



Read the operating instructions prior to commissioning

FlexFusion® ELECTRIC SPACE\$AVER (PLUS)





FM08-431-J e

en-US

Installation manual

Model FSEN610

FSEN605



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1 Introduction

1.1 About this manual

The installation instructions are part of the unit and contain information on safe installation of the unit.

Observe the following notes and adhere to them:

- Read the installation instructions completely prior to installation.
- Make the installation instructions available to the installation fitter at the operating site at all times.
- Preserve the installation instructions throughout the service life of the unit.
- Insert any additions from the manufacturer.
- Pass on the installation instructions to any subsequent operator of the unit.
- **Target group** The target group of the installation instructions is trained qualified personnel that is familiar with installing and operating the unit.
 - **Figures** All figures in this manual are intended as examples. Discrepancies can arise between this and the actual unit.



1.1.1 Explanation of signs

	Imminent danger			
	Failure to comply will lead to death or very severe injuries.			
	Potential danger			
	Failure to comply can lead to death or v	rery severe injuries.		
	Dangerous situation			
	Failure to comply can lead do slight to r	noderately severe injuries.		
NOTICE	Property damage			
	Failure to comply can cause property damage.			
INFORMATION	Information			
	Notes for better understanding and operation of the unit.			
	Symbol / sign Meaning			
	•	Listing of information.		
	\rightarrow	Action steps which can be performed in any sequence.		
	1.	Action steps which must be performed in the specified sequence.		
2.				
	Result of an action performed or additional information relating to it.			

1.2 Personnel qualifications

Explanation of qualification

Skilled personnel	• A skilled person is someone who, on the basis of their technical training, knowledge and experience as well as familiarity with the applicable standards, can assess the assigned work and recognize pos- sible dangers.
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Type of activity	Qualification
Electrical connection	ElectricianSpecialized trainingEmployee of the responsible technical company
Water connection	 Water specialist Specialized training Employee of the responsible technical company
Waste water connection	 Waste water specialist Specialized training Employee of the responsible technical company

1.3 Use of the unit

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

1.4 Warranty

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

- · Improper conversion or technical modifications of the unit,
- Improper use,
- Improper startup, operation or maintenance of the unit,
- Problems resulting from failure to observe these instructions.





2 Safety instructions

_		
	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 installation fitter must be familiar with regional regulations and observe them.	
	The installation fitter must observe the safety instructions in these installation instructions and in the "Safety information" chapter of the operating instructions.	
.	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 installation, 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.	
Organizational measures	Risk of property damage and personal injury from lack of organizational measures	
	• Identify danger zones when transporting, installing and connecting the unit.	
	 Prior to starting the installation tasks, notify any operator present about the procedure. 	
	 Prior to starting the installation task, 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. 	

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Installation Risk of property damage and personal injury from improper installation

• Wear safety shoes and protective gloves.

Electrical connection Risk of fire from improper connection

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

Danger 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 the system is dead.
- Use only insulated tools.

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

• Using a chain to provide strain relief for the connection lines, secure the unit at the installation site so that the connection lines are not put under tension when the unit is moved. The strain relief must be designed for a tensile load of at least 0.6 kN.

Commissioning Risk of property damage and personal injury from improper commissioning

- Read the operating instructions prior to commissioning. Observe the safety instructions in these installation instructions and in the "Safety information" chapter of the operating instructions.
- Only put the unit into service after a successful function test in its assembled state.
- 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 Tabletop unit

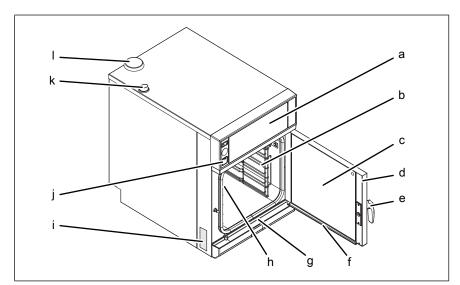


Image: Tabletop unit

- a Operating unit
- b Hang-in frame
- c Insulating disk
- d Cooking chamber door
- e Door handle
- f Drain channel, door

- g Drain channel, unit
- h Core temperature sensor (concealed)
- i Nameplate
- j USB port
- k Steam outlet nozzle
- I Air inlet nozzle

3.1.2 Built-in unit

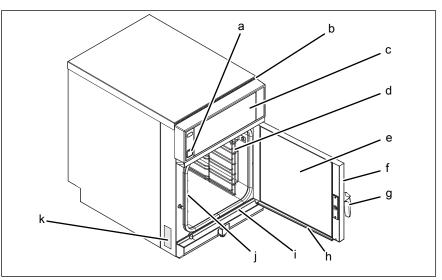


Image: Built-in unit

- a USB port
- b Ventilation grille
- c Operating unit
- d Hang-in frame
- e Insulating disk
- f Cooking chamber door

- g Door handle
- h Drain channel, door
- i Drain channel, unit
- j Core temperature sensor (concealed)
- k Nameplate

3.2 Unit and connection data

INFORMATION

- All voltages listed below are technically available.
- For some voltages, however, the implementation must be agreed with the manufacturer.
- The voltage for which the device is designed is indicated on the nameplate.

Size	610	605		
Dimensions				
Device Length x width x height (mm (in))	787 (30,98) x 550 (21,65) x 784 (30,87)	611 (24,06) x 550 (21,65) x 784 (30,87)		
Built-in unit Length x width x height (mm (in))	788 (31,02) x 550 (21,65) x 800 (31,5)	612 (24,09) x 550 (21,65) x 800 (31,5)		
Weight				
Jnit ≈(kg (lb)) 67 (147,7)		63 (138,9)		
Emissions	-			
Noise level (db(A))	< 65			
Steam output g/h (oz/h)	2070 (73,02)	1380 (48,68)		
Steam output m³/h (cuft/h)	3,5 (123,5)	2,3 (81,2)		



Size	610	605	
Latent heat dissipation (W)	1404	936	
Sensible heat dissipation (W)	936	624	
With HoodIn			
Steam output g/h (oz/h)	620 (21,87)	410 (14,46)	
Steam output m³/h (cuft/h)	1,1 (38,8)	0,7 (24,7)	
Latent heat dissipation (W)	421	281	
Sensible heat dissipation (W)	936	624	
With condensation hood			
Combination with HoodIn is not p	ossible		
Steam output g/h (oz/h)	620 (21,87)	410 (14,46)	
Steam output m³/h (cuft/h)	1,1 (38,8)	0,7 (24,7)	
Latent heat dissipation (W)	421	281	
Sensible heat dissipation (W)	936	624	
Operating environment			
Temperature (°C (°F))	5 (41) — 40 (104)		
Relative humidity (%) non-condensing	95		
Electrical connection			
Protective system	IPX5		
Type of connection	3PE AC 50/60Hz, 3NPE AC 50/60Hz		
Voltage (V)	200	200	
Connected load (kW)	7	4.9	
Fuse (A)	25	16	
Voltage (V)	208		
Connected load (kW)	7.4	5.1	
Fuse (A)	25	16	
Voltage (V)	220		
Connected load (kW)	8.4	5.8	
Fuse (A)	25	20	
Voltage (V)	230		
Connected load (kW)	9.1	6.4	
Fuse (A)	25	20	
Voltage (V)	240		
Connected load (kW)	9.8 6.8		
Fuse (A)	25 20		
Voltage (V)	380		
Connected load (kW)	7.4 4.9		
Fuse (A)	16	16	
Connected load (kW)	10.1		

Size	610	605	
Fuse (A)	16		
Voltage (V)	400		
Connected load (kW)	7.8	5.2	
Fuse (A)	16	16	
Connected load (kW)	11.2		
Fuse (A)	20		
Voltage (V)	415		
Connected load (kW)	8.1	5.4	
Fuse (A)	16	16	
Connected load (kW)	12		
Fuse (A)	20		
Voltage (V)	440	·	
Connected load (kW)	7.9	5.2	
Fuse (A)	16	16	
Type of connection	2PE AC 50/60Hz		
Voltage (V)	208		
Connected load (kW)	5.3	5.3	
Fuse (A)	35	35	
Voltage (V)	240		
Connected load (kW)	6.9	6.9	
Fuse (A)	35	35	
Type of connection	1NPE AC 50/60Hz		
Voltage (V)	220		
Connected load (kW)	5.8	3.2	
Fuse (A)	35	16	
Voltage (V)	230		
Connected load (kW)	6.4	3.5	
Fuse (A)	35	16	
Voltage (V)	240		
Connected load (kW)	6.9	3.8	
Fuse (A)	35	16	
Softened drinking water connection			
Water type	Softened drinking water, cold		
Residual hardness CaCO ₃ (mmol/l (ppm))	< 1 (100 ppm)		
Chloride Cl (mg/l)	< 100		
Iron Fe (mg/l)	< 0.2		
Connection pressure (kPa (psi))	200 (29) — 600 (87)		

Size	610	605	
Connection (")	R 3/4 outside thread		
Drinking water connection			
Water type	Drinking water, cold		
Carbonate hardness CaCO ₃ (mmol/l (ppm))	< 4 (400 ppm)		
Connection pressure (kPa (psi))	200 (29) — 600 (87)		
Connection (")	R 3/4 outside thread		
Water consumption, steaming			
Softened drinking water (l/h (gal/h))	10 (2,64) 7,5 (1,98)		
Water consumption, combistea	ming		
Softened drinking water (l/h (gal/h))	2,2 (0,58) 1,7 (0,45)		
Water consumption, WaveClean cleaning program			
Softened drinking water (I (gal))	1,3 (0,34)		
Drinking water (I (gal))	17,7 (4,68)		
Waste water connection	Waste water connection		
Waste water type	Dirty water		
Maximum length (m (ft))	1 (3,3) with downward slope of at least 5% or 3°		
Temperature resistance (°C (°F))	95 (203)		
Connection (mm (in))	40 (1,57)		
Maximum flow rate (l/min (gal/ min))	10 (2,64)		

Floor fastening

Absolutely essential for the following unit types		
SPACESAVER and SPACESAVER PLUS	Only in combination with underframe, including Ventless Hood	

Basic setting of the control

Basic setting	Parameter s	Standard value	Range of adjustment	Explanation
Supply voltage	14	400	100 — 500 V	Enter the local, mean voltage between the line conductors.
Date / time			yyyy - mm - dd	Year - Month - Day
			hh : mm	Hour : Minute



Basic setting	Parameter s	Standard value	Range of adjustment	Explanation
Altitude	2	0 — 999	0 — 999 m (3277 ft)	Request the altitude above sea level from the local weather station. If the altitude is unknown, enter 0 — 999 m (3277 ft).
			1000 m (3280 ft) — 1999 m (6557 ft)	
			2000 m (6560 ft) — 2499 m (8197 ft)	_
			2500 m (8200 ft) or higher	
Volume of audible signal		Medium	Individual	Sets the volume.
Temperature unit	1	°C	°C	Celsius (°C)
setting			°F	Fahrenheit (°F)
Volume unit	34	ml	(ml)	Milliliter (ml)
			(fl.oz.)	Fluid ounce (fl.oz.)
	35	Imperial	Imperial (fl.oz.)	Imperial fluid ounces
		(fl.oz.)	U.S. (fl.oz.)	U.S. fluid ounces
Water filter maintenance	44	0	0 — 99900 I (26393,66 gal)	Water quantity up to the maintenance message.
				0 = No maintenance message
Network		DHCP	Network address and DHCP	Select and set interface.
Kitchen control	652	Disabled	0 = Disabled	Indicates whether the kitchen guiding system is in use.
technology			1 = Active	
	659	Ethernet	0 = Ethernet 1 = Serial	Type of signal transmission (interface)
	653	1188	0 — 65535	TCP port setting
	654	254	0 — 254	Unit address
80 % power	3	100	80 %	Power can be limited to 80 % (for specia
			100 %	applications).
Power optimization	42	Off	On	If a power optimization system is
system			Off	connected, "On" must be selected for the unit to heat.
Settings parameters				 Set parameters via the roller. Tap the "Read" button to display the set values. Specify another value via the button panel. Press the "Write" button to save the new value.



Basic setting of control (Advanced)

Basic setting	Parameter s	Standard value	Range of adjustment	Explanation
Generator mode	45	0	0 = No	When a generator is used to supply electricity
			1 = Yes	
HoodIn (Wrase deletion)	48	1	0 = Lower water consumption, large amount of steam in the unit when the cooking chamber door is opened	Setting of the strength of the vapour quenching. Depending on the setting, cooking method and cooking product, water consumption may be increased.
			1 = Normal	
			2 = Higher water consumption, greatly reduced amount of steam in the unit when the cooking chamber door is opened	
Time format	675	0	0 = 24 h	Set the 12-h or 24-h time format
			1 = 12 h	
Format for cooking program times	676	0	0 = hh:mm 1 = mm:ss 2 = automatic	Display format for cooking program times



4 Transporting the unit

	 Risk of property damage and personnel injury from tipping unit Stay clear of lifted unit. Move lifted unit carefully.
NOTICE	 Risk of property 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.
	Prior to transporting the unit to the installation site, ensure that:

- The roadway has adequate load-bearing capacity.
- Wall openings are large enough.

4.1 Transporting the unit to the installation site

ightarrow Use suitable transport means to move unit to its installation site.

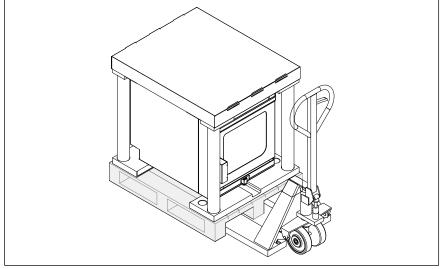


Image: Lengthwise and crosswise transport on pallet



4.2 Unpacking the unit

Risk of injury from sharp edges
Wear protective gloves.

INFORMATION

When unpacking the unit, inspect it for transport damage.

Do not install damaged units or put into service.

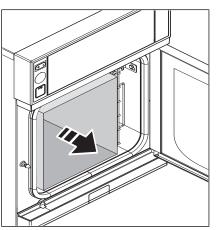


Image: Unpacking the unit

- 1. Remove the packaging.
- 2. Pull the protective film off the unit.
- 3. Remove all packaging material from the cooking chamber.
- 4. Clean the unit (See Operating instructions).
- 5. Enter the information from the nameplate into the Start-up operation report.
- 6. Enter the information from the nameplate into the Operating instructions.



5 Installing the unit

	Risk of crushing from improper installationProtect the unit and work area during installation and alignment.	
	 Risk of fire from failure to observe applicable regional fire prevention regulations Observe applicable regional fire prevention regulations. 	
NOTICE	Risk of property damage from overheating of the unitDo not install the unit close to heat sources.	

Planning drawing

The planning drawing and additional documents can be retrieved from the manufacturer's page on the Internet (see Legal details) by entering the number on the unit.

5.1 Minimum clearances

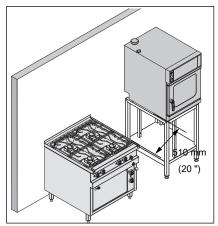


Image: Minimum distance from equipment with high heat radiation on right and left side.





NOTICE

Material damage to the device control due to excessive ambient temperatures

Minimum distance to equipment with large heat radiation 510 mm (20") on right and left side.

These include, for example:

- Gas stoves
- Gas griddle plates
- Grills
- Deep fryers

The following clearances from walls, ceilings or other equipment must be maintained when installing the unit:

• Left, right and rear: at least 50 mm (1,97 in).

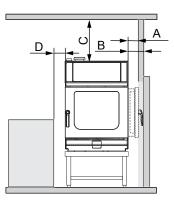


Image: Minimum clearances to walls, ceiling or units

А	В	C *	D
50 (1,97)	100 (3,94)		50 (1,97)
All dimensions in mm (in)			
* Depends on the kitchen ventilation system and quality of ceiling material			



5.2 Setting up the unit on a work surface or underframe

	Danger due to heavy weight of the unit (over 60 kg (132 lbs))	
	Erect the unit with several people.	
Prereguis	 Raise / lower the unit with suitable lifting equipment. Work surface/underframe must support the weight of the unit 	
	Work surface/underframe must be level	
	Subframe installed in accordance with planning drawing	
	 Lift unit. Place unit on work surface or the upright bolts of the underframe. 	
5.2.1 Attaching the insertion height warning note		
	Risk of scalding due to spillage of hot cooked food	

• Attach stickers if the upper insertion rails are higher than 1,6 m (5,3 ft).

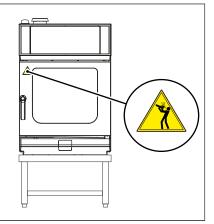


Image: Attaching the insertion height warning note

- 1. Clean the adhesive surface for the sticker.
- 2. Attach the sticker to the cooking chamber door at the height of the 1,6 m (5,3 ft).

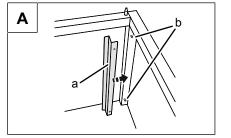




5.2.2 Installing the hang-in frame

Depending on the version, the base frame can be equipped with a hang-in frame.

The hang-in the frame is used to hold containers, baking sheets and grates.



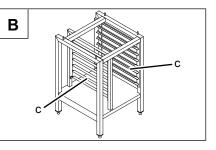


Image: A Stop profile, B Hang-in frame

a Stop profile b Bolt

c Hang-in frame

Prerequisite Pins installed in the uprights of the base frame

- 1. Place the stop profiles on the pins (at the back).
- 2. Install the support racks.

5.3 Fastening the unit to the floor

5.3.1 Securing the unit to prevent tipping

Risk of accident from insufficient fastening		
	Unit can tip over	
	• Depending on the unit type, suitable measures must be taken to fasten the unit to the floor.	
	 Comply with the requirements for the condition of the floor. 	
	 Comply with the requirements for the means of fastening. 	
	 Follow the manufacturer's instructions for using the means of fastening. 	
	Depending on the size, it is essential that certain combisteamer types or combisteamers used in combination with a Stapelkit (stacking kit), a recirculation hood, an underframe or base cabinet be secured to prevent tipping.	
	Unit types that must be secured to prevent tipping (see "Unit and connection data").	

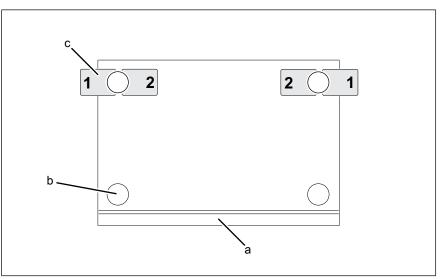


Image: Arrangement of the floor plates (view from above)

- a Cooking chamber door c Floor plates
- b Unit leg or underframe

To prevent the unit from tilting, a special fastening kit is supplied by the manufacturer or is available as an accessory.

The fastening kit contains two floor fasteners and all components required to bolt or bond to the floor.

The unit or underframe is fastened by means of two floor fasteners as shown in the drawing.

Floor without steam barrier

In the case of floors without a steam barrier, the floor plates are bolted to the floor using the bolts provided.

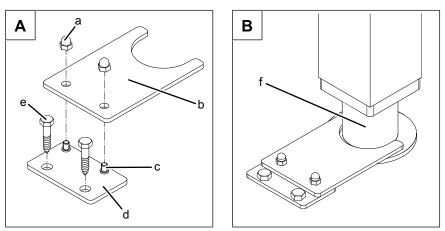


Image: A: Position of floor plate; B: floor plate bolted to the floor

- a Cap nut
- b Holding platec Upright bolt

- d Floor plate
- e Lag bolt f Unit leg



Prerequisite Floor capable of accommodating the weight of the unit Floor must be clean and suitable for the manner fastening Unit set up and aligned in accordance with the planning drawing

- 1. Insert the floor plate from the fastening kit into the retainer as shown in the drawing.
- 2. Screw on the cap nuts hand-tight.
- 3. Align the floor fastener in position 1-1 or 2-2 on the unit leg or underframe as shown in the drawing and mark the fastening holes on the floor.
- 4. Mark the position of all unit legs or underframe on the floor.
- 5. Using suitable lifting equipment, move the unit so that the holes can be drilled in the floor.
- 6. Drill holes with a diameter matching that of the anchor sufficiently deep in the floor.
- 7. Carefully place the unit in the installation position.
- 8. Screw on cap nuts and remove the retainer from the floor plate.
- 9. Using the anchors and fastening screws provided, screw the floor plate to the floor.
- 10. Ensure that a tight seal against the floor has been reestablished after the fastening screws are installed.
- 11. Place retainer on the floor plate and secure using cap nuts.
- 12. Complete the start-up operation report.

Floor with steam barrier

In the case of floors with a steam barrier, the floor plates are not screwed to the floor but fastened with the enclosed adhesive.

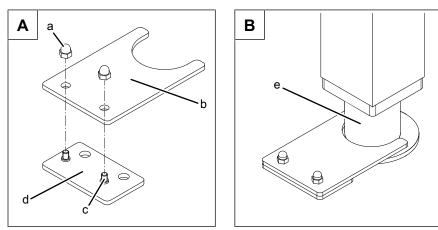


Image: A: Position of floor plate; B: floor plate glued to the floor

- a Cap nut
- b Holding plate
- c Upright bolt

- d Floor plate
- e Unit leg



PrerequisiteFloor capable of accommodating the weight of the unitFloor must be clean and suitable for the manner fasteningUnit set up and aligned in accordance with the planning drawing

- 1. Insert the floor plate from the fastening kit into the retainer as shown in the drawing.
- 2. Screw on the cap nuts hand-tight.
- 3. Align the floor fasteners in position 1-1 or 2-2 on the unit leg or underframe as shown in the drawing and mark the floor.
- 4. Screw on cap nuts and remove the retainer from the floor plate.
- 5. Using the adhesive provided, fasten the floor plates to the floor.
 - → Follow the manufacturer's instructions regarding the adhesive.
 - → Apply the adhesive in accordance with the manufacturer's instructions.
 - → Observe the drying time specified in the manufacturer's instructions.
- 6. Place retainers on the floor plates and secure using cap units.
- 7. Complete the start-up operation report.



6 Connecting the unit

▲ DANGER	Risk of personal injury and property damage from electric shock	
	Before working on the unit, ensure that the unit is dead.Do not operate the unit with the housing open.	
	Risk of injury from sharp edgesWear protective gloves.	
	· · · · · · · · · · · · · · · · · · ·	
NOTICE	Risk of property damage from damage to the linesRemove and attach housing components carefully.	

6.1 Opening and closing the housing

6.1.1 Removing and attaching the rear panel

Remove the rear panel.

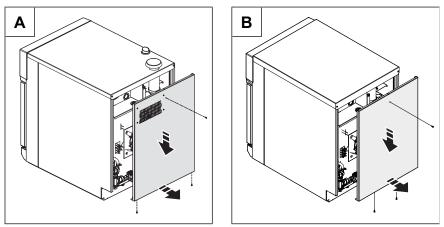


Image: Remove the rear panel, A Tabletop unit, B Built-in unit

- 1. Unscrew the screws in the back wall.
- 2. Holding the bottom edge, carefully pull the back wall down and then forward.





Attaching the rear panel

NOTICE	Risk of property damage from leaky housing
	 Check gaskets when attaching the housing parts.
	Replace damaged gaskets.
	 Place the top of the back wall in position first and then press against the seal at the bottom.
	2. Slide the back wall up.
	3. Install screws in the back wall.
	→ The back wall must be in contact with the unit on all sides.

6.1.2 Removing and attaching the unit cover

Removing the unit cover on a tabletop unit

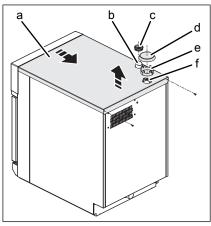


Image: Removing the unit cover

а	Unit cover
b	Steam outlet nozzle

c Seal

- d Lid
- e Ventilation ring
- f Air inlet nozzle
- 1. Unscrew the lid from the air inlet nozzle.
- 2. Remove the ventilator ring.
- 3. Unscrew the screws on the unit cover.
- 4. Carefully remove the unit cover.





NOTICE	Risk of property damage from leaky housing	
	 Check gaskets when attaching the housing parts. 	
	Replace damaged gaskets.	
	 Brush the seal on the steam outlet nozzle with an acid-free slip agent. Carefully push the unit cover over the steam outlet nozzle and air 	
	inlet nozzle.	
	The air inlet nizzle must be pushed through the cut-outs on the unit cover.	
	3. Press the unit cover onto the housing.	
	4. Screw in the screws on the unit cover.	
	 The unit cover must be in contact with the unit on all sides. Put the ventilator ring on with the cut-outs facing upwards and ensure that it can not be rotated. 	
	6. Screw the lid onto the air inlet nozzle.	
	Removing the unit cover on a built-in unit	
	maga: Pamaving the unit cover	

Attaching the unit cover on a tabletop unit

Image: Removing the unit cover

- a Fan
- b Seal

- d Unit cover
- e Air diverter
- c Steam outlet nozzle
- 1. Unscrew the screws in the unit cover.
- 2. Carefully remove the unit cover.





NOTICE	 Risk of property damage from leaky housing Check gaskets when attaching the housing parts.
	Replace damaged gaskets.
	 Check that the seal on the steam outlet nozzle is seated properly. Apply a film of acid-free lubricant to the seal on the steam outlet nozzle. Slide the unit cover forward. Carefully position the unit cover flush with the steam outlet nozzle. Install screws in the unit cover.
	ightarrow The unit cover must be in contact with the unit on all sides.
6.2 Making the electr	ical connection

Attaching the unit cover on a built-in unit

Electrical installation work

Electrical installation work on the electric system and the unit may only be performed by a specialist company, which is approved by the electric utility company in the particular region. The applicable regional regulations, standards and guidelines must be observed, as well as the connection conditions imposed by the electric utility company responsible.

Technical qualifications for electrical installation tasks

Electrical installation tasks on the electrical system and the unit may be carried out only by an electrician provided by the specialist company contracted.

The unit must be connected in accordance with the information on the nameplate and the instructions of 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 Imprint).

Electrical connection line

Minimum requirements for the unit's electrical connection line to the electrical supply mains:

Connection	Electrical connection line
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:
Connection of the unit with a connector.	H05RN-F).



Permanent connection
Risk of property damage and personal injury from improper instal- lation
 In the case of a fixed electrical connection, install an all-pole disconnecting unit with at least 3 mm (0.12 in) contact opening in front of the unit.
Install an all-pin separating device if the unit will be connected permanently to the electrical supply mains.
Plug-in connection
Risk of property damage and personal injury from improper instal- lation
The plug-in connection must be readily accessible.
If the unit is connected with a plug to the electrical supply mains, use plugs and sockets according to IEC60309.
The socket must be readily accessible so that the unit can be disconnected from the electrical supply mains at any time.
Insulation monitoring
In the case of an unearthed network (IT network), the unit can be incorporated into the insulation monitoring.
Fault current device

Image: RCD switch type A circuit symbol

The unit can be connected to a fault current 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.

If the unit is connected to electrical supply mains without a neutral conductor, a type B fault current circuit breaker (RCD type B), which is sensitive to all types of current, must be installed.

The unit generates a small fault current through use of special electronic components. To ensure that the residual current device does not trip during normal operation, each unit should have its own residual current device.

Potential equalization

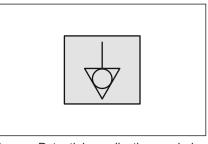


Image: Potential equalization symbol

The unit can be included in a potential equalization system by means of appropriately sized wiring.

6.2.1 Connecting the electrical connection line

▲ DANGER	 Risk of operator injury and property damage from electric shock Before connecting, make sure that the connection point at the installation site is dead. Make sure that the connection line is undamaged.
▲ DANGER	 Risk of personal injury and property damage from electric shock Before connecting, ensure that the electrical connection line is dead.

• Ensure that the electrical connection line is undamaged.

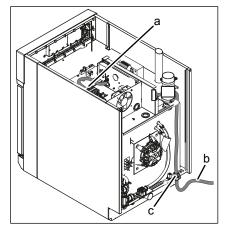


Image: Electrical connection line

- a Connection terminals
- b Electrical connection line

c Cable entry



Prerequisite	 Electrical connection point at installation site dead Voltage matches the data on the nameplate 1. Connect the electrical connection line to the connection point at the installation site in accordance with the circuit diagram. → A suitable connector can also be attached to the electrical connection line. 2. Complete the start-up operation report.
	f a connection line is already available at the installation site, the minimum re- quirements for the electrical connection line must be observed and complied with.
Prerequisite	 The electrical connection line meets the minimum requirements Electrical connection line dead Rear panel removed Unit cover removed 1. Disconnect the factory connection line and carefully remove it from the unit. → Note the routing position of the connection line. 2. Pull the electrical connection line into the unit through the cable gland. 3. Route the connection line so that it corresponds exactly to the factory routing. 4. Secure the connection line with cable ties.
	 Connect connection cable in accordance with the circuit diagram. Tighten threaded cable connection to provide strain relief. Close the housing (see "Opening and closing the housing"). Complete the start-up operation report.
6.2.2 Connecting the powe	r optimization system
▲ DANGER	 Risk of personal injury and property damage from electric shock Before working on the unit, ensure that the unit has been disconnected from the power supply.
▲ DANGER	 Risk of personal injury and property damage from electric shock Before connecting, ensure that the electrical connection line is dead. Ensure that the electrical connection line is undamaged.
1	The unit can be connected to a power optimization system designed to DIN 18875 with a potential-free contact. The potential-free contact is used to link the unit to the control. The required cable length in the unit for the power optimization system corresponds to the height of the unit.

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INFORMATION

When integrating the device into an power optimization system, observe the information in the operating manual of the power optimization system.

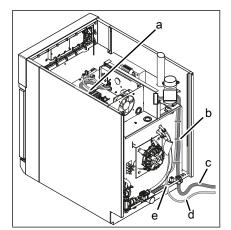


Image: Connecting the power optimization system

- a Connection terminals X2 for power optimization system
- d Connection line for power optimization system
- e Cable entry
- c Electrical connection line

b Cable tie

Prerequisite Unit dead

Connection line dead Unit cover open Back wall open

- 1. Press out appropriate opening in the bottom.
- 2. Screw in appropriate threaded cable connection.
- 3. Guide connection cable into the unit through the threaded cable connection.
- 4. Route connection line to the connection terminals parallel to the electrical connection line.
- 5. Connect connection cable in accordance with the circuit diagram.
- 6. Secure connection cable with cable tie.
- 7. Tighten threaded cable connection to provide strain relief.
- 8. Close housing.
- 9. Log on to power optimization system in basic control setting (see "Establishing the basic control setting").
- 10. Complete the start-up operation report.





6.2.3 Connecting the potential equalization

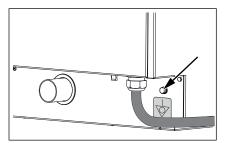


Image: Connecting the potential equalization

- 1. Route and connect the potential equalization line to the marked connection.
- 2. Fill out the Start-up operation report.

6.3 Connecting the kitchen guiding system

The units can be connected to a kitchen guiding system using an RJ45 plug.

Minimum requirements for the network cable

Type of network	Ethernet
Cable quality	4-pair shrouded patch cable Cat-5 S/FTP
Connection to unit	Shrouded RJ45 connector

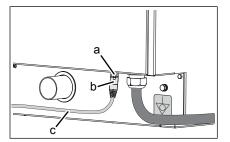
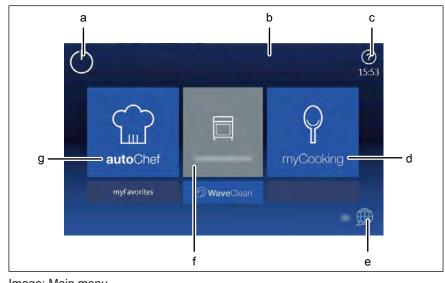


Image: Connecting the kitchen guiding system

a RJ45 socket b RJ45 connector

- c Network cable
- 1. Connect the network cable to the RJ45 connector on the unit.
- 2. Log on to the network in the basic control setting (see "Establishing the basic control setting").
- 3. Complete the start-up operation report.





6.4 Performing the basic setting of the control

Image: Main menu

- a Stand-by button
- b Information strip
- c FlexiHelp button
- d "myCooking" button
- e Language selection button
- f "Unit functions" button
- g "autoChef" button

6.4.1 Changing the basic setting of the control

By entering the password "2100", the basic setting for the installation can be displayed and changed.

INFORMATION	The basic settings are made in the dialogue.
	Advanced settings are made via the parameters for the settings.
Prerequisite	Unit is on
	The Main menu is displayed
	1. Tap the "Unit functions" button.
	 → The <i>Unit functions</i> menu is displayed. 2. Tap the "Unit settings" field.
	\rightarrow The <i>PIN</i> window opens.
	3. Enter the password.
	4. Tap the <i>Confirm</i> button.
	→ The Unit settings menu is displayed.
	The basic settings can be changed (see "Unit and connection data").
	5. Fill out the Start-up operation report.



6.5 Making the water connection

Drinking water installation tasks

	Drinking water installation tasks on drinking water lines and the unit may only be performed by a specialist company, which is approved by the drinking water utility company in the particular region. The applicable regional regulations, standards and guidelines must be observed, as well as the connection conditions imposed by the drinking water utility company responsible.
	Technical qualifications for drinking water installation tasks
	Drinking water installation tasks on drinking water lines and the unit may be carried out only by a water specialist provided by the specialist company contracted.
	The unit has a connection for permanent installation to the drinking water supply.
	The unit is equipped with a permanent connection for:
	 Softened drinking water for steam generation
	Drinking water for cooling, rinsing and cleaning
	Hygiene risk from contaminated drinking water
	 Hygiene risk from contaminated drinking water The connection to the drinking water supply must be equipped with a back- flow preventer.
	 The connection to the drinking water supply must be equipped with a back- flow preventer.
	The connection to the drinking water supply must be equipped with a back-
NOTICE	 The connection to the drinking water supply must be equipped with a back- flow preventer. Risk of property damage from the wrong water quality
	 The connection to the drinking water supply must be equipped with a backflow preventer. Risk of property damage from the wrong water quality Ensure that the water quality complies with the unit and connection data.
NOTICE	 The connection to the drinking water supply must be equipped with a backflow preventer. Risk of property damage from the wrong water quality Ensure that the water quality complies with the unit and connection data. The unit can be connected to a reverse osmosis system. The material of the connection line from the reverse osmosis system to the

6.5.1 Connecting the drinking water connection line

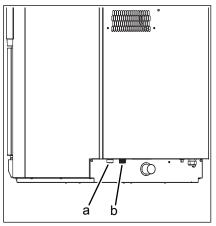


Image: Water connection

- a Drinking water connection
- b Softened drinking water connection
- **Prerequisite** Water pressure complies with specifications (see "Unit and connection data")

Backflow preventer installed

Pressure-resistant connection lines suitable for tap water are available

- 1. Connect the connection lines to the drinking water taps using seals.
- 2. Flush the connection lines thoroughly.
- 3. Insert dirt filters into the water connections on the unit.
- 4. Connect the drinking water connection line to the unit.
- 5. Connect the connection line for softened drinking water to the unit.
- 6. Open the tap water valves and check the threaded connectors for leaks.
- 7. Fill out the Start-up operation report.

6.5.2 Connecting softened drinking water to both connections

If only softened drinking water is available at the installation site, use a T-piece to connect both water connections on the unit to each other.

Prerequisite Water pressure complies with specifications (see "Unit and connection data")

Backflow preventer installed

Pressure-tight connection line suitable for drinking water is available

- 1. Connect the connection line to the tap for softened drinking water using a seal.
- 2. Flush the connection line thoroughly.
- 3. Insert dirt filters into the water connections on the unit.
- 4. Connect T-piece to the unit.



- Connect the connection line for softened drinking water to the Tpiece using a seal.
- 6. Open the drinking water tap and check the threaded fittings for leakage tightness.
- 7. Fill out the Start-up operation report.

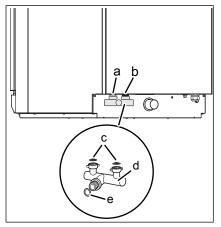


Image: Connecting softened drinking water at two locations

- a Drinking water connection
- d T-piece e Seal
- Softened drinking water
 - water
- connection c Dirt filter

h

6.6 Making the waste water connection

Waste water installation tasks

Waste water installation tasks on waste water systems and the unit may only be carried out by a specialized company that is responsible for waste water systems. The applicable regional regulations, standards and guidelines must be observed, as well as the connection conditions imposed by the operator of the waste water company responsible.

Technical qualifications for waste water installation tasks

Waste water installation tasks on waste water lines and the unit may be carried out only by a waste water specialist provided by the specialist company contracted.



6.6.1 Connecting the waste water line to a permanent connection

b

c Siphon

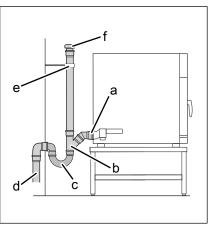


Image: Waste water line to a permanent connection

- a Waste water connection
 - Waste water line
 - f Va
- d Waste water mains e Pipe clamp
 - f Vacuum breaker

INFORMATION

Install a vacuum breaker in the waste water line.

Prerequisite The waste water line complies with the specifications (see "Unit and connection data")

- 1. Install waste water line up to connection to the waste water system.
- 2. Secure waste water line with pipe clamps.
- 3. Fill the siphon of the unit with drinking water.
- 4. Fill out the Start-up operation report.



6.6.2 Connecting a waste water line with an unobstructed discharge

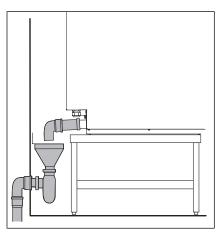


Image: Connecting the waste water line to the discharge funnel

- a Waste water connection
- d Waste water mains
- b Waste water line
- c Funnel siphon

- e Siphon on waste water mains
- f Discharge funnel
- **Prerequisite** The waste water line complies with the specifications (see "Unit and connection data")
 - 1. Connect the discharge funnel with waste trap to the sewer system.
 - 2. Connect the waste water line to the unit and extend it to the discharge funnel.
 - 3. Secure waste water line with pipe clamps.
 - 4. Install outlet of the waste water line 20 mm above the discharge funnel.
 - 5. Fill the discharge funnel with tap water.
 - 6. Fill out the Start-up operation report.

7 Installing the unit

 Danger due to heavy weight of the unit (over 60 kg) Erect the unit with several people. Raise / lower the unit with suitable lifting equipment.
Risk of crushing from improper installationProtect the unit and work area during installation and alignment.
Risk of crushing fingers and hands when lifting and lowering the unit on the shelf plate

• Always lift and lower the unit (with suitable lifting equipment) carefully with two people.

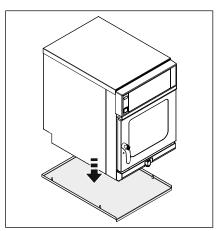


Image: Placing the unit on the slide-in plate

 Prerequisite
 Electrical connection made

 Water connection made or prepared
 Waste water connection made or prepared

 Housing closed
 Housing closed

- Place unit over the upper right bolts on the slide-in plate.
 → Bent edge of slide-in plate is at front.
- 2. Lift unit with slide-in plate and slide into place.
- 3. Complete remaining work for connecting the unit (see "Connecting the unit").
- 4. Complete the start-up operation report.



8 Testing the function

	Risk of personal injury and property damage from unsuccessful operational check
	Do not put the unit into service.
	Contact customer service.
Prerequisit	e Electrical connection made
	Water connection made
	Waste water connection made
	Unit aligned
	Unit cleaned
8.1 Checking the cont	trols
	1. Switch on the unit and start any cooking program (see operating instructions).
	Set the cooking chamber temperature to a higher temperature than the current cooking chamber temperature.
	└→ The unit heats up.
	\hookrightarrow Once the set temperature is reached, heating switches off.
	→ The temperature no longer increases.
	→ The controls are functioning.
	2. Switch off the unit.
	3. Fill out the Start-up operation report.
8.2 Checking the insp	ection of the cooking chamber door
	1. Switch on the unit and start any cooking program (see operating

- Switch on the unit and start any cooking program (see operating instructions).
 - \rightarrow The unit heats up.
 - \hookrightarrow The fan is turning.
- 2. Open the cooking chamber door during operation.
 - \hookrightarrow The unit shuts off the heating function.
 - \hookrightarrow The fan comes to a stop.
 - \hookrightarrow The monitoring of the cooking chamber door is functioning.
- 3. Close the cooking chamber door.
- 4. Switch off the unit.
- 5. Fill out the Start-up operation report.



8.3 Heating and rinsing the unit

- 1. Switch on the unit.
- 2. Tap the "Manual cooking" button.
 - \rightarrow The Manual cooking menu is displayed.
- 3. Run the unit in the Steaming mode for 15 minutes at 100 $^\circ C$ (212 $^\circ F).$
- 4. Rinse the cooking chamber thoroughly with clear water.
- 5. Run the unit in the convection mode for 5 minutes at 180 $^{\circ}$ C (356 $^{\circ}$ F).
- 6. Open the cooking chamber door and leave it ajar until the unit is used again.
- 7. Fill out the start-up operation report.



9 Putting the unit into service

INFORMATION

If the unit is not put into service immediately after being connected and the function check, all inspections must be repeated.

Prerequisite	Electrical connection made
	Water connection made
	Wastewater connection made
	Exhaust air connection made (if required by the customer)
	Function checked successfully
	Housing closed

- 1. Instruct operator.
- 2. Fill out the Start-up operation report.

9.1 Nameplate

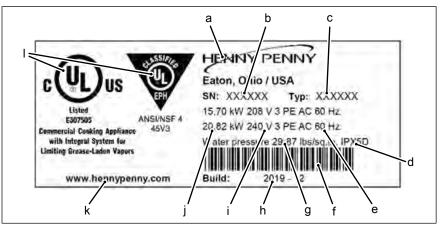


Image: Nameplate information

- a Manufacturer
- b Serial number
- c Type number
- d Protection class
- e Frequency
- f Barcode

- g Connection pressure for water
- h Year of manufacture
- i Type of connection
- j Electrical connected load
- k Manufacturer's web address
- I Certificate



9.2 Filling out the Start-up operation report

General information			No
Enter the data on the nameplate.			
SN: Type			
Electrical connection			
Designation			
Item no.: (if avai	Item no.: (if available)		
Obvious damage to the device? What and where?			
Unit levelled?			
General ir	oformation	Yes	No
Is it necessary to secure the device against tipping of	or slipping?		
If so, how was it secured?			
secured against tipping	secured against shifting	_	
Screwed to floor	Screwed to floor		
Glued to floor	Glued to floor		
Electrical connection			No
Electrical connection made properly?			
Potential equalization	energy optimization plant		
Potential-free contact			
Electrical connections made properly?			
Fault current protection installed immediately upstream of this unit?			
Fault current protection installed upstream of this and other devices?			
Kitchen gui	ding system	Yes	No
Kitchen guiding system connected properly?			
Basic con	trol setting	Yes	No
Set temperature unit			
	│	-	
Date and time set?			
current software version			1
set installation altitude			
0 — 999 m (3277 ft)	1000 m (3280 ft) — 1999 m (6557 ft)		
2000 m (6560 ft) — 2499 m (8197 ft)	2500 m (8200 ft) or higher		
80% power set?			
100 %			

Basic control setting			No
Voltage set in the control.			
Voltage:V			
Audible signal volume set?			
Low High			
Signal tone selected?			
Set volume unit			
ml	fl.oz. (Imperial)		
fl.oz. (U.S.)			
Power optimization system set?			
On	Off		
Set water filter maintenance			
No maintenance message	maintenance message at I (gal)		
Network configuration set?			
	IP address:		
Subnet mask:	Gateway:		
Kitchen guiding system set?			
Active	Disabled		
Ethernet	Serial		
TCP port:	Unit address:		
Unit address:			
Unit address:	onnection	Yes	No
Unit address:		Yes	No
Unit address:	onnection	Yes	No
Unit address: Water co Connection pressure within indicated range? Connection pressure: 200 kPa (29 psi) - 600 kPa (8 Confirm that the device is connected to cold water.	onnection 7 psi)	Yes	No
Unit address: Water co Connection pressure within indicated range? Connection pressure: 200 kPa (29 psi) - 600 kPa (8)	onnection 7 psi)	Yes	No
Unit address: Water co Connection pressure within indicated range? Connection pressure: 200 kPa (29 psi) - 600 kPa (8 Confirm that the device is connected to cold water. CAUTION! Never connect the device to hot water Lines and connections leak-free?	onnection 7 psi)	Yes	No
Unit address:	onnection 7 psi)	Yes	
Unit address: Water co Connection pressure within indicated range? Connection pressure: 200 kPa (29 psi) - 600 kPa (8 Confirm that the device is connected to cold water. CAUTION! Never connect the device to hot water Lines and connections leak-free?	onnection 7 psi)	Yes	
Unit address:	onnection 7 psi)	Yes Yes	No
Unit address:	onnection 7 psi) kPa (psi) r. Connected only to drinking water r connection		
Unit address:	onnection 7 psi) kPa (psi) r. Connected only to drinking water r connection		
Unit address:	onnection 7 psi) kPa (psi) r. Connected only to drinking water r connection ct manner?		
Unit address:	onnection 7 psi) kPa (psi) r. Connected only to drinking water r connection ct manner? Vacuum breaker		
Unit address:	onnection 7 psi)		
Unit address:	7 psi)	Yes	□ □ □ □

Function check				Yes	No
Start the convection heating. Open the cooking chamber door. Does the fan stop if you open the cooking chamber door while the appliance is running?					
Unit heated and rinsed?					
	Final notes			Yes	No
Was the unit put into service?)				
Comments:					
Operator trained?					
Electrical installation was made	de by:				
Company	Installation fitter	Place, date	Signature		
The connection to a kitchen g	uiding system was made by:	1			
Company	Installation fitter	Place, date	Signature		
Water installation was made I	by:				
			Signature		
Company Installation fitter Place, date					
Wastewater installation was r	nade by:		[
Company	Installation fitter	Place, date	Signature		
Function check was made by	:				
			Signature		
Company Installation fitter Place, date					
Operator was trained by:					
			Oliveratives		
Company Installation fitter Place, date Signature					





