm [inch] x	Depth mm [inch] y	Height mm [inch] z
1250 [49 1/4]	1100 [43 1/4]	675 [26 5/8]

3.2.3 Pan dimensions

Usable capacity

Unit size	Useful volume l [gal]
iVario 2-XS	17 [4,5]
iVario Pro 2-S	25 [6,5]

Pan internal dimensions



Unit size	Width mm [inch] x	Depth mm [inch] y	Height mm [inch] z
iVario 2-XS	341 [3/8]	370 [14 5/8]	155 [6 1/8]
iVario Pro 2-S		553 [21 3/4]	

3.2.4 Thermal load

Unit size	Thermal load latent (kJ/h)	Thermal load sensitive (kJ/h)
iVario 2-XS	14364	2873

Unit size	Thermal load latent (kJ/h)	Thermal load sensitive (kJ/h)
iVario Pro 2-S	20866	4309

We reserve the right to implement technical developments and changes.

4 Transport

⚠ CAUTION

Risk of crushing due to the weight of the device

Hands, fingers and feet may be crushed.

- Wear suitable protective clothing during transport.
- Use lifting aids such as lifting straps.

⚠ CAUTION

Risk of tipping during transport

Risk of crushing if the device tips over onto a person.

- Note the center of mass of the device.
- Ensure that the device does not tip over during transport or lifting.

⚠ CAUTION

Inclined plane during transport using transport aid

Risk of crushing and injury during transport using a transport aid over an incline or uneven floor.

- Do not run over an incline of more than 10°.
- Take care when transporting the device.

NOTE

Damage to the device due to narrow areas

Note the width and height of the accesses during transport.

Only transport the device with the device cover closed. When transporting the device vertically on its back, secure the device cover with a strap. Do not transport and store the device on its back for prolonged periods.

NOTE

Incorrect transport

Do not push the unit to the designated installation site.

The unit feet may be damaged.

Transport the device correctly as outlined in this manual.

✔ The device is on the transport pallet.

- ✔ The device feet are positioned in the foot guides in the transport pallet box.
- ✔ The designated installation surface is horizontal.
- ✔ The device covers are closed.
- ✔ At least 2 people are required for the transport.

1. Remove the packaging material.

4.1 Lifting points on the unit

NOTE

Damage due to lifting incorrectly

Only lift the device via the designated lifting points.

Center of mass

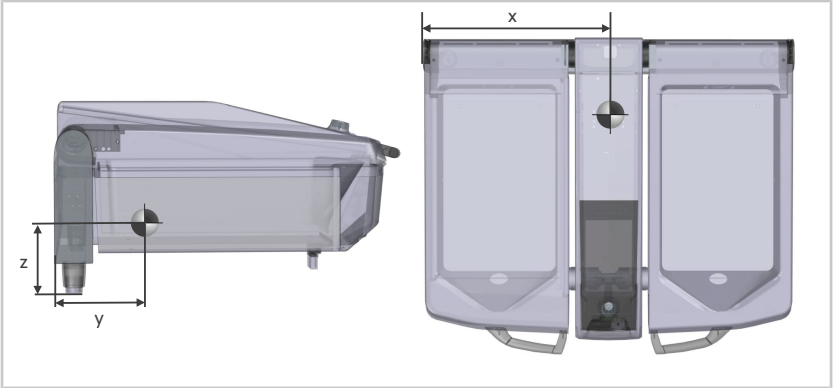
The following graphic shows the center of mass of the device. The dimensions for the center of mass shown are approximate for orientation.

⚠ CAUTION

Risk of crushing and injury if the center of mass is not observed

Failure to observe the center of mass can result in the device tipping over during lifting and transportation.

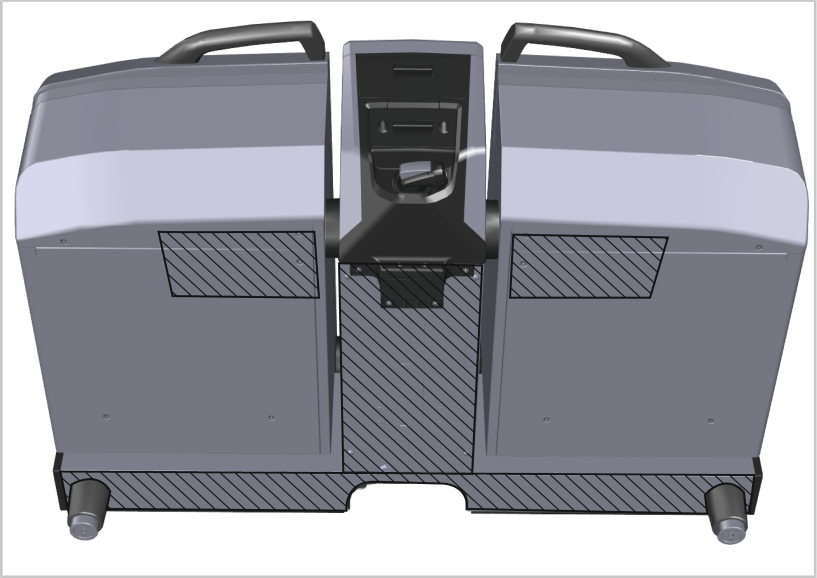
- Ensure that the weight of the device is distributed evenly.
- Note the center of gravity of the device.



	Width mm [inch] x	Depth mm [inch] y	Height mm [inch] z
iVario 2-XS	544 [21 3/8]	176 [6 7/8]	155 [6 1/8]
iVario Pro 2-S	544 [21 3/8]	182 [7 1/8]	161 [6 3/8]

Lifting points on the unit

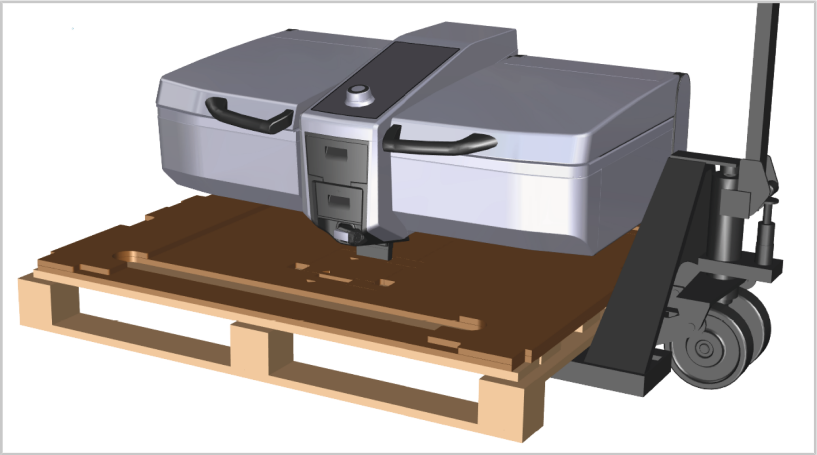
1. Lift the unit on the base frame marked in the figure and on the marked pan paneling.



4.2 Transport with pallet

- ✔ The packaging material is removed.
- ✔ The device is on the transport pallet.

1. Transport the device to the installation site with the transport pallet.



2. Lift the device off the transport pallet on the lifting points and set it down on the designated installation surface.

>> The device is set down on the designated installation surface and ready for setup and installation.

4.3 Transport without pallet with lift truck

NOTE

Transport with transport aid without protection

Transport the device on the pallet for as long as possible. Do not transport the device with a transport aid or similar transport equipment without protection. Use a wooden board for protection, for example.

NOTE

Damage from the fixing straps

Take care not to scratch or damage the device when attaching the strap.

NOTE

Damage to the device feet when the device is tilted

Ensure that the device feet are not damaged when tipping the device on to its back and from its back into the normal position.

✔ The packaging material is removed.

✔ The protection from damage (e.g. a wooden board) is on hand.

1. Place the protection from damage on the lift truck.

2. Lift the device off the pallet on the lifting points and set it down on the lift truck.

>> The device is set down on the designated installation surface and ready for setup and installation.

4.4 Vertical transport without pallet with lift truck

⚠ CAUTION

Risk of crushing and injury during vertical transport without straps

The pan covers can open during vertical transport. Hands, fingers or feet may be crushed.

- Fix the pan and cover with a strap.

In order to transport the unit through narrow spaces, it may be briefly transported in vertical position on its back.

1. Fix the pan and cover with a strap.

2. Transport the unit to the installation site slowly with the lift truck. Hold the unit securely during transport.

3. Lift the unit on the lifting points and place it on the designated installation surface.
4. Remove the fixing straps.

>> The device is set down on the designated installation surface and ready for setup and installation.

5 Setup

⚠ CAUTION

Risk of crushing during setup

Fingers, hands and feet may be crushed under the device.

- Wear suitable protective clothing during setup.
- Only lift the device via the designated lifting points.

Requirements

- When setting up the device on a stand, ensure that only genuine stands from the device manufacturer are used.

5.1 Minimum distance to the device

NOTE

Minimum distance is not observed

To avoid damage to the unit or malfunctions, the unit should be set up with the specified minimum distance from heat sources or open flames.

NOTE

Damage to the wall at the rear of the device

Water or steam may escape from the safety overflow. Remember this during setup and check the properties of the wall at the rear of the device.

5.1.1 Distance from walls

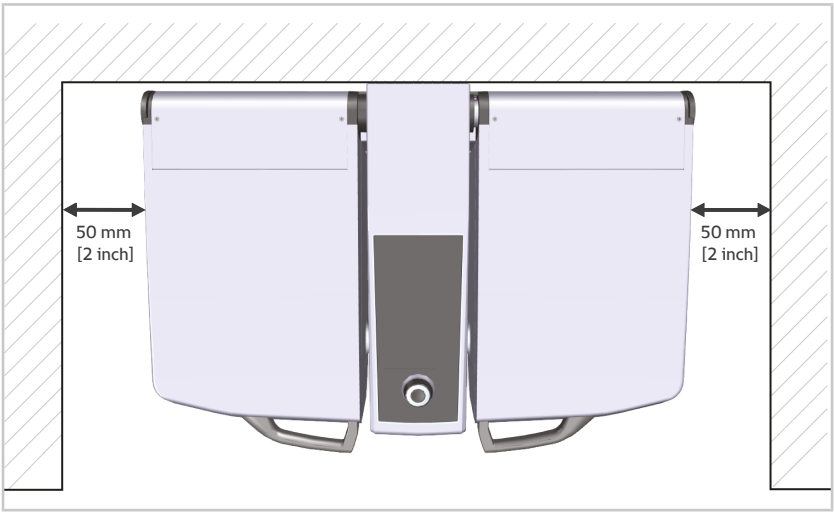
No minimum distance is required at the rear of the device.

✔ The walls at the installation site are built in accordance with the local fire safety regulations and are resistant to heat sources.

1. Maintain a distance of at least 5 mm [1/4 inch] from walls to the left and right.

Manufacturer recommendation

1. Set up the device with a minimum distance of 50 mm [2 inch] from the wall at the left and right to enable ideal cleaning of the device.



5.1.2 Distance from heat sources

NOTE

High ambient temperatures

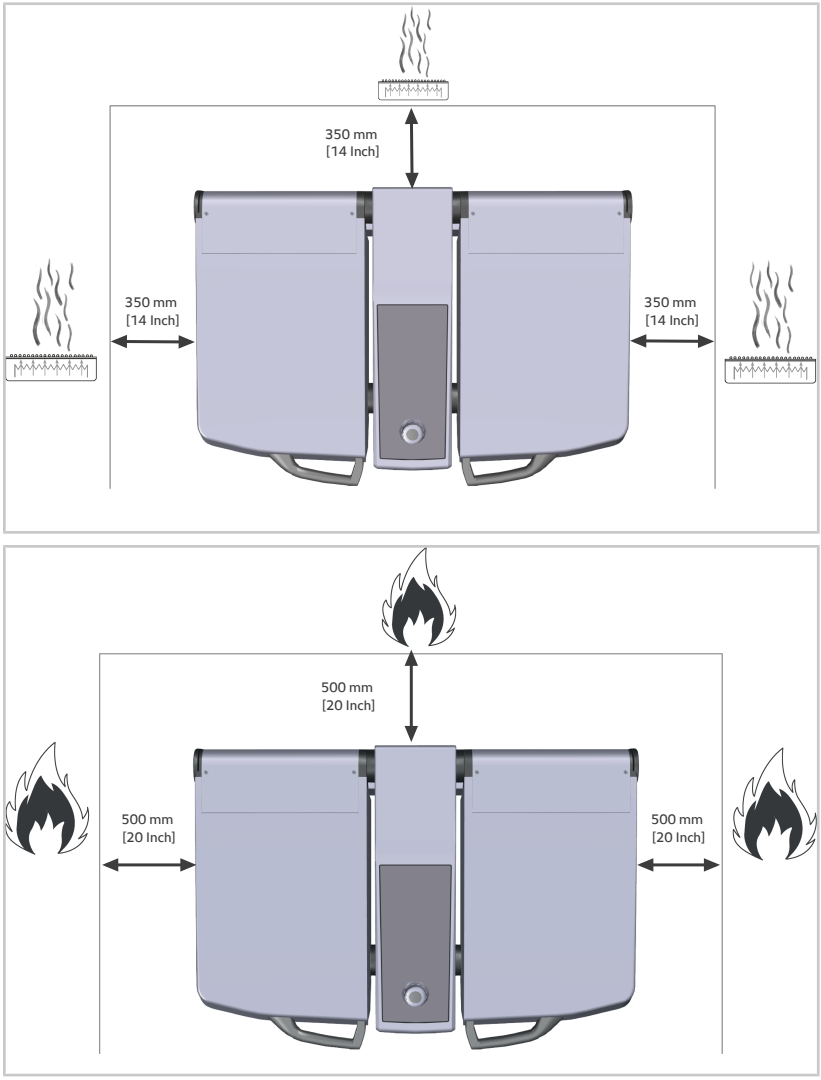
Do not place deep fryers or other heat sources at the sides of the device.

NOTE

Open flames close to the device

When setting up the device at a distance of less than 500 mm [20 inch] from an open flame, always install a heat shield.

1. Set up the device with a minimum distance of 350 mm [14 inch] from heat sources on all sides.
2. Set up the device with a minimum distance of 500 mm [20 inch] from open flames on all sides.



5.1.3 Distance from water sources

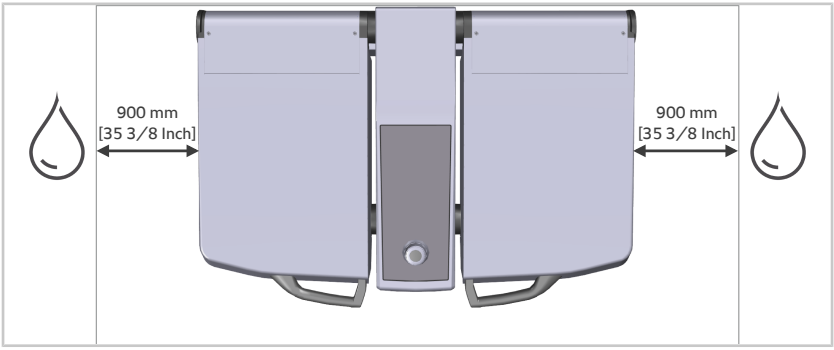
⚠ WARNING

Risk of burning if the minimum distances from open water sources is not observed

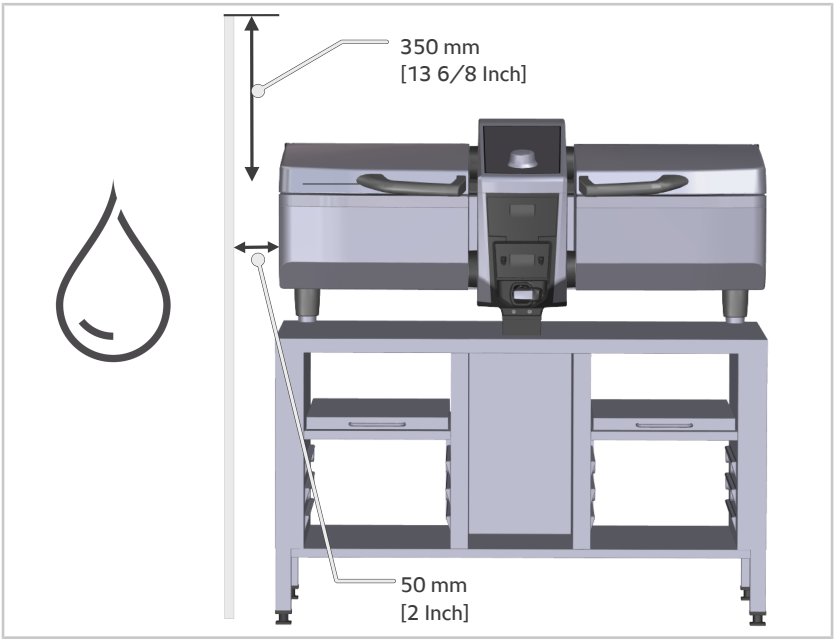
Water can spray into the hot pan, in hot liquids or in hot fat.

- Set up the device with a minimum distance of 900 mm [35 3/8 inch].
- If you can not observe the distance, install the non-flammable divider as described in this manual.

1. Set up the device with a minimum distance of 900 mm [35 3/8 inch] from open water sources.



1. If you can not observe the distance, install a non-flammable 350 mm [13 6/8 inch] high divider between the device and the water source.
2. Observe the recommended minimum distance from walls for easier cleaning of the device.



5.2 Setting up the device

⚠ CAUTION

Risk of tipping when setting up on the installation surface

Risk of crushing if the device tips over onto a person.

- Note the center of mass of the device.
- Ensure that the device does not tip over during lifting.

✔ The installation surface is horizontal.

✔ The minimum distances are observed.

1. Place the device on the designated installation surface.

>> The device is positioned on the installation surface and ready for horizontal alignment.

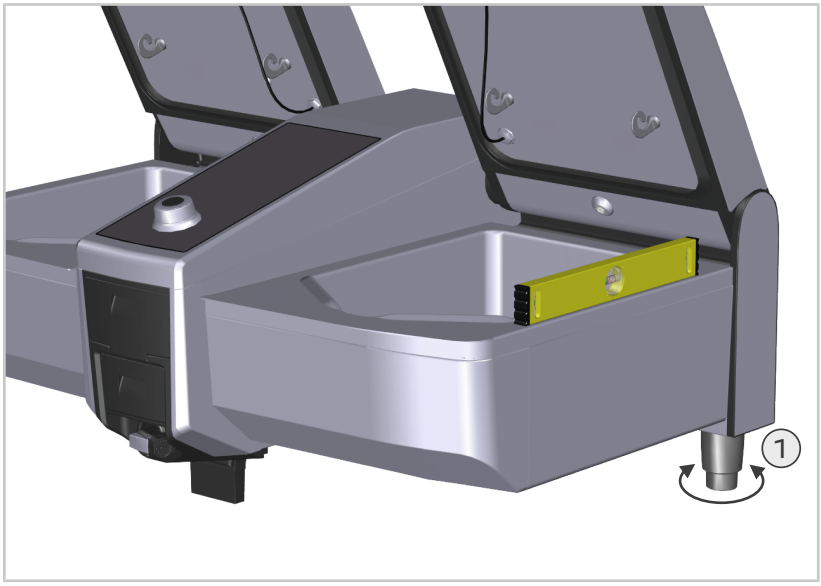
5.2.1 Device alignment

If the installation surface is horizontal, the device

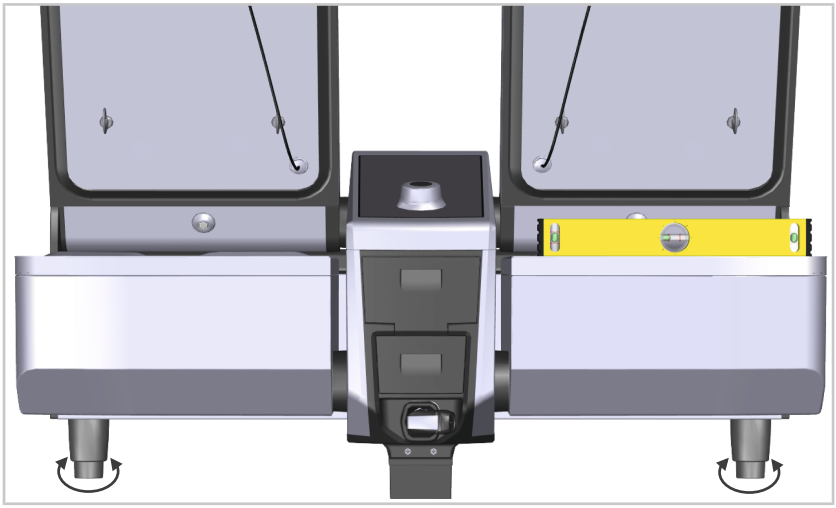
must be adjusted horizontally.

✔ The unit is positioned on the designated installation surface.

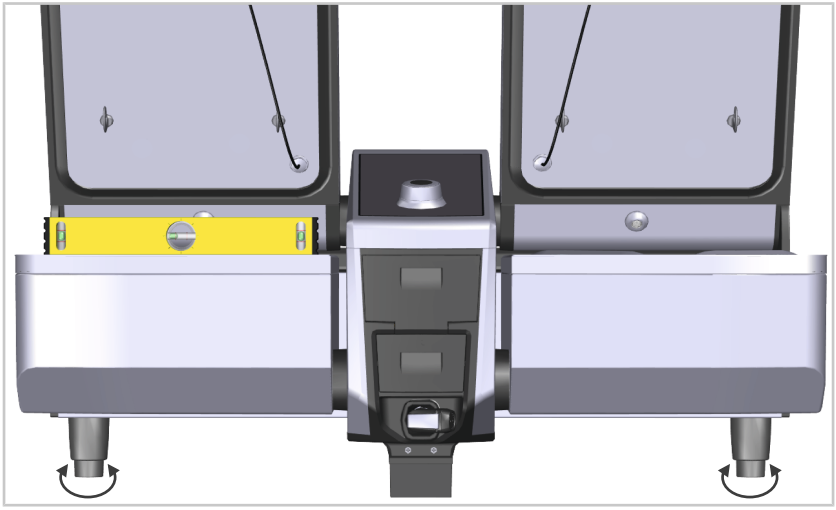
1. Place a spirit level on the right pan and align the unit horizontally using the unit foot (1).



2. Place a spirit level on the right pan and align the unit horizontally using both unit feet.



3. Place a spirit level on the left pan and align the unit horizontally using both unit feet.



4. Check that both pans are aligned horizontally.

>> The unit is aligned horizontally.

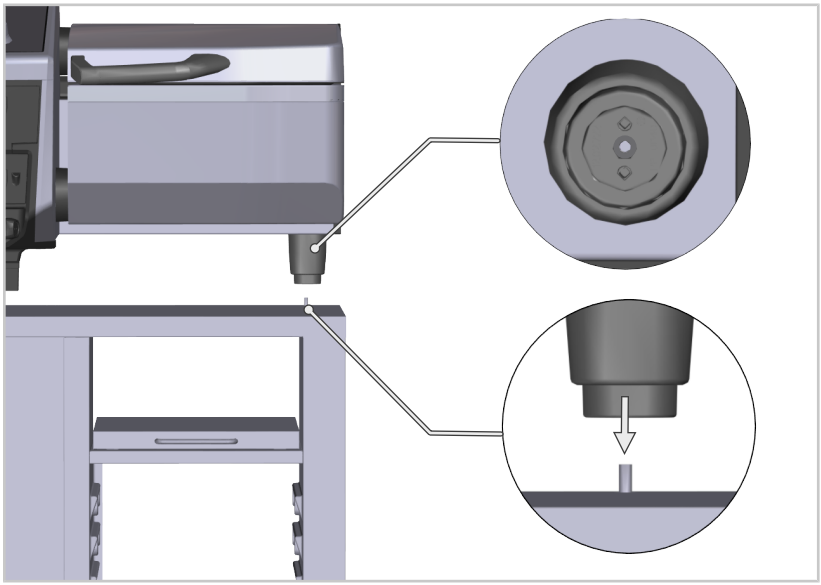
5.3 Placing the device on the stand

The description is based on a standard stand with leveling plastic feet. Note all other setup versions of the stand and the instructions in the original installation manual for stands for the device sizes 2-XS / 2-S.

✔ The stand is aligned horizontally.

✔ The minimum distances are observed.

1. Position the device feet on the bolt of the stand.



>> The device is positioned on the stand and secured against slipping.

5.4 Fixing the device in place

The manufacturer recommends fixing the device to the installation surface.

The kit for fixing the device, including special adhesive, screws and dowels, is **not** included in the scope of supply for the device and can be ordered separately from the manufacturer under item number 60.72.905.

6 Electrical connection

⚠ DANGER

High voltages during connection to the power grid

Danger to life when working with high voltage.

- Disconnect the connection from the power supply.
- Ensure that the unit is de-energized.

⚠ DANGER

Electric shock due to incorrect connection

There is a danger to life if the cable conductors are connected incorrectly.

Connect the wires correctly according to their color coding.

⚠ CAUTION

Risk of injury due to incorrect installation

Use an all-pole disconnecting device accessible on-site with a contact distance of at least 3 mm [0.12 inch].

NOTE

Supply voltage does not correspond to the device voltage

Before connecting, check that the supply voltage corresponds to the required voltage on the type plate of the device.

6.1 Regulations for the electrical connection

- Connect the device in accordance with the valid regulations in your country.
- Connect the device to a standardized power grid.
- The power consumption, fuses and cable cross-sections depend on the following factors:
  - Local regulations
  - Cable length
  - Cable quality
  - Power supply
- Adapt the connected loads to the local conditions and requirements for a correct power connection.
- Observe the NFPA 70/NEC, UL 197 and CSA C22.2 regulations.
- Only use power cables in accordance with NEC/NEMA regulations.

Notes

- The cross-sections of the connection cables are based on the power consumption and local regulations.

Color coding of the conductors

Observe the color coding of the conductors and country-specific deviations.

Color of the conductor	Function of the conductor
Green	Protective conductor
Black, red and beige	Phase L1, L2, L3

RCD fault-current circuit breaker

All devices are installed with a protective conductor terminal. It may also be necessary to include a fault-current circuit breaker type A or type B (RCD type A, RCD type B) when installing the device to comply with country-specific standards and regulations.

6.2 Opening the electrical compartment

⚠ WARNING

Device falls from the installation surface

Risk of crushing and injury if the device is tilted or turned.

- Do not tilt the device on the installation surface.
- When turning the device, ensure that the weight of the device is evenly distributed and that the device is positioned completely on the installation surface.

⚠ CAUTION

Sharp edges on the housing

Risk of cuts on the housing when working in the electrical compartment.

Wear protective gloves.

NOTE

The cover of the electrical cabinet is curved

To guarantee that the electrical cabinet seals evenly, the cover has a preload. In dismantled state, the cover of the electrical cabinet curves.

NOTE

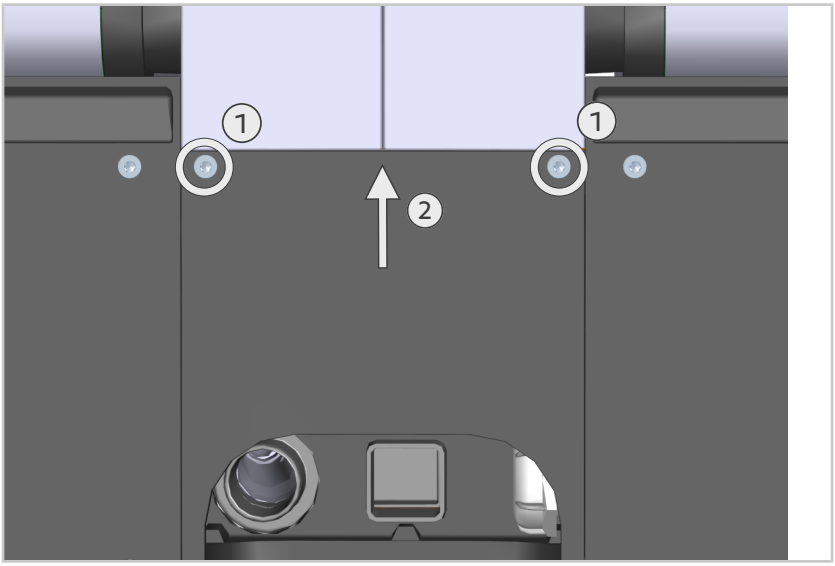
Damage to the holes for the electrical cabinet cover

Failure to follow the order for removing and tightening the screws for the electrical compartment cover could result in damage to the holes due to the preload in the cover.

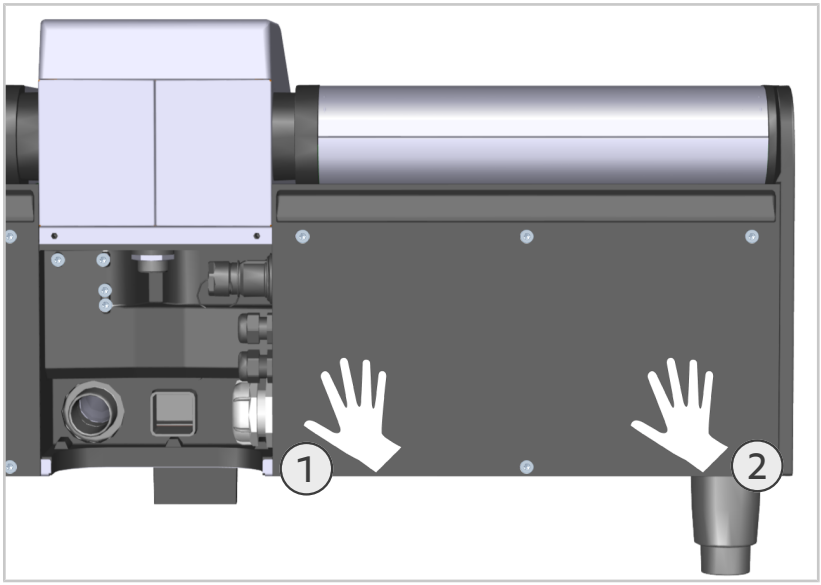
The electrical compartment is located behind the right cover on the rear side of the device.

- ✔ The device is positioned on the designated installation surface.
- ✔ The device covers are closed.
- ✔ A hex key (Torx Plus) is on hand.
- ✔ All voltage sources are switched off via an external circuit breaker.

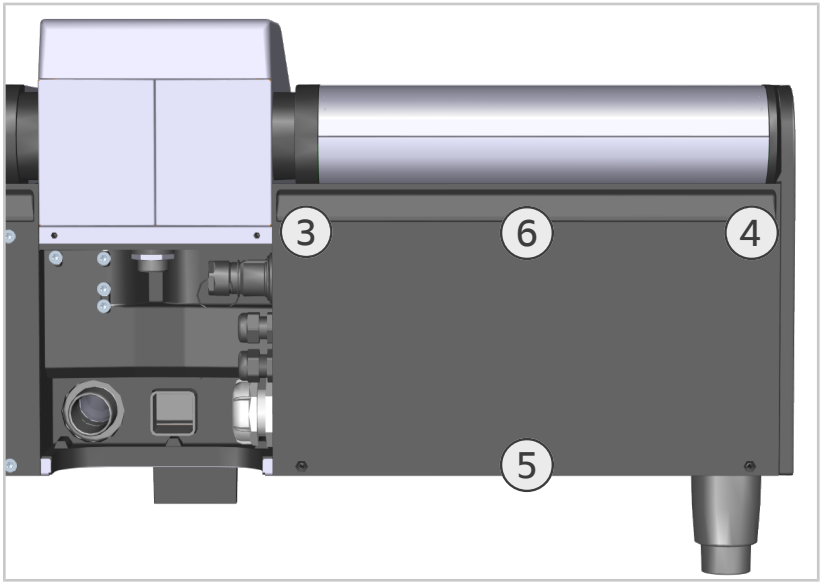
1. Remove the silicone caps from the screws to be removed.
2. Remove the marked hex keys (1) and remove the cover by pulling it upwards (2).



3. Press lightly on the cover in the area of the relevant screw and release the screws (1) and (2).



4. Loosen the screws (3),(4), (5) and (6) one after the other.

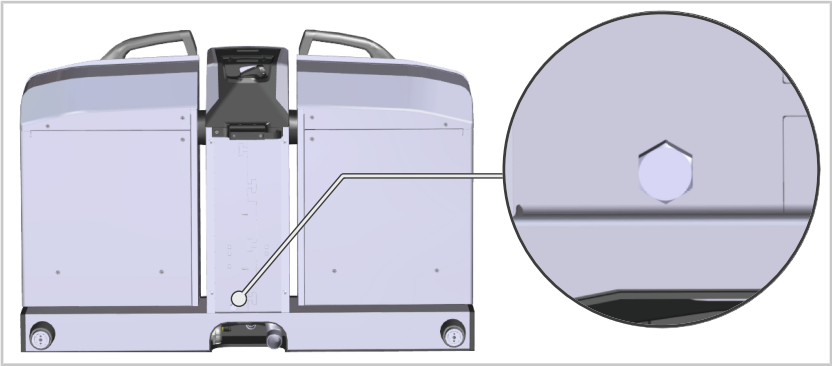


5. Remove the cover on the electrical compartment.

>> The electrical compartment is open.

6.3 Connecting the equipotential bonding

1. Connect the equipotential bonding before installing the connections.



6.4 Connecting the device to the power grid

Notes on the power cable and connection point

- The manufacturer recommends using a flexible power cable. A rigid power cable makes the connection more difficult and can impact the position of the device.
- The flexible power cable is at least type SOOW 90 °C.
- The devices are supplied with a power cable and connection box. The cable is 800 mm [31 1/2 inches] long (+100 mm [3 7/8 inches] connection in the device, +100 mm [3 7/8 inches] in the connection box). The device must be connected via the supplied connection box.

Carrying out the connection

✔ A fault-current circuit breaker type A or B is present.

✔ The connection box is open.

1. Unscrew the cable gland.
2. Feed the power cable through the cable gland into the connection box to the connection point.
3. Connect the protective conductor to the yellow–green terminal.
4. Connect the phase conductor to terminals L1 to L3.
5. Check that the conductors are connected correctly.
6. Pull the cable gland tight in the opening.
7. Close the connection box.
8. Connect the power cable to the power grid.

>> The grid connection is complete.

Color coding of the terminals

Connection	Conductor color	Terminal	Tool
Phase	Black, red and beige	L1, L2, L3	Hex key
Protective conductor	Green	PE	Slotted screwdriver

6.5 Connect the device for demo mode to the power grid

The demo mode is used for demonstration purposes for the basic functions of the device.

Observe the following table with the color codings for the connection.

Color coding of the terminals for demo mode

NOTE

Power supply for demo mode

A power supply of at least 190 V – 240 V AC 50 / 60 Hz is required to run demo mode.

Connection	Conductor color	Terminal	Tool
Phase	Black	L1	Hex key
Neutral conductor	White	L2	Hex key
Protective conductor	Green	PE	Slotted screwdriver

The following functions are activated or deactivated in demo mode:

- Cooking processes are simulated (processes are speeded up)
- Movement of the pan and device cover is active
- Heating is deactivated

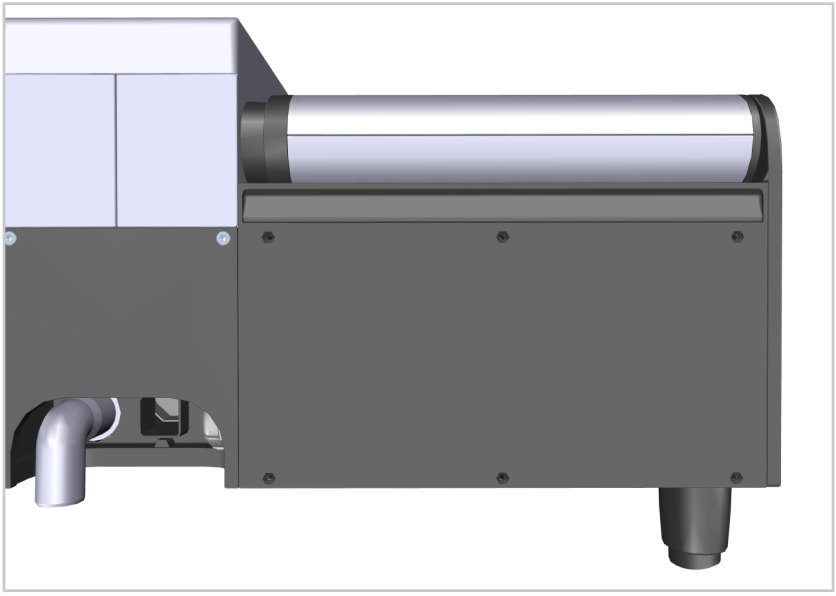
If the device is connected in demo mode, the following connections are sufficient:

- One phase
- One neutral conductor
- One protective conductor
- Equipotential bonding

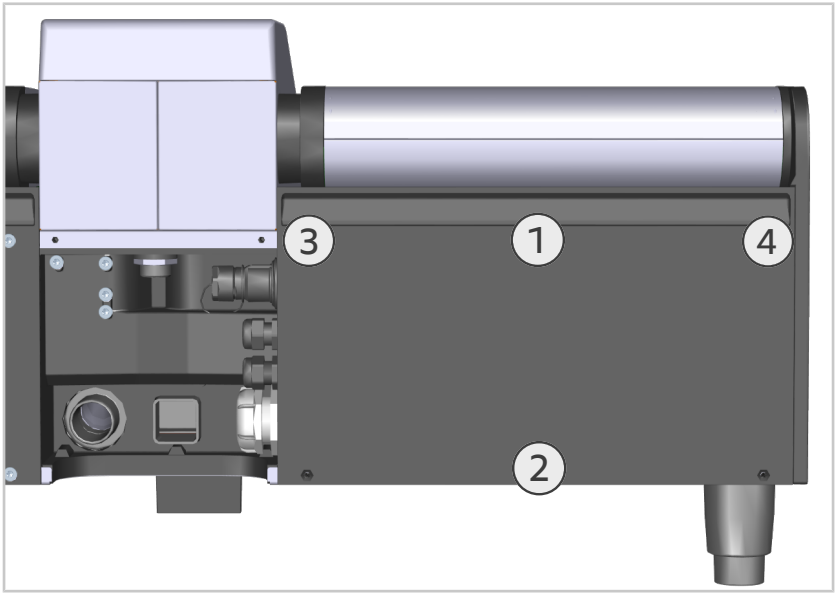
6.6 Closing the electrical compartment

✔ The power cable is connected to the device.

1. Place the cover on the electrical compartment.

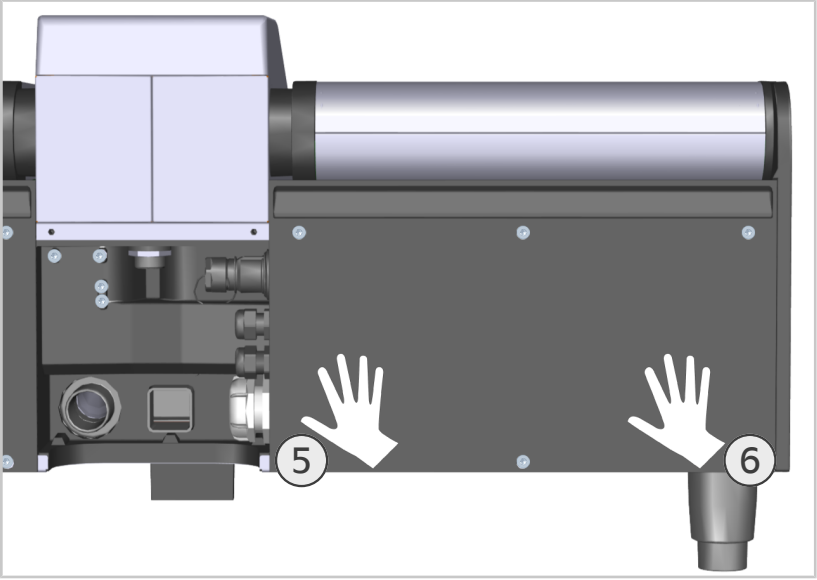


2. Insert the screws.
3. Tighten the screws (1), (2), (3) and (4) one after the other.



4. Insert the screws (5) and (6).

5. Press lightly on the cover in the area of the relevant screw and tighten the screws (5) and (6) one after the other.
6. Put the silicone caps on the screws.



>> The electrical compartment is closed and protected against water and moisture penetration.

6.7 Connected loads of different voltage types

Maximum connection voltage

- Maximum permissible tolerance for the input voltage: - 10% to 10%
- The device can be used with frequencies of 50 Hz and 60 Hz without technical modifications.

3 AC 440 V	Power kW	Power consumption A	Fuse A	Conductor cross-section AWG
iVario 2-XS	13	17	25	14
iVario Pro 2-S	19	25	35	10

3 AC 208 V	Power kW	Power consumption A	Fuse A	Conductor cross-section AWG
iVario 2-XS	15	48	60	6
iVario Pro 2-S	23	64	70	6

3 AC 240 V	Power kW	Power consumption A	Fuse A	Conductor cross-section AWG
iVario 2-XS	15	35	45	8
iVario Pro 2-S	22	53	70	6

3 AC 480 V	Power kW	Power consumption A	Fuse A	Conductor cross-section AWG
iVario 2-XS	15	18	25	14
iVario Pro 2-S	22	27	35	10

3 AC 440 V / 480 V	Power kW	Power consumption A	Fuse A	Conductor cross-section AWG
iVario 2-XS	13 / 15	17 / 15	25 / 25	14 / 14
iVario Pro 2-S	19 / 22	25 / 27	35 / 35	10 / 10

3 AC 208 V / 240 V	Power kW	Power consumption A	Fuse A	Conductor cross-section AWG
iVario 2-XS	15 / 15	48 / 35	60 / 45	6 / 8
iVario Pro 2-S	23 / 22	64 / 53	70 / 70	6 / 6

6.8 Switch the supply voltage 208 V / 240 V

NOTE

Note that the switching of the supply voltage is only possible on devices with this option.

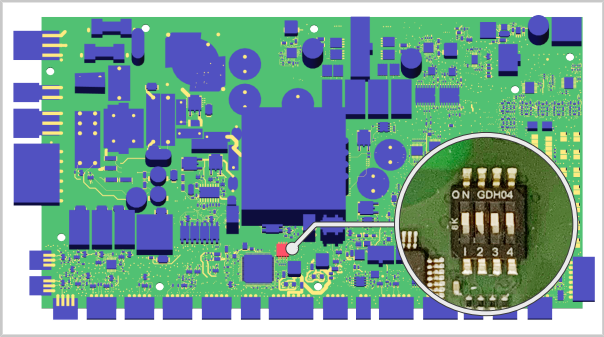
NOTE

Note that, when the switch position 208 V / 240 V is changed, the options in the service level also have to be changed.

- ✔ The device is switched off.
- ✔ All voltage sources are switched off via an external circuit breaker.
- ✔ The electrical compartment is open.

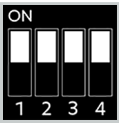
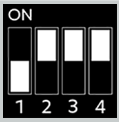
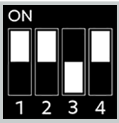
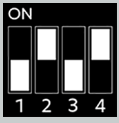
1. Check the supply voltage at the connection.
2. Set the voltage at the dip switch in accordance with the supply voltage.

> The dip switch is located on the I/O board A10 close to the transformer.



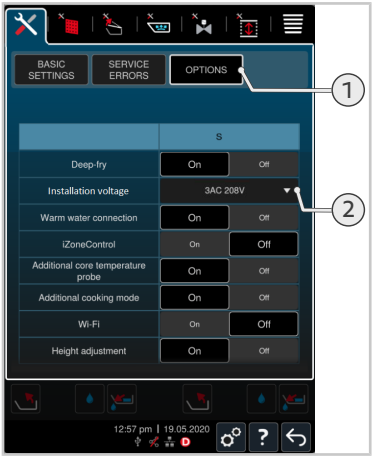
3. The switch position according to the supply voltage can be found in the table below.

> The dip switch is set to the supply voltage 3 AC 208 V as standard in the basic settings.

Unit type	Supply voltage	Switch position
2-S	3 AC 208 V	
2-S	3 AC 240 V	
2-XS	3 AC 208 V	
2-XS	3 AC 240 V	

1. Close the electrical compartment.
2. Connect the unit to mains power.
3. Switch the unit on.

4. Use the control panel to select the service level. Navigate to Options (1) and switch to the relevant supply voltage (2).



5. Switch the unit off and on again. The changes will now be applied.
6. Run a performance check. Verify that the measured performance data matches the setting.

>> The power supply has been successfully switched.

6.9 Switch the supply voltage 440 V / 480 V

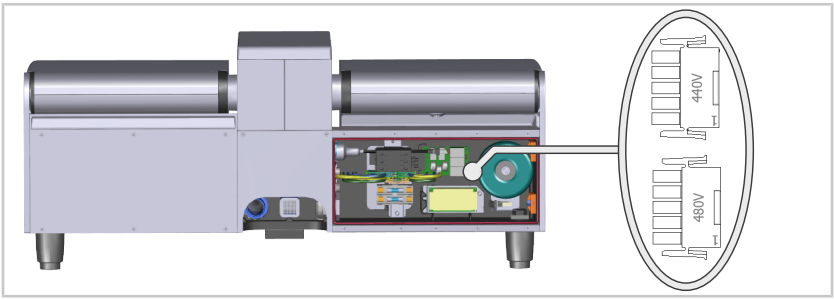
✔ The device is switched off.

✔ All voltage sources are switched off via an external circuit breaker.

✔ The electrical compartment is open.

1. Check the voltage type at the connection.
2. Set the voltage at the 5-pin connector in accordance with the supply voltage.

The connectors are in the electrical compartment next to the toroidal transformer. The power supply is set to 3 AC 440 V as standard.



1. Close the electrical compartment.
2. Connect the unit to mains power.

3. Switch the unit on.
4. Run a performance check. Verify that the measured performance data matches the setting.

>> The power supply has been successfully switched.

7 Network connection

7.1 Notes on the network connection

Via the network connection, you can connect the device to your network in order to connect the device to ConnectedCooking.

Ethernet connection (Local Area Network)

- The device may be equipped or retrofitted with an optional Ethernet connection.
- The retrofit kit is available from the manufacturer under item number 87.01.643S.
- Use a network cable of at least category 6 for connection to the network, specification: CAT-6.
- The network connection is located on the rear side of the device.
- A detailed description of the connection to the network can be found in the original operating manual.

WLAN (Wireless Local Area Network)

The WLAN adapter integrated in the device is a market-dependent option that is not available in every country.

- For devices from the iVario 2-XS series, WLAN is available as an option.
- The devices from the iVario Pro 2-S series have WLAN as standard.

7.2 Connecting the device to the network

Connecting the Ethernet cable (LAN)

1. Unscrew the LAN connection.
2. Unscrew the cap.
3. Remove the sealing plug.
4. Push the Ethernet cable through the union nut.
5. Push the Ethernet cable through the rubber grommet.
6. Push the rubber grommet back into the clamp ring.
7. Connect the Ethernet cable to the connector.
8. Screw on the connection.
9. Tighten the cap.

>> The Ethernet cable is connected and can be used.

8 Water connection

8.1 Regulations for water connection

NOTE

Connection to soft water

When connecting the device to soft water, ensure that the water has a residual hardness of at least 4 °dH. A soft water connection is not required.

Water pipe

- Use a separate tap for each device on-site.
- Do not use used water hoses.
- The water pipe used must at least meet the requirements of NSF51 or equivalent quality.
- A water hose in accordance with NSF51 is included with the device. The materials used for this water pipe comply with the KTW, DVGW W270, FDA regulations.

Drinking water protection

Observe the country-specific standards and regulations for the drinking water network, including hygiene requirements (e.g. International Plumbing Code (IPC) regulations).

Water pressure

- The water pressure (flow pressure) in the supply line is 1,5 bar to 6 bar [22 psi to 87 psi].
- A water pressure of 3 bar [43 psi] is recommended.

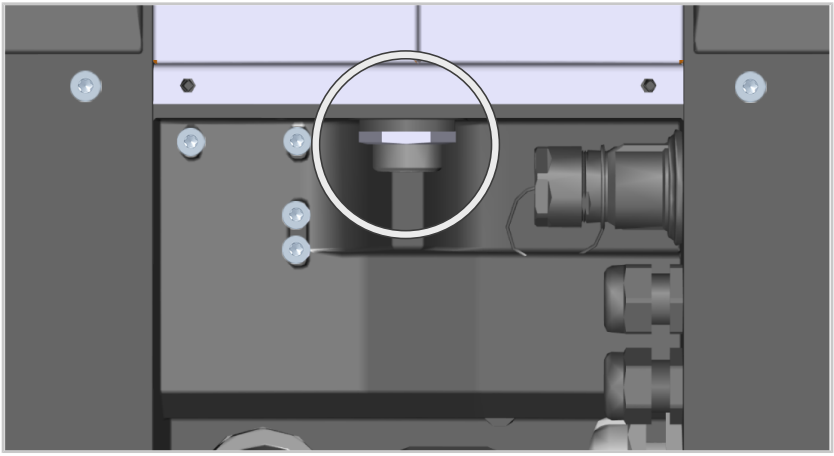
Water temperature

- Cold water max: 30 °C [86 °F]

8.2 Connecting the water inlet

- ✔ The water hose fulfills the hygiene requirements for drinking water hoses in your country.
- ✔ Line for shared cold water connection: 3/4 Inch
- ✔ The water hardness is at least 4°dH.

1. Connect the water hose to the water inlet for the device.



2. Open the tap.

>> The water inlet is connected.

9 Waste water connection

9.1 Regulations for the wastewater connection

NOTE

Drain pipe does not comply with the regulations

Use a steam temperature resistant drain pipe that at least corresponds to a pipe of type PP. Do not use a hose.

NOTE

Contaminated wastewater and wastewater containing grease

Ensure that a grease separator is installed on-site to treat the wastewater.

NOTE

Never seal or pipe the safety overflow

Do not reduce the cross-section of the safety overflow.

The safety overflow but be accessible and clear at all times. It is used for ventilation and as a drain in the event of blockages.

NOTE

Incorrect installation of the drain pipe

Do not glue or weld the drain pipe on to the drain of the device.

Do not connect the drain pipe to the device drain with a reducer.

- A wall drain or floor drain may be used for all devices.
- Use a siphon to avoid rising odors.
- Keep a free drain section of at least 20 mm [3/4 Inch] when using a floor drain without a siphon.
- Connect the drain pipe with a constant incline of at least 5 % or 3°.

Requirements

- Each device must have its own wastewater connection.
- The unit connection kit for drain water type 2-XS, 2-S is **not** included with the device. The kit is available from the manufacturer under item number 87.00.745.
- When installing a stand with electric height adjustment, a flexible unit drain is required. The kit with the flexible device drain DN 40 is included with the stand with electric height adjustment.

9.2 Connecting the wastewater drain

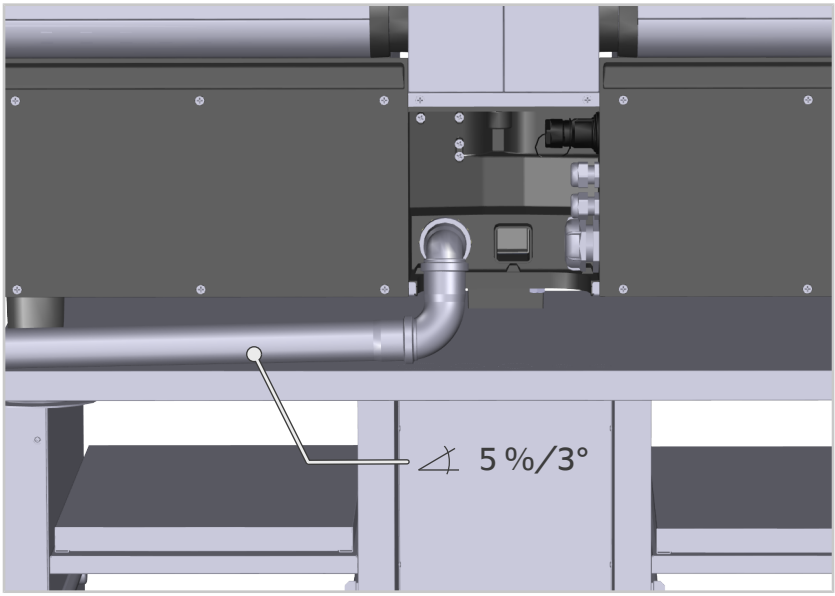
- The wastewater connection is located on the rear side of the device.
- Diameter on the device drain: DN 40 mm

Installing the wastewater connection with drain to the rear side of the device

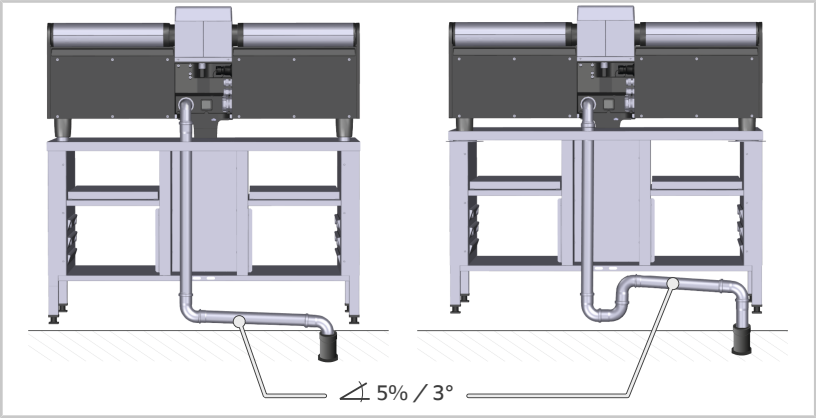
✔ The drain pipe is designed for a DN 40 mm device drain.

✔ The drain pipe corresponds at least to type PP and is steam temperature resistant.

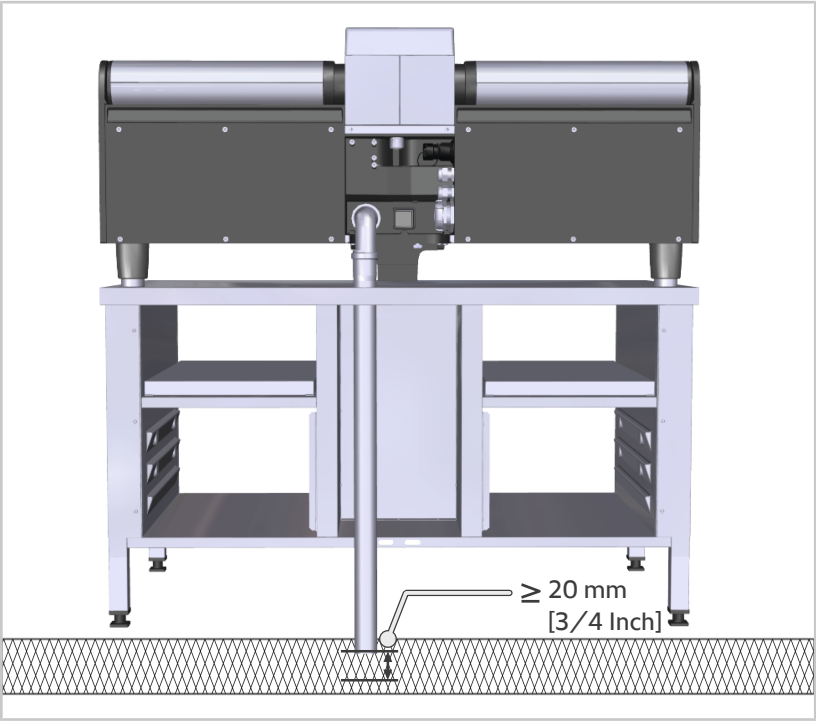
1. Use a 90° elbow as the first pipe piece for the drain pipe.
2. Avoid unnecessary 90° angles in the pipework to ensure optimal water drainage.
3. Connect the drain pipe to the side or leading downwards.



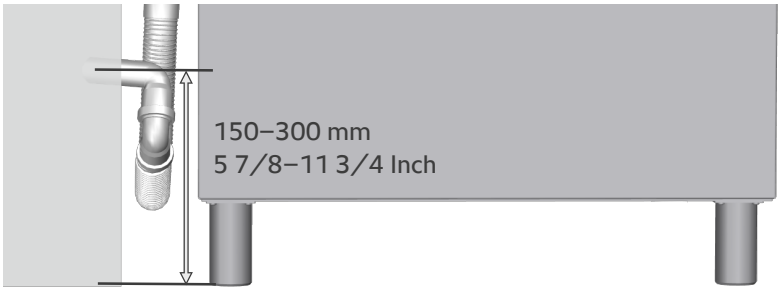
4. When installing the device on a genuine stand, feed the drain pipe through the gap in the stand.



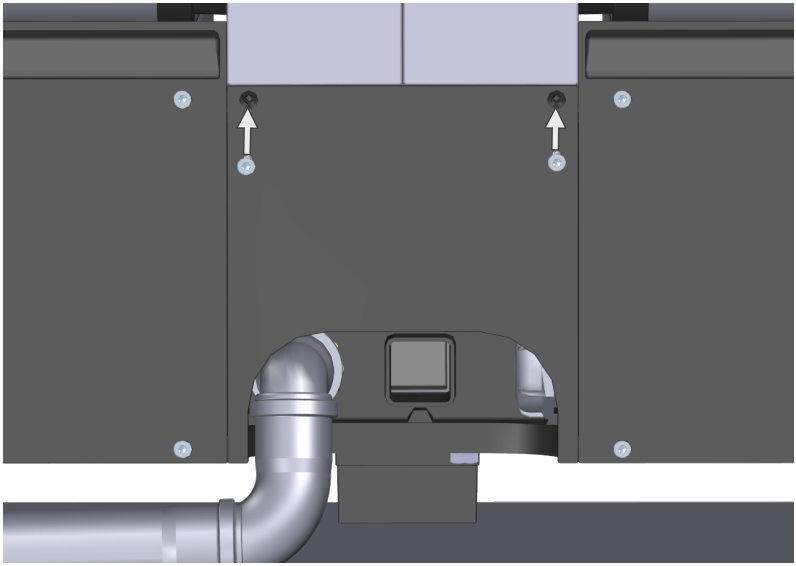
5. Observe a minimum distance of 20 mm [3/4 Inch] between the drain channel and waste water drain. The manufacturer recommends a minimum distance of 50 mm [2 Inch] to make cleaning easier.



6. When connecting the drain pipe in the wall, the installation altitude must be between 150–300 mm [5 7/8–11 3/4 inch].



7. Position the cover and screw in the 2 screws.



>> The drain pipe is connected watertight to the unit drain.

>> The drain pipe is connected with a constant incline of at least 5 % or 3°.

>> The cover for the connections is screwed on to the device.

Installing the wastewater connection with drain to the front side of the device

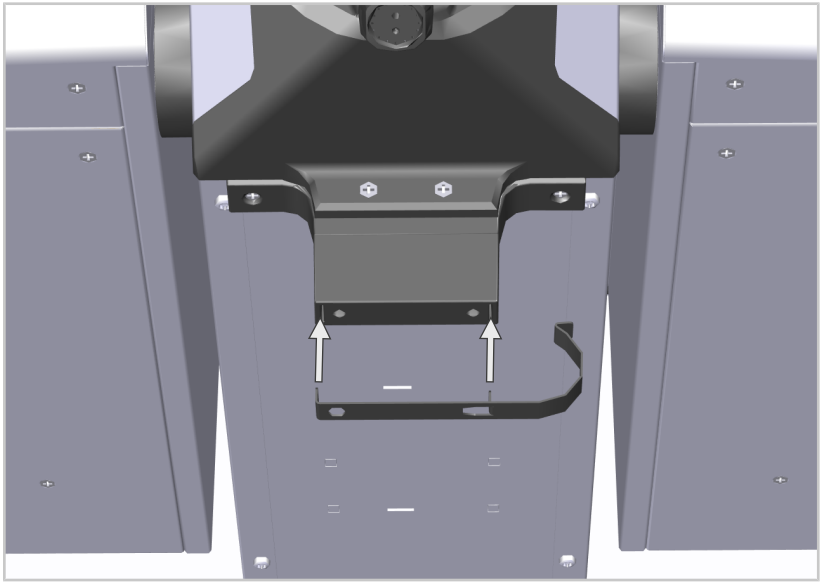
When installing the wastewater drain to the front side of the device, a device foot height of 90 mm [3 1/2 Inch] is required.

The drain pipe is fixed on the adjustable foot with a mounting clip. The fixing for the wastewater pipe is included in the device connection kit.

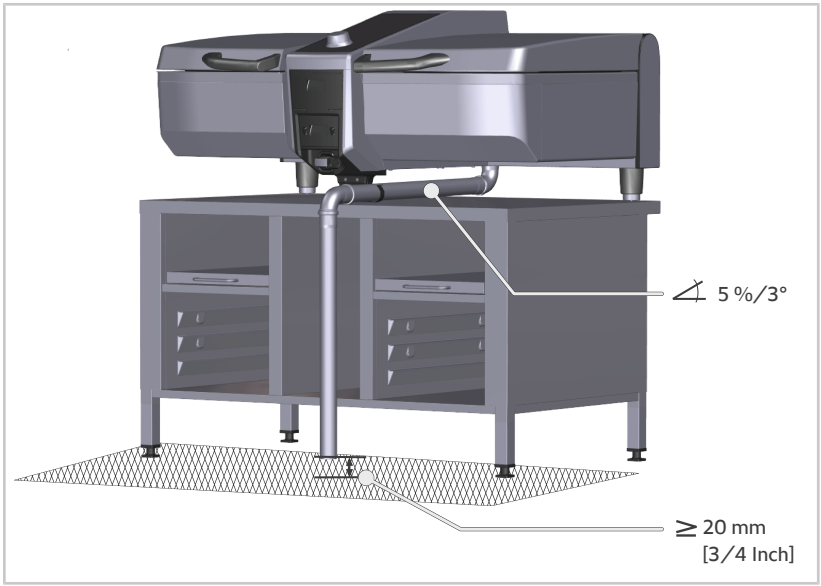
✔ The adjustable foot is mounted with a height of 90 mm [3 1/2 Inch].

✔ There is a drainage channel with a waste grating in front of the device.

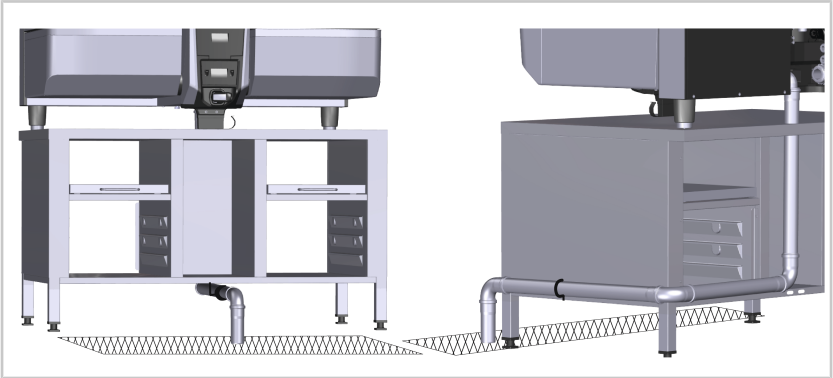
1. Insert the mounting clip in the gaps in the adjustable foot.



2. Connect the drain pipe DN 40 mm with a constant incline of at least 5 % or 3° and route it through the mounting clip to the front side of the device.
3. Observe a minimum distance of 20 mm [3/4 Inch] between the drain channel and waste water drain. The manufacturer recommends a minimum distance of 50 mm [2 Inch] to make cleaning easier.



4. When installing the device on a genuine stand, the drain pipe can be fixed to the stand with a bracket.



>> The drain pipe is installed with an incline of at least 5 % or 3° with the drain to the front.

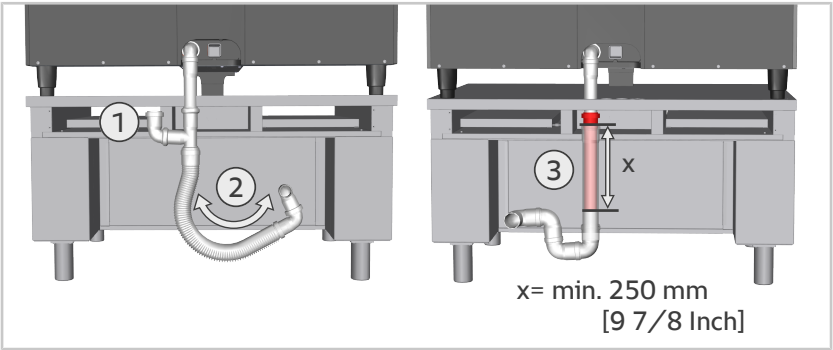
>> The minimum distance between the drain pipe and drain channel is observed.

Recommendation of the manufacturer for the installation of devices with stand with electric height adjustment

✔ The unit connection kit for drain water type 2-XS, 2-S is on hand.

✔ The installation altitude on the wall is between 150 mm and 300 mm.

1. Connect an additional ventilation pipe for connections with a flexible hose (1).
2. Connect the flexible hose in a U-shape (2).
3. Instead of a flexible hose, the drain connection can also be connected pipe (DN40) in pipe (DN50) (3). The two pipes must overlap by at least 250 mm [9 7/8 inch] so that the higher pipe (DN40) can not slide out during height adjustment.



10 Decommissioning

10.1 Notes on decommissioning

Observe the following when decommissioning the device:

- Ensure that the device is disconnected from the power supply and is de-energized.
- Remove all water and wastewater connections from the device.
- If the device is to be transported, remove the device from the foot locking mechanisms and from any wall mountings (mounting chain).
- Note that water remains in the device after decommissioning. Frozen water expands and can damage the device. Observe the general safety information in this manual.

10.2 Disposal

Electrical and electronic devices such as the iVario and iVario Pro must be disposed of separately.

1. Do not dispose of the device as household waste or in the old equipment container at municipal connection points.
2. Observe the country-specific regulations for device disposal.
3. Where necessary, contact the manufacturer for further information on disposal.

11 Options

11.1 Setup options

The device can be set up with the following options and ordered from the manufacturer under the following item numbers:

Unit size	iVario 2-XS	iVario Pro 2-S
Stand with feet	60.31.221	60.31.319
Stand with castors	60.31.317	60.31.320
Stand with stainless steel feet	60.31.538	60.31.539
Stand with electric height adjustable feet	60.31.326	60.31.327

Observe the descriptions and notes in the original installation manual for the stand for device sizes 2-XS / 2-S .

RATIONAL AG
Siegfried-Meister-Straße 1
86899 Landsberg am Lech, Germany
Tel. +49 (0)8191 3270
Fax +49 (0)8191 21735
info@rational-online.com
rational-online.com

RATIONAL Wittenheim SAS
4 Rue de la Charente
F-68270 Wittenheim
Tel. +33 389 570 135
Fax. +33 389 570 136
info@rational-online.com
rational-online.com

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