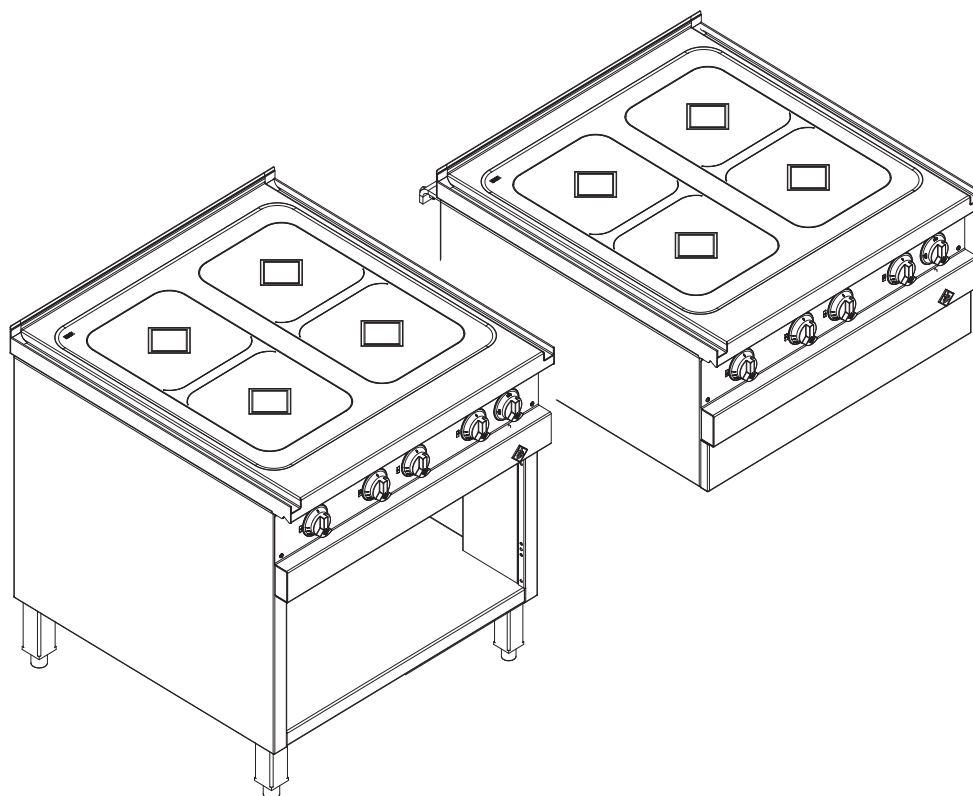




Read the operating instructions prior to commissioning

Installation instructions

Cooker



Unit	Type of energy	Unit type	Model
Vitro cooker with glass ceramic cooktop	Electric	Floor-standing unit	OPEHEV... O7EHEV... HLEHEV...
		Suspended unit	OIEHEV...
		Countertop unit	SLEHEV... CVEHEV...

Manufacturer

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1 Introduction

1.1 About this manual

Figures All figures in this manual are intended as examples. Discrepancies between these and the actual unit can arise.

Target group The target group for the installation manual is trained technical personnel that is familiar with installing and operating the unit.
The instruction manual is part of the unit and contains information on safe installation of the unit.

Observe and adhere to the following instructions:

- Read the instruction manual in its entirety prior to installation.
- Make the instruction manual available to the installer at the operating site at all times.
- Preserve the installation manual throughout the service life of the unit.
- Insert any supplements from the manufacturer.
- Pass on the installation manual to any subsequent operator of the unit.

1.1.1 Explanation of signs



DANGER
Imminent threat of danger

Failure to comply will lead to death or very severe injuries.



WARNING
Possible threat of danger

Failure to comply can lead to death or very severe injuries.



CAUTION
Dangerous situation

Failure to observe precautions can result in slight to moderately severe injuries.

ATTENTION
Physical damage

Failure to comply can cause physical damage.



Notes for better understanding and operation of the unit.

Symbol / sign	Meaning
•	Listing of information.
→	Action steps, which can be performed in any sequence.
1. 2.	Action steps, which must be performed in the specified sequence.
↳	Result of an action performed.

1.2 Use of the unit

This unit is not intended for the US and Canadian markets. It is not permitted to be used there.

This unit is intended to be used solely for commercial purposes, particularly in commercial kitchens.

1.3 Warranty

The warranty is void and safety is no longer assured in the event of:

- Modifications or technical changes to the unit,
- Improper use,
- Incorrect startup, operation or maintenance of the unit,
- Problems resulting from failure to observe these instructions.

2 Safety information

The unit complies with applicable safety standards. Residual risks associated with operation or risks resulting from incorrect operation cannot be ruled out and are mentioned specifically in the safety instructions and warnings.

The installer must be familiar with regional regulations and observe them.

The installer must observe the safety instructions in these mounting instructions and in the "Safety information" chapter of the operating instructions.

Ensuring conformity with standards

Observe applicable international, European and national laws, regulations, standards and directives for the unit when transporting, setting up and connecting it.

Improper installation

Risk of property damage and personal injury from improper installation

- Install the unit only as specified in these installation instructions.
- Do not add anything to the unit or modify the unit.
- Use only original spare parts.

Transportation and storage

Risk of personal injury and property damage from improper transportation and improper storage

- Store the unit in a dry, frost-free environment.
- Observe the safety regulations for the lifting gear used.
- Attach the unit to the lifting gear securely during transport and setup, and prevent it from dropping.
- Transport the unit in an upright position, do not tilt or stack.
- Pay attention to protruding parts when transporting the unit without packaging.

Fire prevention

Risk of fire from combustible surfaces

- Observe general fire prevention regulations.
- When setting up the unit in close proximity to heat-sensitive substances or substances that pose a risk of fire, observe fire prevention regulations.

Organisational measures

Risk of property damage and personal injury from lack of organizational measures

- Identify hazard areas when transporting, setting up and connecting the unit.
- Prior to starting the installation work, notify any operators present about the procedure.
- Prior to starting the installation work, discuss how to behave in an emergency.

- Use equipment and protective gear suitable for the activity.
- Brace housing components to prevent them from falling over and dropping.

Setup Risk of property damage and personal injury from improper setup

- Ensure that the installation area has adequate load-bearing capacity.
- Ensure that the unit is stable when set up and aligned.
- Where safety shoes and protective gloves.

Electrical connection Risk of fire from improper connection

- Observe applicable regional regulations of the electrical utility.
- Ensure that only electricians licensed by the electric utility connect the unit.
- Ensure that the electrical system is earthed by a protective earthing conductor.
- Note the information on the nameplate.

Risk of electric shock from live components.

- Prior to working on the electrical system, switch off the unit, disconnect the electrical system from the mains and prevent power from being switched on again. Check to ensure absence of voltage.
- Use only insulated tools.
- Do not put a unit with damaged operating elements into service.

Risk of electric shock

- The unit must be incorporated into the potential equalisation circuit through use of the specified minimum wire sizes.

Unit on casters Risk of a line breaking if subjected to high tensile load

- Secure the unit with a chain as a strain relief for the power connection at the installation site so that no tensile load is applied to the power connection if the unit is moved.

Additional connection work Risk of physical damage and personal injury from improper connection

- Prior to working on the unit, switch off the unit, disconnect the unit from the mains and prevent power from being switched on again. Check to ensure absence of voltage.
- Route connection lines such that they cannot be damaged from heat.

Concluding activities **Risk of damage to property and personal injury from improper connections**

- Reactivate all safety devices and check that they function properly.

Commissioning **Risk of property damage and personal injury from improper commissioning**

- Read the operating instructions prior to commissioning. Observe the safety instructions in this installation manual and in the "Safety information" chapter of the operating instructions.
- Put the unit into service only after a successful function test following assembly.
- Put the unit into service only after it has reached room temperature.
- Observe the units during operation.

3 Description of the unit

3.1 Overview of the unit

3.1.1 Floor-standing unit

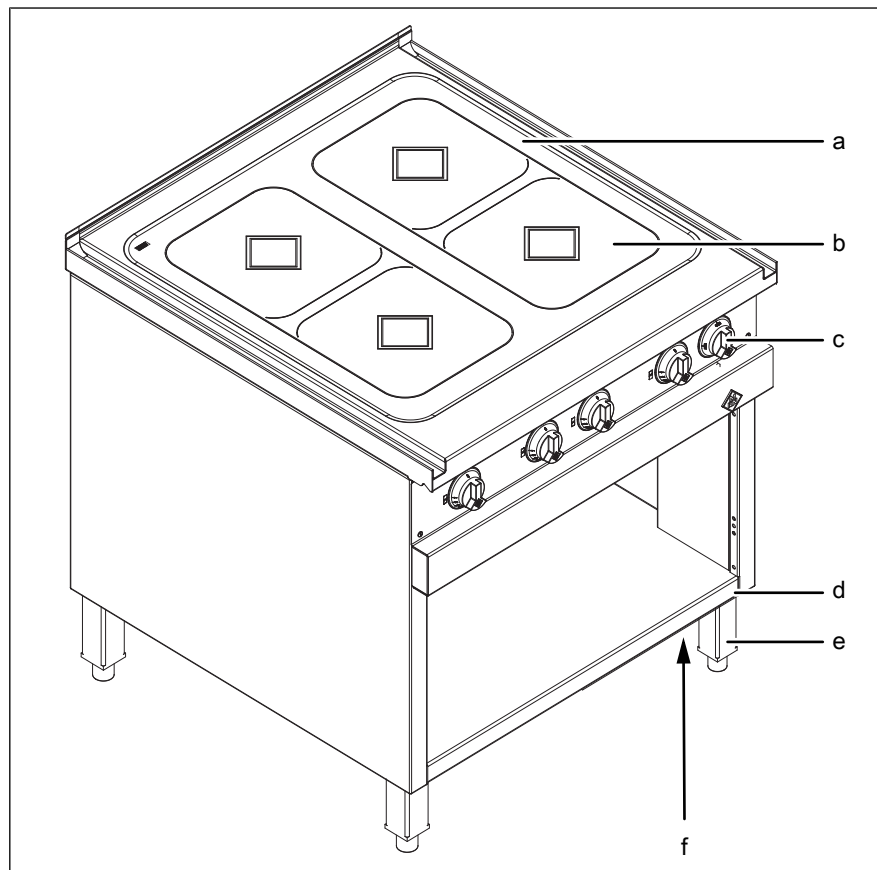


Image: Vitro cooker with glass ceramic cooktop

- | | |
|-------------------------|----------------------------|
| a Glass ceramic cooktop | d Nameplate |
| b Heat zone | e Equipment leg (optional) |
| c Control panel | f Power connection |

3.1.2 Suspended unit

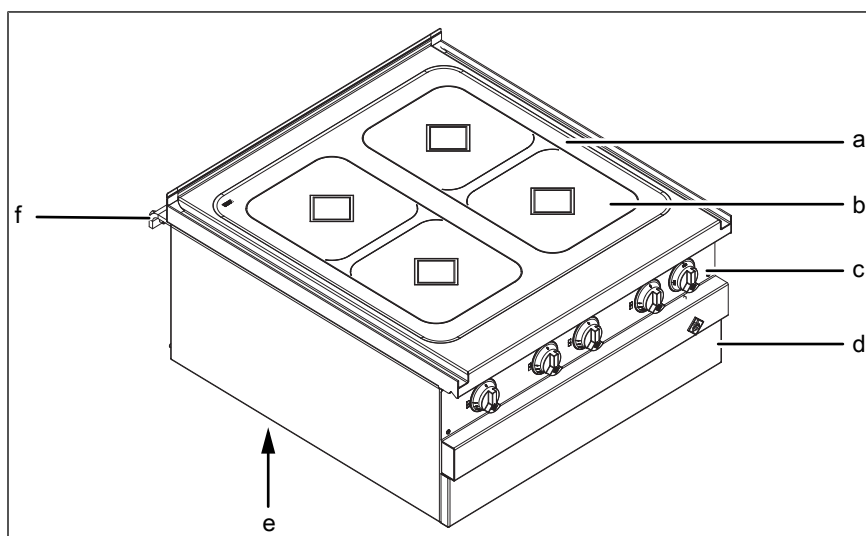


Image: Vitro cooker with glass ceramic cooktop

- | | |
|-------------------------|--------------------|
| a Glass ceramic cooktop | d Nameplate |
| b Heat zone | e Power connection |
| c Control panel | f Suspension mount |

3.1.3 Countertop unit

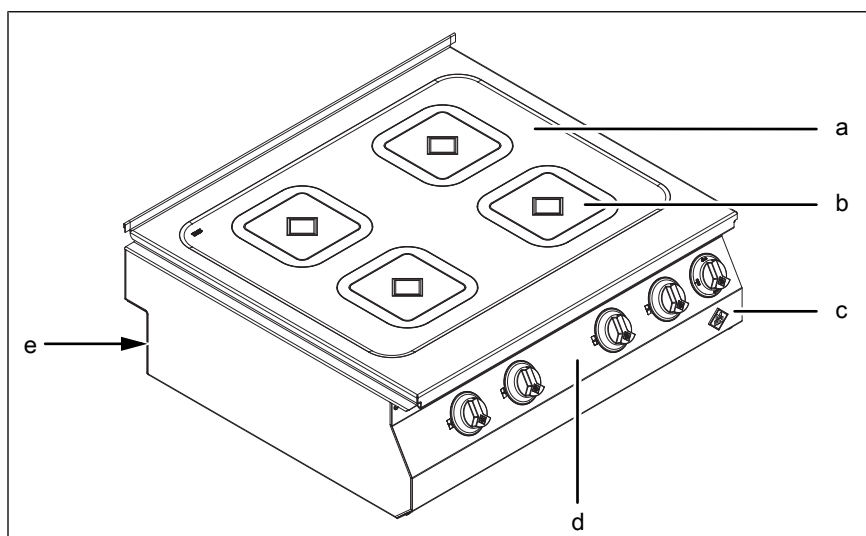


Image: Vitro cooker with glass ceramic cooktop

- | | |
|-------------------------|--------------------|
| a Glass ceramic cooktop | d Control panel |
| b Heat zone | e Power connection |
| c Nameplate | |

3.2 Equipment and connection data

Vitro electric cooker	Model			
	Optima 850		Optima 700	
	OPEHEV2	OPEHEV4	O7EHEV2	O7EHEV4
Dimensions				
Length x width x height (mm)	500 x 850 x 700	800 x 850 x 700	400 x 700 x 700	800 x 700 x 700
Weight				
Weight (kg)	48	66	45	70
Heat output				
Latent (W)	640	1280	368	736
Sensible (W)	1600	3200	920	1840
Noise level (db(A))	< 70			
Ambient climate	5 – 40 °C, 95 % relative humidity, non-condensing			
Power connection				
Type of connection	3NPE 400 V AC 50/60 Hz			
Protection class	IPX5			
Connected load (kW)	8	16	4.6	9.2
Recommended fuse (A)	3 x 20	3 x 32	3 x 16	3 x 25

Vitro electric cooker	Model			
	Hotline		Optima 850i	
	HLEHEV2	HLEHEV4	OIEHEV2	OIEHEV4
Dimensions				
Length x width x height (mm)	400 x 700 x 700	800 x 700 x 700	500 x 850 x 400	800 x 850 x 400
Weight				
Weight (kg)	54	67	36	59
Heat output				
Latent (W)	368	736	640	1280
Sensible (W)	920	1840	1600	3200
Noise level (db(A))	< 70			
Ambient climate	5 – 40 °C, 95 % relative humidity, non-condensing			
Power connection				
Type of connection	3NPE 400 V AC 50/60 Hz			
Protection class	IPX5			
Connected load (kW)	4.6	9.2	8	16
Recommended fuse (A)	3 x 16	3 x 25	3 x 20	3 x 32

Description of the unit

Vitro electric cooker	Model			
	Counter Vario		Counter Snack Line	
	CVEKOV1	CVEKOV2	SLEKOV2	SLEKOV4
Dimensions				
Length x width x height (mm)	480 x 540 x 200	680 x 380 x 200	700 x 400 x 270	700 x 800 x 270
Weight				
Weight (kg)	15	20		38
Heat output				
Latent (W)	320	368		736
Sensible (W)	800	920		1840
Noise level (db(A))	< 70			
Ambient climate	5 – 40 °C, 95 % relative humidity, non-condensing			
Power connection				
Type of connection	3NPE 400 V AC 50/60 Hz			
Protection class	IPX5			
Connected load (kW)	4	4.6		9.2
Recommended fuse (A)	3 x 16			3 x 25

4 Transporting the unit

4.1 Transporting the unit to the installation site

**CAUTION**

Risk of property damage and personnel injury from tipping equipment

- Do not linger next to or behind raised equipment.
- Move raised equipment carefully.

ATTENTION

Risk of physical damage from improper transport

- Transport the unit upright.
- Do not tilt or stack the unit.
- Pay attention to protruding parts when transporting the unpacked unit.

ATTENTION

Risk of physical damage from improper transport

- Lift unpacked floor-standing unit in the vicinity of the equipment legs.

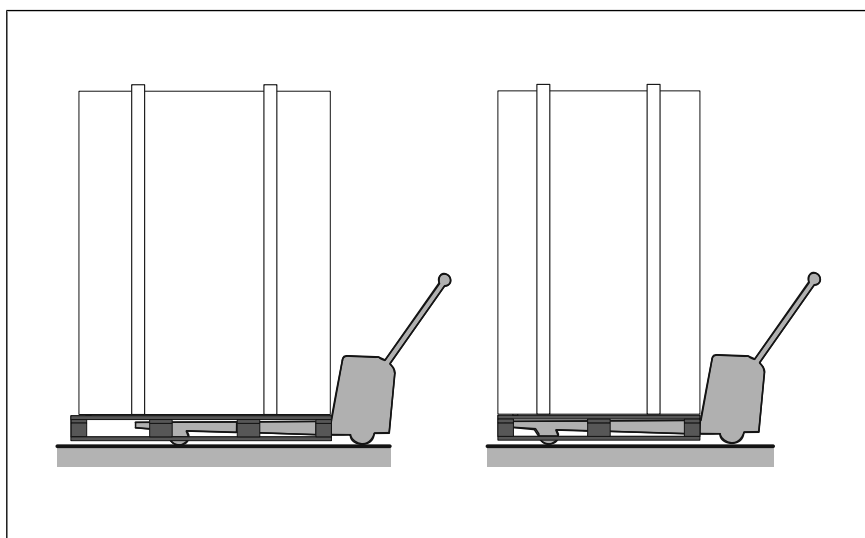


Image: Lengthwise and crosswise transport on pallet

→ Use suitable transport means to move unit to installation site.

4.2 Unpacking the unit



CAUTION**Risk of injury from sharp edges**

- Wear protective gloves.
-



When unpacking the unit, inspect it for transport damage.

Do not install damaged units or put into service.

1. Remove the packaging.
2. Pull the protective film off the unit.
3. Clean the unit (see "Cleaning and maintaining the unit" in the operating instructions).
4. Enter the information from the nameplate into the commissioning report.

5 Setting up the unit

Equipotential bonding

The unit must be included in a potential equalisation system.



CAUTION

Risk of fire from failure to observe applicable regional fire prevention regulations

- Observe applicable regional fire prevention regulations.



CAUTION

Risk of crushing from improper setup

- Protect the unit and work area during setup and alignment.

ATTENTION

Risk of physical damage from overheating of the unit

- Do not set up the unit close to heat sources.

Planning drawing

The planning drawing and additional documents are available on the manufacturer's Internet page by entering the equipment number (see Impressum).

5.1 Attaching and removing equipment legs



WARNING

Risk of injury from falling unit

- Secure the unit adequately when lifting and lowering.
- Do not linger under the unit when lifted.

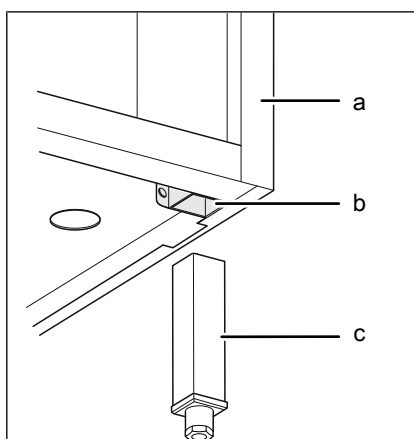


Image: Equipment leg

a Unit
b Leg socket

c Equipment leg

5.1.1 Attaching equipment legs

1. Use appropriate lifting gear to lift the unit.
2. Insert the supplied screw into the opening of the leg socket and turn the nut loosely on it.
3. Push the equipment leg into the leg socket as far as possible.
4. Tighten the screw of the leg socket.

5.1.2 Removing equipment legs

1. Use appropriate lifting gear to lift the unit.
2. Release and remove the screw and nut of the leg socket.
3. Pull out the equipment leg.

5.2 Placing the unit on the equipment legs

ATTENTION

Risk of physical damage from improper transport

- When transporting the unit without packaging, pay attention to protruding equipment components (e. g. handles).
-

Requirement The floor must support the weight of the unit

1. Use appropriate lifting gear to lift the unit.
2. Set up the unit in accordance with the planning drawing.
3. Align the unit lengthwise and crosswise (see "Aligning the unit").

5.3 Setting up the unit on the base

ATTENTION

Risk of physical damage from improper transport

- When transporting the unit without packaging, pay attention to protruding equipment components (e. g. handles).
-

ATTENTION

Risk of physical damage from improper transport

- Lift unpacked floor-standing unit in the vicinity of the equipment legs.
-

Requirement The floor must support the weight of the unit

1. If the base is not horizontal, identify the highest area of the base and start the setting-up procedure there.
2. Use appropriate lifting gear to lift the unit.
3. Lift the unit over the power connection cables and set it up in accordance with the planning drawing.
4. Align the unit lengthwise and crosswise (see "Aligning the unit").

5.4 Setting up the unit on a work surface



CAUTION

Risk of fire from improper installation

- Set up the unit only on a non-combustible surface.

Requirement The work surface must support the weight of the unit
Work surface levelled

1. Lift the unit.
2. Place the unit on the work surface.

5.5 Aligning the unit on the equipment legs

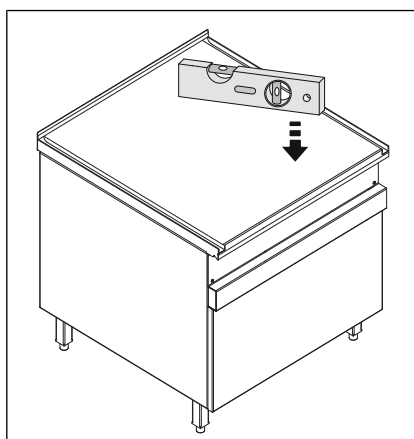


Image: Aligning a floor-standing unit

Requirement Floor is level

1. Place a spirit level on the covering of the unit.
2. Align the unit horizontally by screwing the equipment legs in or out.

5.6 Aligning the unit on the base

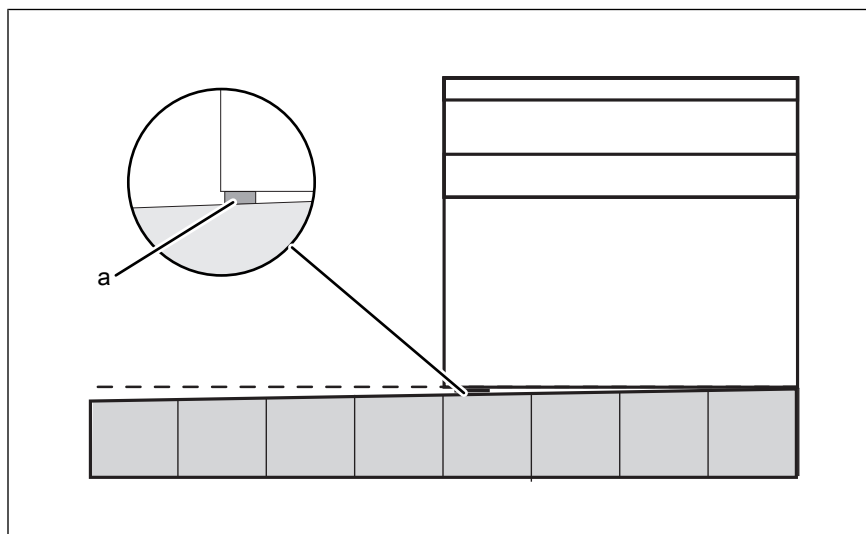


Image: Aligning the unit

a Spacer

1. Use appropriate lifting gear to lift the unit.
2. Use suitable spacers to correct for uneven areas and level the unit lengthwise and crosswise.

5.7 Connecting the unit

5.7.1 Connecting the floor-standing unit

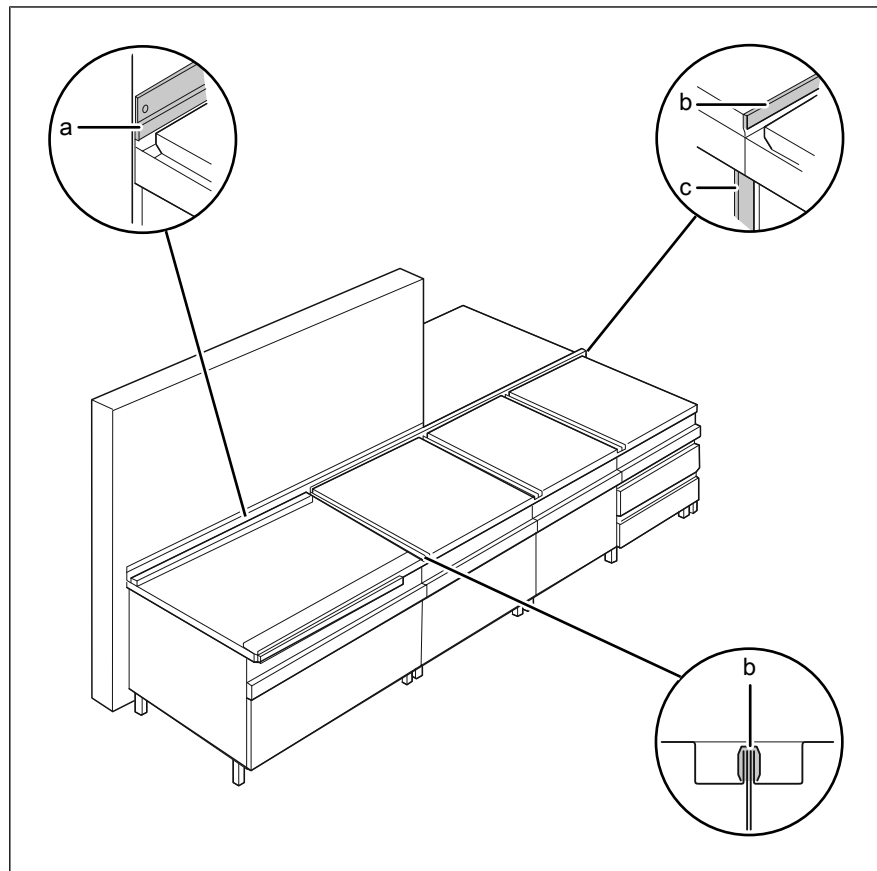


Image: Connecting a floor-standing unit

a Wall attachment profile

c Cover plate

b Connecting profile

→ When setting up with other equipment from the same manufacturer, use end and connecting profiles.

5.7.2 Connecting the countertop unit

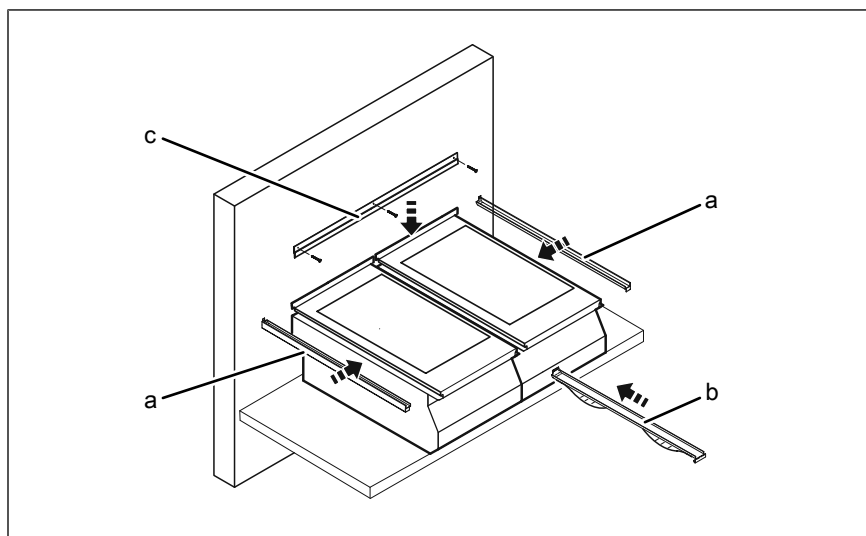


Image: Connecting countertop units

- a End profile
- b Connecting profile
- c Wall attachment profile

→ When setting up with other equipment from the same manufacturer, use end and connecting profiles.

6 Suspending the unit



CAUTION

Risk of fire from failure to observe applicable regional fire prevention regulations

- Observe applicable regional fire prevention regulations.



CAUTION

Risk of crushing from improper suspension

- Protect the unit and work area when suspending and aligning the unit.



CAUTION

Crushing risk from heavy weight

- Use suitable lifting gear to raise and lower the unit.

ATTENTION

Risk of damage to property from heat sources

- Do not suspend the unit above heat sources.

Planning drawing

The planning drawing and additional documents are available on the manufacturer's Internet page by entering the equipment number (see Impressum).

6.1 Suspending the unit from an installation bridge

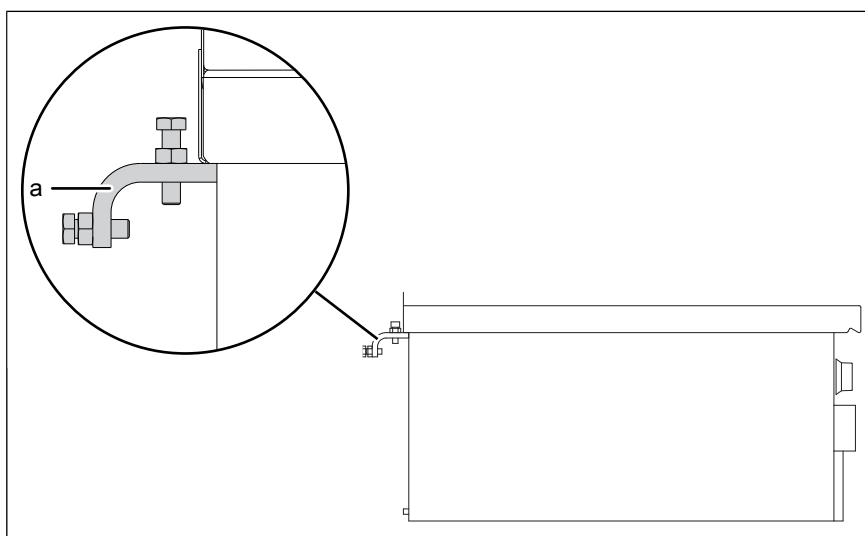


Image: Suspended unit

a Suspension hooks

Requirement The wall must support the weight of the unit

Installation duct cover panel removed

Installation bridge installed

Cover sheets of installation bridge removed

1. Raise unit on pallet and move in front of installation bridge.
2. Pull power connection cables into the housing.
3. Using the suspension hooks, suspend the unit on the installation bridge.
4. Suspend the unit in accordance with the planning drawing.
5. Align the unit lengthwise and crosswise (see "Aligning the unit").
6. Attach cover sheets to installation bridge.

6.2 Aligning the unit

ATTENTION

Risk of damaging the adjusting screws from heavy load

- Relieve load on unit before aligning.

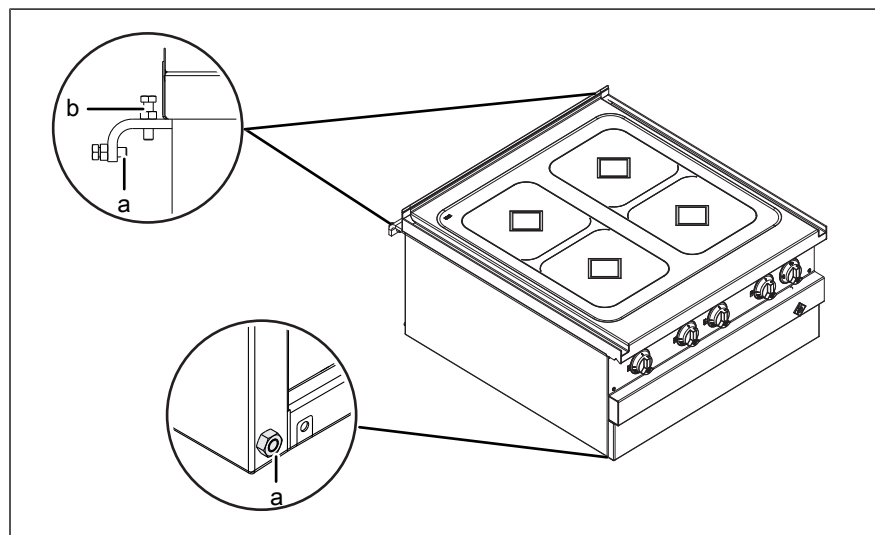


Image: Aligning the unit

a Adjusting screws for cross direction

b Adjusting screws for lengthwise direction

Requirement Installation duct cover panel removed

Cover sheets of installation bridge removed

1. Place spirit level on the unit in the lengthwise direction.
2. Level unit in the lengthwise direction with the adjusting screws.
3. Place spirit level on the unit in the cross direction.
4. Level unit in the cross direction with the adjusting screws.
5. Tighten the lock nuts to secure the setting.
6. Attach cover sheets to installation bridge.

6.3 Connecting the unit

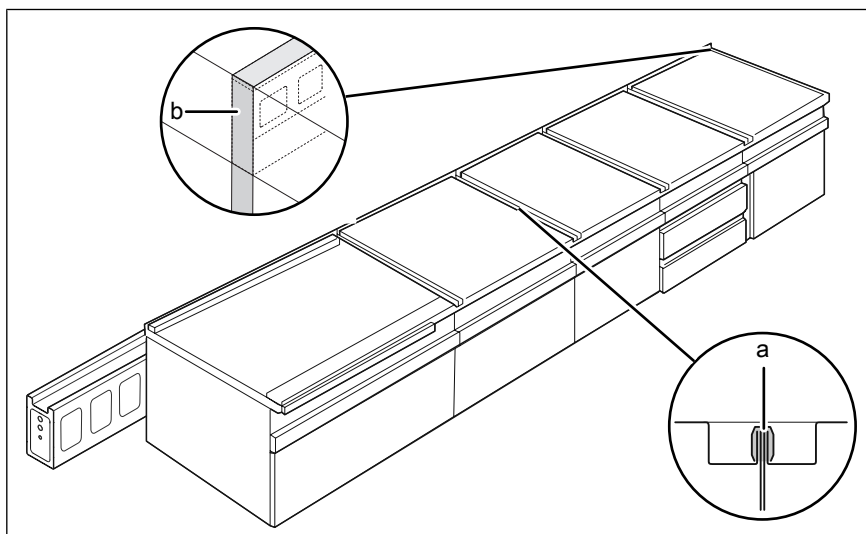


Image: Connecting a suspended unit

a Connecting profile

b Cover plate

→ When suspending with other equipment from the same manufacturer, use connection and connecting profiles.

7 Connecting the unit



DANGER

Risk of personal injury and physical damage from electric shock

- Prior to working on the unit, ensure that the unit has been disconnected from the mains.
- Do not operate the unit with the housing open.



CAUTION

Risk of injury from sharp edges

- Wear protective gloves.

ATTENTION

Risk of physical damage from damage to the lines

- Remove and attach housing components carefully.

7.1 Opening and closing the housing

ATTENTION

Risk of physical damage from damage to the seals

- Check seals when attaching the housing parts.
- Change damaged seals.

7.1.1 Removing and attaching the cover panel for the connection terminals on the floor-standing unit

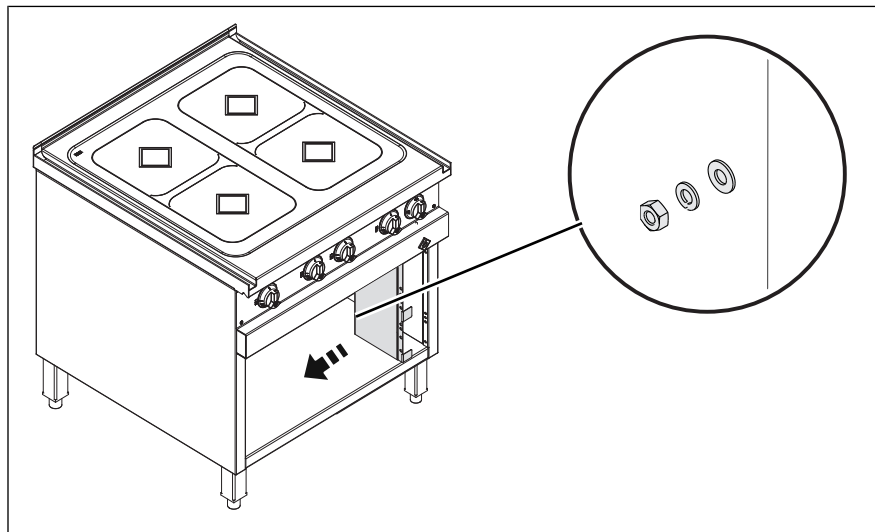


Image: Cover panel for connection terminals

Removing the cover panel for the connection terminals

1. Slacken the nuts on the cover panel.
2. Remove the cover panel.

Attaching the cover panel for the connection terminals

1. Slide the cover panel behind the inverted edge and guide it over the bolts.
2. Fasten the cover panel with the nuts.

7.1.2 Removing and attaching the cover panel for the connection terminals on the suspended unit

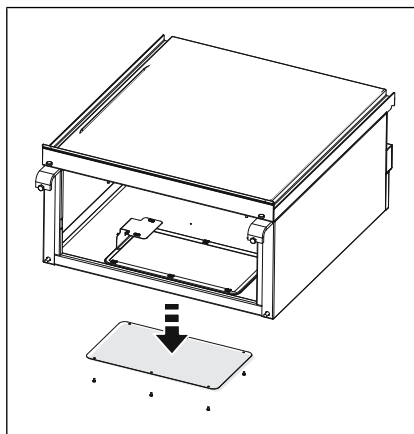


Image: Removing the cover panel over the connection terminals

Removing the cover panel for the connection terminals

1. Loosen screws in cover panel over the connection terminals.
2. Remove the cover panel over the connection terminals.

Attaching the cover panel for the connection terminals

→ Press the panel into place and fasten it.

7.1.3 Removing and attaching the cover panel of the installation duct on the suspended unit

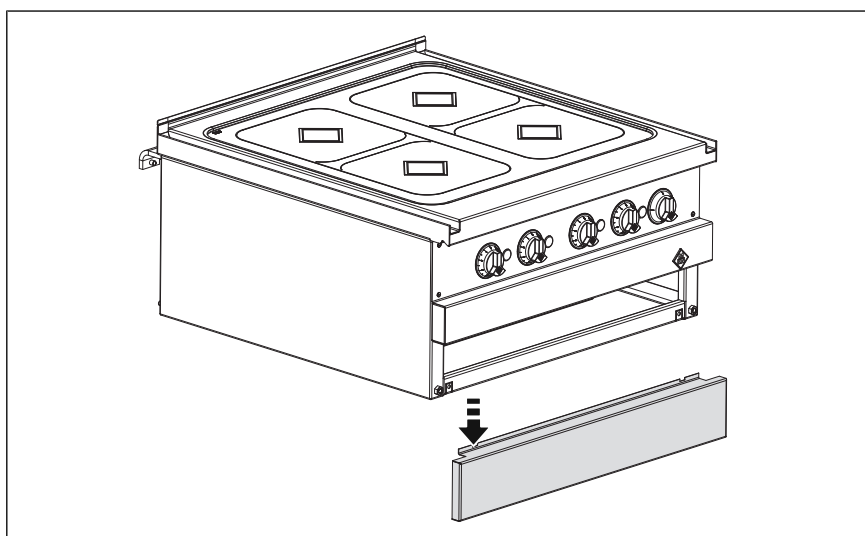


Image: Cover panel of installation duct

Removing the cover panel of the installation duct

1. Unscrew and remove the screws at the left and right under the panel.
2. Carefully pull the panel downward.

Attaching the cover panel of the installation duct

1. Slide the cover panel behind the inverted edge and press it into place.
2. Secure the cover panel with screws.

7.2 Establishing the power connection

The unit must be connected on the basis of the information on the nameplate and this manual.

Wiring diagram

The wiring diagram is included with the unit.

The wiring diagram and additional documents are available on the manufacturer's Internet page by entering the serial number of the unit (see Impressum).

Installation work

Electrical installation work must be carried out by an electrician. Comply with the local regulations of the electrical utility company.

Power connection cable

Minimum requirements for the unit's power connection cable to the electric mains:

Connection	Power connection cable
Permanent connection for fixed installation with a cable from the unit to a separate connection box.	Rubber sheath cable, oil-resistant, shrouded and flexible in accordance with IEC 60245-57 (for example H05RN-F).
Connection of the unit with a plug.	
Permanent connection for fixed installation with a permanently laid cable and direct connection to the unit.	PVC sheathed cable for permanent ducting in buildings or damp and wet rooms.

Residual-current protective device

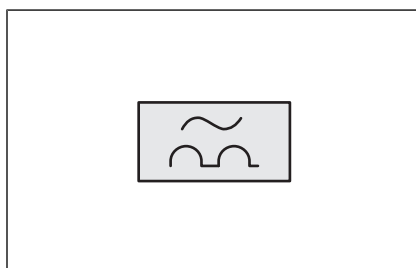


Image: RCD switch type A circuit symbol

The unit can be connected to a residual-current protective device.

If a residual-current circuit breaker is used, the residual-current circuit breaker installed must be type A (RCD type A) to ensure that AC fault currents and pulsating DC fault currents are detected.

Equipotential bonding

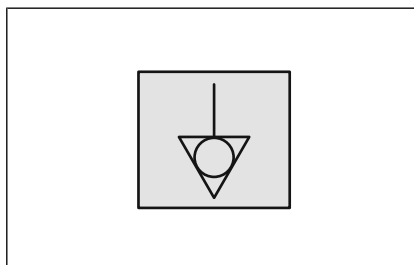


Image: Equipotential bonding symbol

The unit must be included in a potential equalisation system by means of appropriately sized wiring.

Permanent connection



CAUTION

Risk of property damage and personal injury from improper installation

- In the case of a permanent electrical connection, install an all-phase disconnect switch before the unit.

Install an all-phase disconnect switch if the unit will be connected permanently to the electric mains.

Disconnecter

An all-phase disconnecter with a contact gap of at least 3 mm must be installed in order to disconnect the unit from the electric mains at any time.

7.2.1 Connecting the power connection cable (floor-standing unit)



DANGER

Risk of personal injury and physical damage from electric shock

- Prior to working on the unit, ensure that the unit has been disconnected from the mains.
- Do not operate the unit with the housing open.

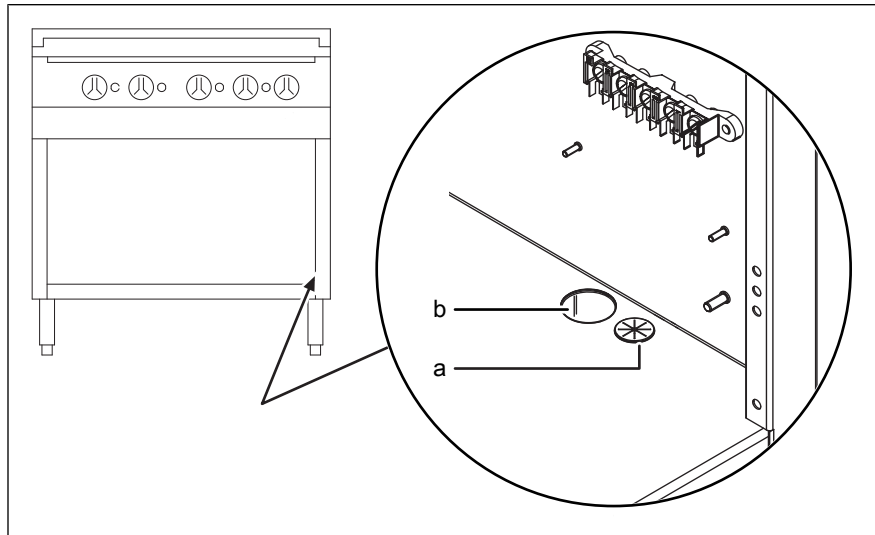


Image: Power connection

a Feeding the connection for power optimisation

b Feeding the power connection

Requirement Cover panel over connection terminals removed

1. Insert the electric power cable into the unit.
2. Connect the electric power cable in accordance with the wiring diagram.
3. Close the housing (see "Opening and closing the housing").
4. Fill out the commissioning report.

7.2.2 Connecting the power connection cable (suspended unit)



DANGER

Risk of personal injury and physical damage from electric shock

- Prior to working on the unit, ensure that the unit has been disconnected from the mains.
- Do not operate the unit with the housing open.

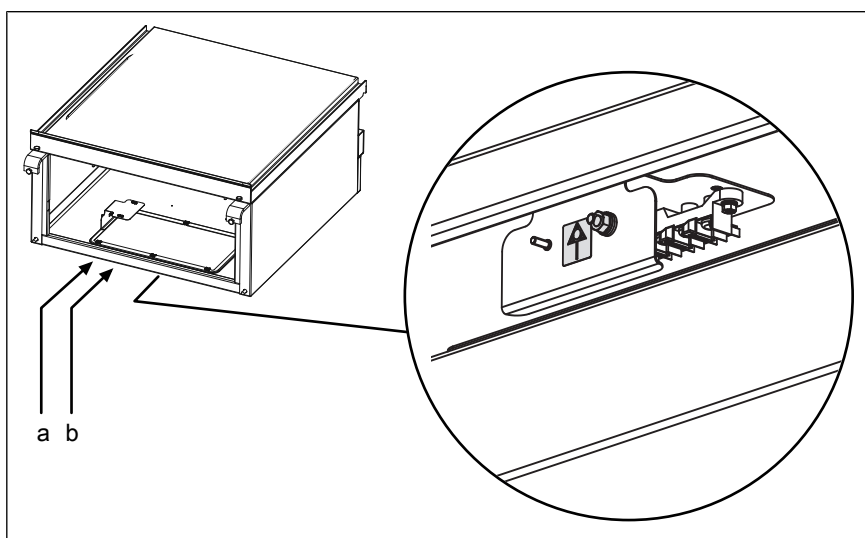


Image: Connection terminals and power optimisation

a Feeding the connection for power optimisation

b Feeding the power connection

Requirement Cover panel over connection terminals removed

1. Insert the electric power cable into the unit.
2. Connect the electric power cable in accordance with the wiring diagram.
3. Close the housing (see "Opening and closing the housing").
4. Fill out the commissioning report.

7.2.3 Connecting the power optimisation system (optional)



DANGER

Risk of personal injury and physical damage from electric shock

- Prior to working on the unit, ensure that the unit has been disconnected from the mains.
- Do not operate the unit with the housing open.

Requirement Unit disconnected from the electric mains

Cover panel over connection terminals opened

1. Pull the connection cable into the unit through the opening next to the entry for the power connection cable.

2. Bring the power connection cable to the connection terminals.
3. Connect power connection cable in accordance with the wiring diagram.
4. Close the housing (see "Opening and closing the housing").
5. Fill out the commissioning report.

7.2.4 Connecting the potential equalisation (floor-standing unit)



DANGER

Risk of personal injury and physical damage from electric shock

- Prior to working on the unit, ensure that the unit has been disconnected from the mains.
 - Do not operate the unit with the housing open.
-

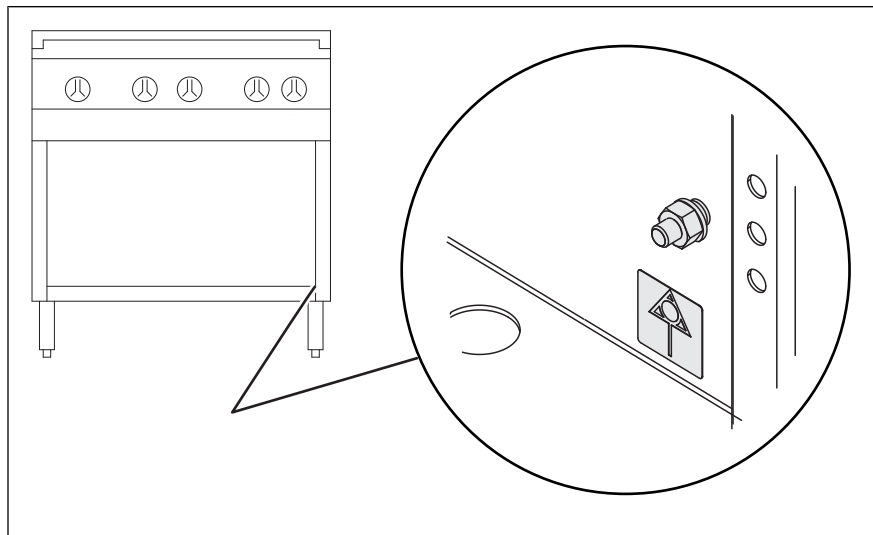


Image: Potential equalisation

Requirement Installation duct cover panel removed

1. Run and attach the potential equalisation line to the marked connection.
2. Fill out the commissioning report.

7.2.5 Connecting the potential equalisation (suspended unit)

**DANGER**

Risk of personal injury and physical damage from electric shock

- Prior to working on the unit, ensure that the unit has been disconnected from the mains.
- Do not operate the unit with the housing open.

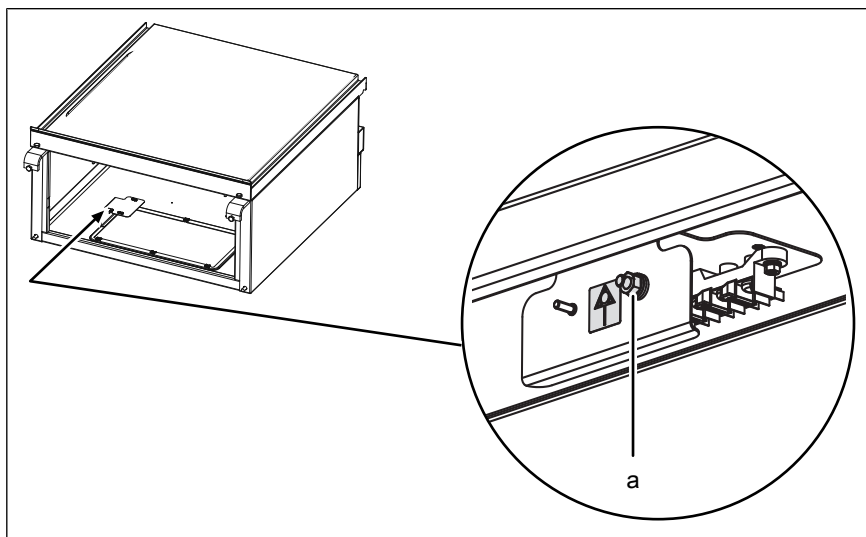


Image: Potential equalisation

a Potential equalisation

Requirement Installation duct cover panel removed

1. Run and attach the potential equalisation line to the marked connection.
2. Fill out the commissioning report.

7.2.6 Connecting the potential equalisation (countertop unit)



DANGER

Risk of personal injury and physical damage from electric shock

- Prior to working on the unit, ensure that the unit has been disconnected from the mains.
 - Do not operate the unit with the housing open.
-

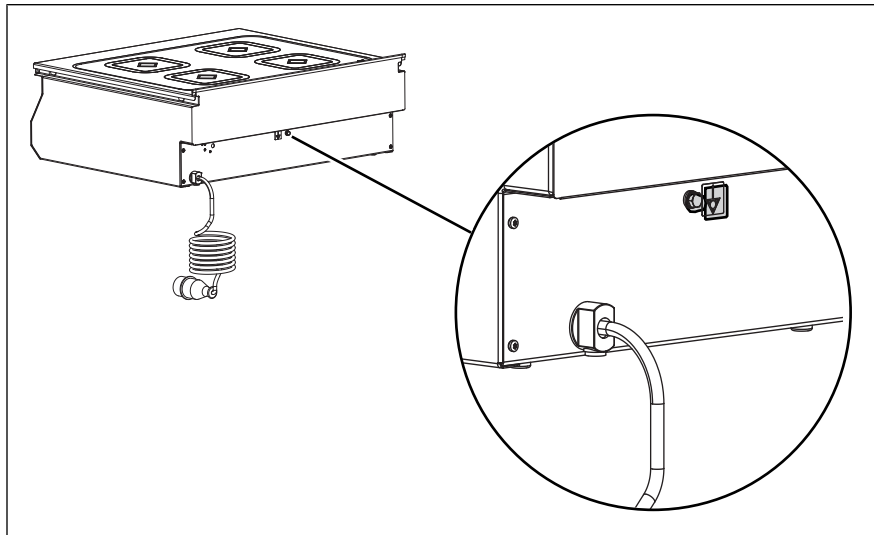


Image: Potential equalisation

1. Run and attach potential equalisation line to the identified terminal.
2. Fill out the commissioning report.

8 Checking operation



DANGER

Risk of personal injury and physical damage from unsuccessful operational check

- Do not put the unit into service.
- Contact customer service.

Requirement Power connection cable connected

Potential equalisation connected

Unit cleaned

8.1 Checking the manual controls

Requirement Power connection established

Housing closed

Heat zone without pot

1. Switch on the unit (see Operating instructions).
2. Set the *OECO/MANUAL* selector switch to *MANUAL*.
 - ↳ Pot detection is inoperative.
3. Fill a suitable pot with water (see Operating instructions).
4. Place pot in the centre of the heat zone.
5. Select the maximum output for the heat zone.
 - ↳ Check whether the heat zone warms up.
 - ↳ The pot heats up.
6. Switch off the output for the heat zone.
7. Repeat the process in the same way for further heat zones.
8. Allow the heat zones to cool down.
9. Allow the pot to cool down.
10. Set the *OECO/MANUAL* selector switch to *OECO*.
 - ↳ Pot detection is active.
11. Fill a suitable pot with water (see Operating instructions).
12. Place pot in the centre of the heat zone.
13. Select the maximum output for the heat zone.
 - ↳ Check whether the heat zone warms up.
 - ↳ The pot heats up.
14. Switch off the output for the heat zone.
15. Repeat the process in the same way for further heat zones.
16. Switch off the unit (See Operating instructions).
17. Complete the commissioning report.

9 Putting the unit into service

Requirement Power connection made
Housing closed
Operation successfully tested

1. Instruct the operator.
2. Fill out the commissioning report.

9.1 Filling out the commissioning report

General		Yes	No
Information from the nameplate entered? SN: _____ Typ: _____ E: _____ Bez: _____ Item-Nr.: _____ (if listed)		☐	☐
Obvious damage to the unit? What and where?: _____		☐	☐
Unit levelled?		☐	☐

Electrical connection		Yes	No
Power connection made properly?		☐	☐
☐ Equipotential bonding	☐ Power optimizing system	☐	☐
☐ Floating contact	☐ ...		
Electrical connections made properly?		☐	☐
Residual-current protective device connected immediately before this unit?		☐	☐
Residual-current protective device connected before this and other units?		☐	☐

Function check		Yes	No
Controls are functioning?		☐	☐

Final notes		Yes	No
Was the unit put into service?		☐	☐
Comments: 		☐	☐
Operator trained?			

Electrical installation was provided by:			
Company	Installer	City, date	Signature

The function check was performed by:			
Company	Installer	City, date	Signature

Operator training was provided by:			
Company	Installer	City, date	Signature





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