HENNY PENNY
Engineered to Last

Read the operating instructions prior to commissioning

Installation instructions

FlexFusion® ELECTRIC SPACE$AVER (PLUS)

FLEXFUSION
SPACE$AVER PLUS

FLEXFUSION
SPACE$AVER

Wendy's

Model

FSE-**605**

FSE-**610**

FM06-066 • 23/2/2018

FM06-066A en-US

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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

⚠ DANGER

Imminent danger

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

⚠ WARNING

Potential danger

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

⚠ CAUTION

Dangerous situation

Failure to comply can lead do slight to moderately 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.
→	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 or additional information relating to it.

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1.2 Staff qualification

Explanation of qualification

Skilled staff	• Skilled staff are those, who due to their professional training, knowledge and experience as well as their knowledge of the relevant standards can assess the tasks given to them and recognize any possible dangers.

Type of activity	Qualification
Power connection	• Electrician • Specific professional training • Employee of the specialist company concerned
Water connection	• Plumber • Specific professional training • Employee of the specialist company concerned
Wastewater connection	• Wastewater specialist • Specific professional training • Employee of the specialist company concerned

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.

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

Personen- und Sachschäden durch unsachgemäßen Transport und unsachgemäße Lagerung

- 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

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

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

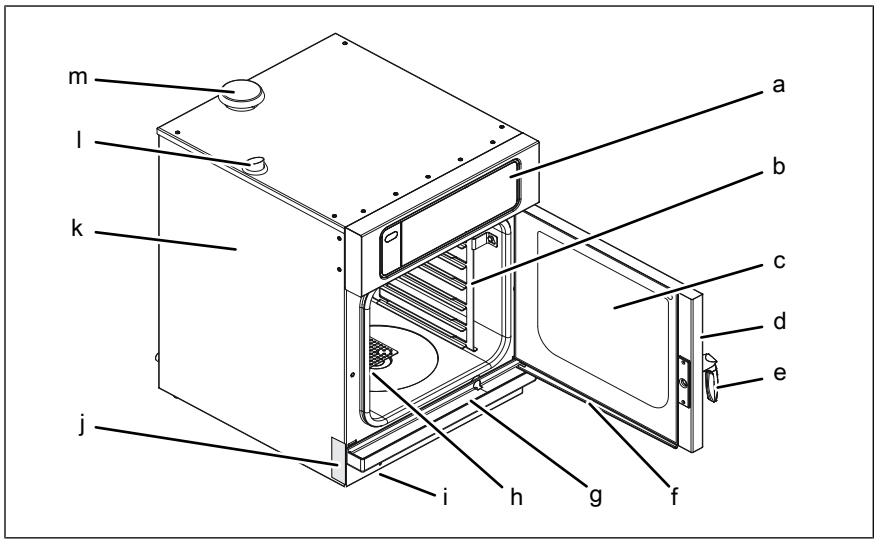

Image: Tabletop unit

a	Operating unit	h	Core temperature sensor (covered)
b	Hang-in frame	i	USB port (covered)
c	Insulating disk	j	Nameplate
d	Cooking chamber door	k	Housing
e	Door handle	l	Steam outlet nozzle
f	Discharge channel, door	m	Air inlet nozzle
g	Discharge channel, unit		

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3.2 Planning drawing

3.2.1 Tabletop unit

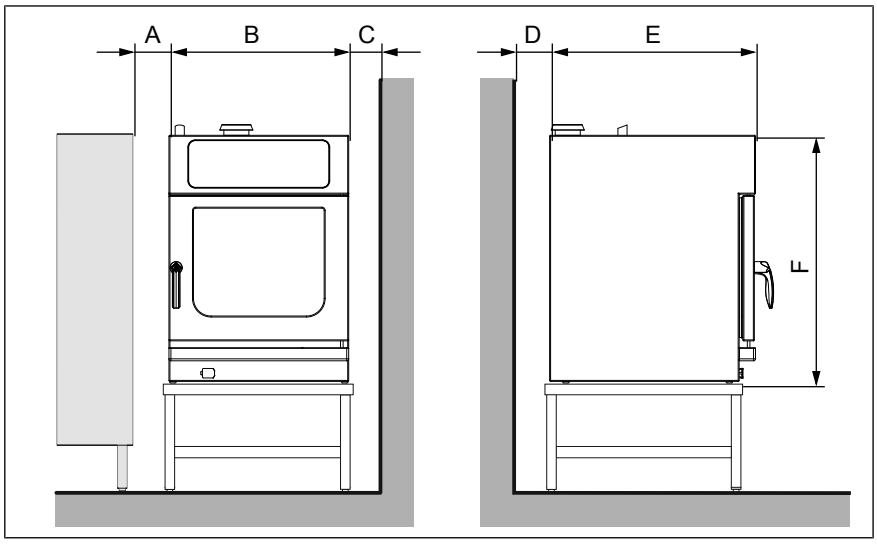

Image: Countertop unit

Size	A	B	C	D	E	F
610	> 50 (1,97)	550 (21,65)	50 (1,97)	50 (1,97)	783 (30,83)	791 (31,14)
623	> 50 (1,97)	550 (21,65)	50 (1,97)	50 (1,97)	630 (24,8)	791 (31,14)
	All dimensions in mm (in)					

3.3 Unit and connection data

Size	610	623
Dimensions		
Unit Length x Width x Height (mm (in))	780 (30,71) x 550 (21,65) x 790 (31,1)	630 (24,8) x 550 (21,65) x 790 (31,1)
Weight		
Unit (kg (lb))	86 (189,6)	66 (145,5)
Emissions		
Heat dissipation at a connected load of 400 V		
Latent heat (W)	1404	936
Sensible heat dissipation (W)	936	924
Noise level (db(A))	< 65	
Operating environment		
Temperature (°C (°F))	5 (41) — 40 (104)	
Relative humidity (%) non-condensing	95	
Electrical connection		

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Size	610	623
Protection class	IPX5	
Type of connection	3PE AC 50/60 Hz, 3NPE AC 50/60 Hz	
Voltage (V)	**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	---
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 50/60 Hz	
Voltage (V)	**208**	
Connected load (kW)	5.3	5.3

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Size	610	623
Fuse (A)	35	35
Voltage (V)	**240**	
Connected load (kW)	6.9	6.9
Fuse (A)	35	35
Type of connection	1NPE AC 50/60 Hz	
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		
Type of water	Softened drinking water, cold	
Carbonate hardness $CaCO_3$(mmol/l (ppm))	< 0,9 (90 ppm)	
Chloride Cl (mg/l)	< 50	
Iron Fe (mg/l)	< 0.1	
Connection pressure (kPa (psi))	200 (29) — 600 (87)	
Connection (")	R 3/4 male thread	
Drinking water connection		
Type of water	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 male thread	
Water consumption for steaming		
Softened drinking water (l/h (gal/h))	10 (2,64)	7,5 (1,98)
Water consumption for combisteaming		
Softened drinking water (l/h (gal/h))	2,2 (0,58)	1,7 (0,45)
Water consumption for WaveClean cleaning program		
Softened drinking water (l (gal))	1,3 (0,34)	
Drinking water (l (gal))	17,7 (4,68)	
Waste water connection		
Waste water type	Dirty water	
Maximum length (m (ft))	1 (3,3)	

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Size	610	623
Temperature-resistant to (°C (°F))	95 (203)	
Connection (mm (in))	40 (1,57)	
Maximum flow rate (l/min (gal/min))	10 (2,64)	

Transformer voltage

Type of connection	3NPE / AC 50/60 Hz, 3PE / AC 50/60 Hz	
Voltage range (V)	208 — 240	
Transformer	T1	
Wire identification or color	blue	red
Voltage measured (V)	Voltage at transformer (V)	
208	0	208
240	0	240

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4 Transporting the unit

⚠ CAUTION

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

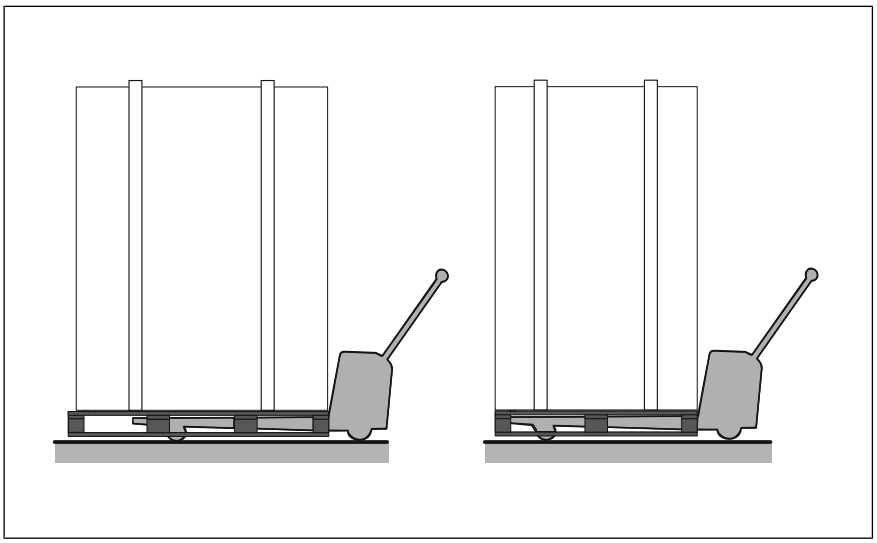

Image: Lengthwise and crosswise transport on pallet

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

4.2 Unpacking the unit

⚠ CAUTION

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.

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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 "Cleaning and maintaining the unit" in the operating instructions).
5. Enter the information from the nameplate into the Start-up operation report.

5 Installing the unit

⚠ CAUTION

Risk of crushing from improper installation

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

⚠ CAUTION

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 unit

- Do not install the unit close to heat sources.

5.1 Minimum clearances

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).
- To ceilings: at least 500 mm (19,69 in).
- There must be no water, gas or electric lines in the ceiling above the unit.

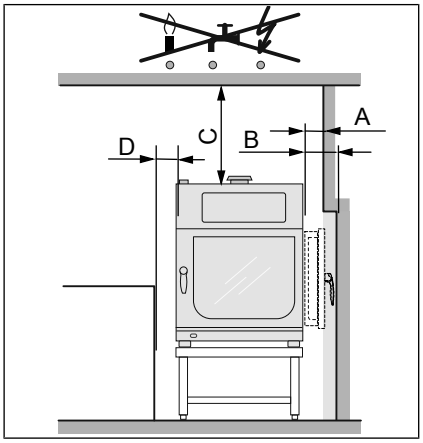

Image: Minimum clearances to walls, ceiling or units

A	B	C	D
50 (1,97)	100 (3,94)	500 (19,69)	50 (1,97)
All dimensions in mm (in)			

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5.2 Setting up the unit on a work surface or underframe

⚠ CAUTION

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.

Prerequisite Work surface / underframe must support the weight of the unit
Work surface / underframe must be aligned horizontally
Underframe must be set up in accordance with the planning drawing

1. Lift the unit.
2. Place the unit on the work surface or on the upright bolts of the underframe.

⚠ CAUTION

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).

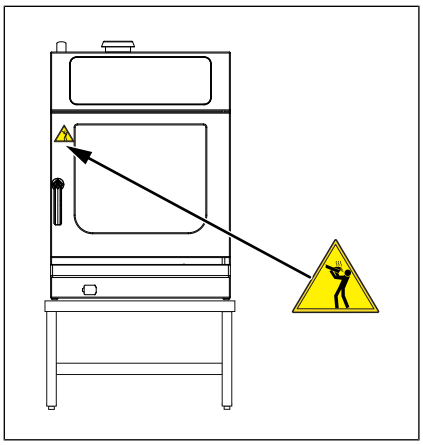

Image: Attach warning sign regarding the shelf height

3. Clean the adhesion surface for the sticker.
4. Attach the sticker to the cooking chamber door at a height of 1,6 m (5,3 ft).

5.2.1 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.

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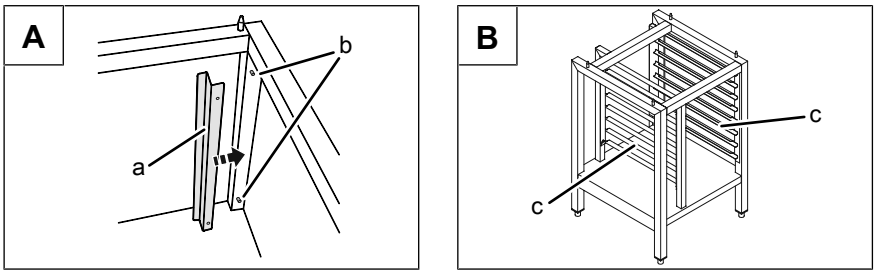

Image: A Stop profile, B Hang-in frame

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.

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.

⚠ CAUTION

Risk of injury from sharp edges

- Wear protective gloves.

NOTICE

Risk of property damage from damage to the lines

- Remove 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.

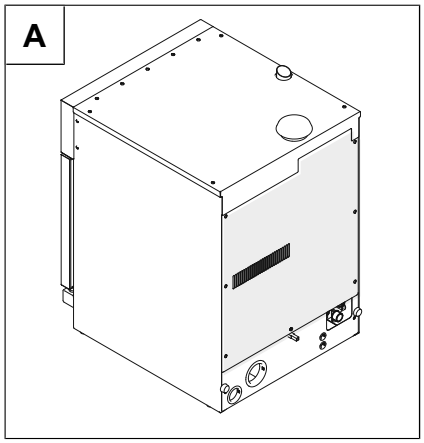

Image: Remove the rear panel, A Tabletop unit,

1. Unscrew the screws on the rear panel.
2. Remove the rear panel.

Attaching the rear panel

NOTICE

Risk of property damage from leaky housing

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

1. Carefully press in the rear panel.

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2. Screw in the screws on the rear panel.

↳ The rear panel 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

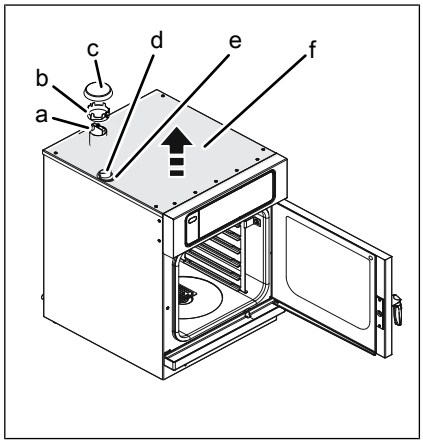

Image: Removing the unit cover

a	Air inlet nozzle	d	Steam outlet
b	Ventilator ring	e	Seal
c	Lid	f	Unit cover

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.

Attaching the unit cover on a tabletop unit

NOTICE

Risk of property damage from leaky housing

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

1. Brush the seal on the steam outlet nozzle with an acid-free slip agent.
2. 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.
5. 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.

6.1.3 Special Wendy´s installation requirements

Before connecting the Combi, make sure all components, foam, and cardboard packing is removed from the inside of the Combi.

To affix the combi to the wire stand, locate the clamps as seen below.

Affix the notched side of the clamp so that the screw can be affixed through the bottom of the back of the unit as seen below.

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Find the elbow as seen below and affix it to the left side of the back of the unit.

6.1.4 Attaching the hygiene plate

INFORMATION

The hygiene plate is enclosed with the unit.

Before the electrical connection is made, guide the lines through the openings in the hygiene plate.

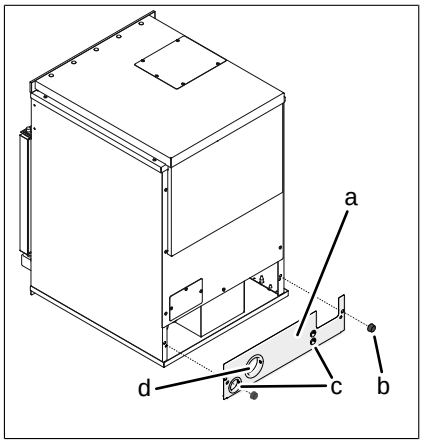

Image: Attaching the hygiene plate

a	Hygiene plate	c	Threaded cable connection
b	Rubber buffer	d	Gland for waste water pipe

1. Remove the rubber buffer from the housing.
2. Press the hygiene plate onto the housing.
3. Fasten the hygiene plate with the rubber buffer to the housing.

6.2 Making the electrical connection

NOTICE

Risk of property damage from wrong supply voltage

- Prior to connecting, measure the supply voltage and check the voltage set on the transformer inside the unit.

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.

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.

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Electrical connection line

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

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: H05RN-F).
Connection of the unit with a connector.	
Permanent connection for fixed installation with a hard-wired line directly connected to the unit.	PVC sheathed cable for permanent installation in buildings or damp and wet rooms.

Permanent connection

⚠ CAUTION

Risk of property damage and personal injury from improper installation

- In the case of a permanent connection, install an all-pin separating device before the unit.

Install an all-pin separating device if the unit will be connected permanently to the electrical outlet.

Plug-in connection

⚠ CAUTION

Risk of property damage and personal injury from improper installation

- 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 ourlet 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

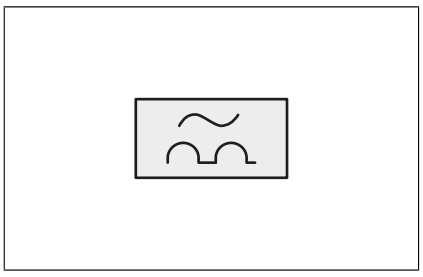

Image: RCD switch type A circuit symbol

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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.

Potential equalization

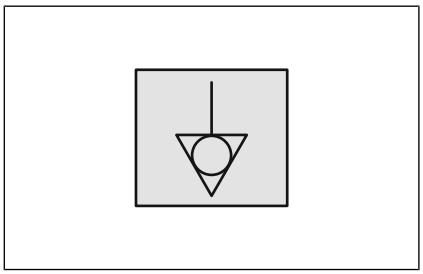

Image: Potential equalization symbol

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

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.

6.2.1 Adjusting the unit to the supply voltage

The unit is set to a specific supply voltage or voltage range when delivered.

If the voltage on site differs from the preset supply voltage, damage may occur.

Prior to connecting the unit, you must measure the supply voltage, check the transformers in the unit and reposition the connections if necessary.

⚠ 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.

NOTICE

Risk of property damage from wrong supply voltage

- Prior to connecting, measure the supply voltage and check the voltage set on the transformer inside the unit.

NOTICE

Risk of property damage from wrong supply voltage

- If the unit is converted from 208 V to 240 V, the power output must be limited to 80 % (see "Basic setting").

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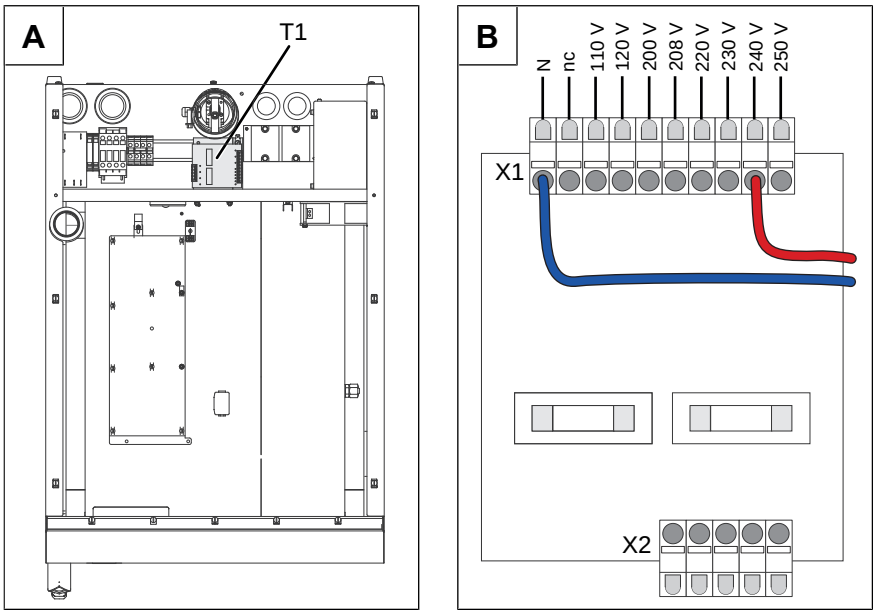

Image: A Transformer T1 location; B Transformer connections for control system

Prerequisite Unit dead

1. Use an appropriate meter to measure the supply voltage.
   ↳ The voltage range must match the information on the nameplate.
   ↳ If voltage fluctuations are to be expected, take the maximum expected voltage into account.
2. Check whether the transformer voltage is within the specified range (see "Unit and connection data").
3. If the set voltage differs, remove the unit cover (see "Opening and closing the housing").
4. Change the transformer voltage by switching the connections.
5. Document the new voltage that was set on the sticker.
6. Attach the unit cover.
7. Fill out the Start-up operation report.

6.2.2 Description of the electrical connection

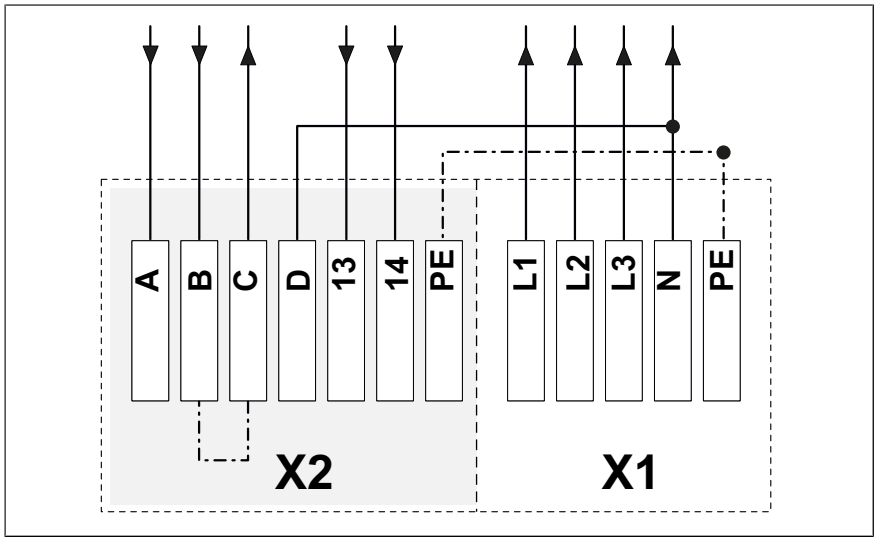

Image: Electrical connection terminal diagram in the unit

A, B, C, D	Power optimization system	PE	Protective conductor
13, 14	Potential-free contact	X1	Connection to electrical outlet
L1, L2, L3	Line conductors	X2	Power optimization system connection (POS)
N	Neutral conductor		

6.2.3 Connecting the electrical connection line

⚠ 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.

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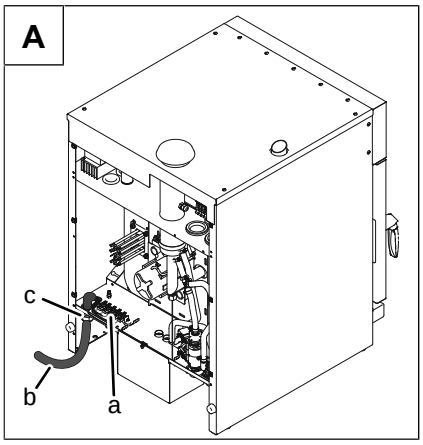

Image: Electrical connection line, A Tabletop unit

a Connection terminals X1
b Electrical connection line
c Threaded cable connection

Prerequisite Unit dead
Electrical connection line dead
Unit adjusted to supply voltage
Housing opened

1. Feed the electrical connection line into the unit.
2. Connect the electrical connection line in accordance with the wiring diagram.
3. Secure the electrical connection line with cable ties.
4. Close the housing (see "Opening and closing the housing").
5. Fill out the Start-up operation report.

6.2.4 Connecting the power optimization system

The unit can be connected to a power optimization system. The required cable length in the unit for the power optimization system corresponds to the height of the unit.

⚠ 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.

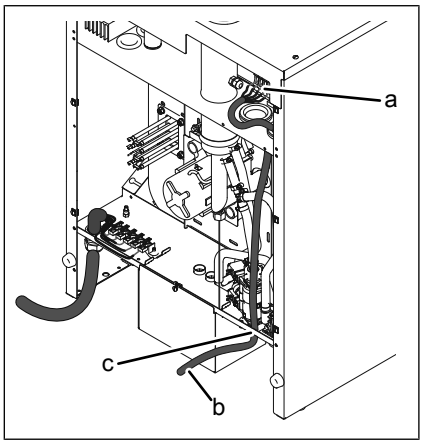

Image: Connecting the power optimization system

a Connection terminals X2 for power optimization system
b electrical connection line for power optimization system
c Threaded cable connection

Prerequisite Unit dead
Electrical connection line dead
Housing opened

1. Pull the electrical connection line into the unit through the cable gland.
2. Route the electrical connection line to the connection terminals.
3. Connect the electrical connection line in accordance with the wiring diagram.
4. Secure the electrical connection line with cable ties.
5. Register the power optimization system in the basic settings of the control (see "Making the basic settings of the control").
6. Fill out the Start-up operation report.

6.2.5 Connecting the potential equalization

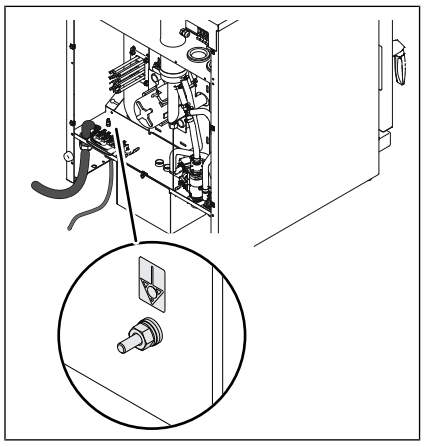

Image: Connecting the potential equalization

1. Route and connect the potential equalization line to the marked connection.

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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.

⚠ 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.

Minimum requirements for the network cable

Type of network	Ethernet
Cable quality	4-pair shrouded patch cable Cat-6 S/FTP
Connection to unit	Shrouded RJ45 connector

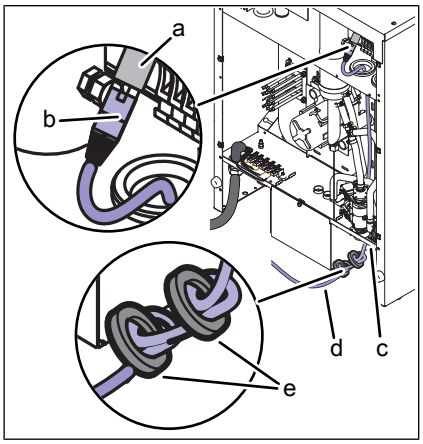

Image: Connecting the kitchen guiding system

a RJ45 socket
b RJ45 connector
c Threaded cable connection
d Network cable
e Ferrite ring

Prerequisite Unit dead
Housing opened

1. Pull the network cable into the unit through the cable gland.
2. Route the network cable through the two ferrite rings, with one winding through each.
3. Connect the network cable to the unit with the RJ45 connector.
4. Register the network in the basic control setting (see "Making the basic control setting").
5. Fill out the Start-up operation report.

6.4 Performing the basic setting of the control

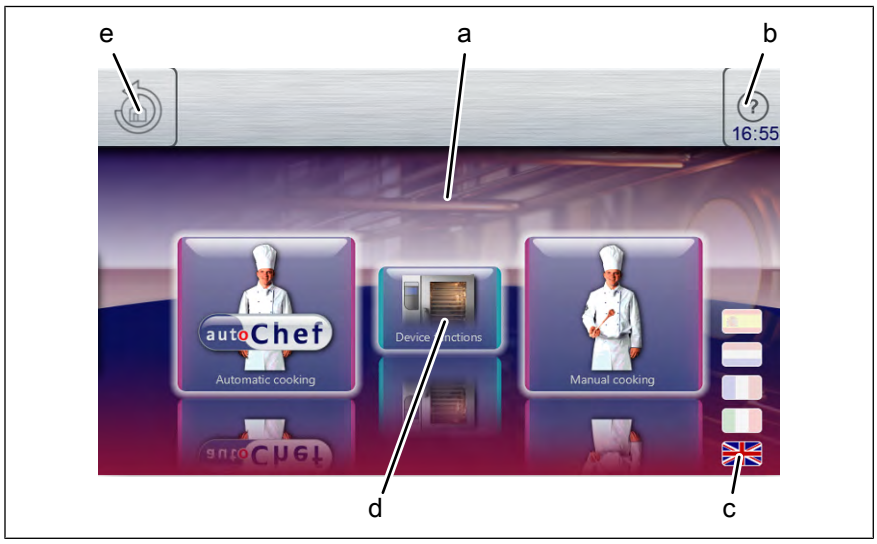

Image: Main menu

a Main menu
b *FlexiHelp* button
c Language selection
d "Unit functions" button
e *Back* 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 *Unit functions* menu is displayed.
2. Tap the "Unit settings" field.
   ↳ The *PIN* window opens.
3. Enter the password.
4. Tap the *Confirm* 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.

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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.

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

⚠ CAUTION

Hygiene risk from contaminated drinking water

- The connection to the drinking water supply must be equipped with a back-flow preventer.

NOTICE

Risk of property damage from the wrong water quality

- Ensure that the water quality complies with the unit and connection data.

INFORMATION

Always connect both water connections to the unit.

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.

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6.5.1 Connecting the drinking water connection line

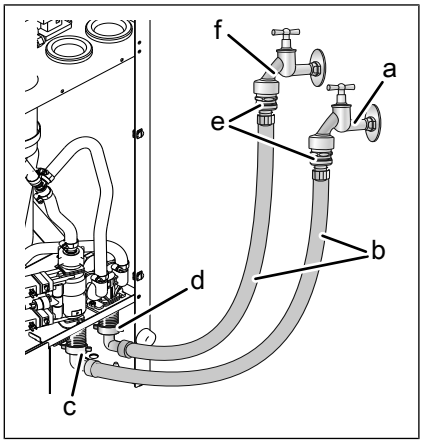

Image: Water connection

a	Softened drinking water	d	Drinking water connection
b	Connection line	e	Backflow preventer
c	Softened drinking water connection	f	Drinking water

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.

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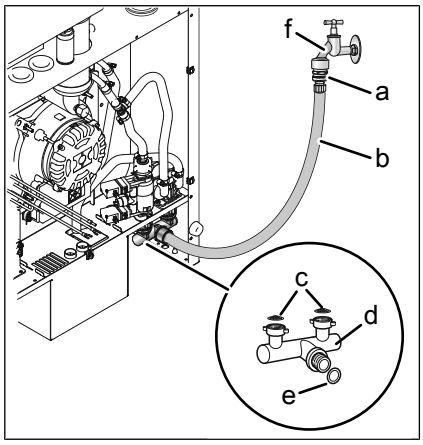

Image: Connecting softened drinking water to both connections

a	Backflow preventer	d	T-piece
b	Connection line	e	Seal
c	Dirt filter	f	Softened drinking water

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.
5. Connect the connection line for softened drinking water to the T-piece 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.

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

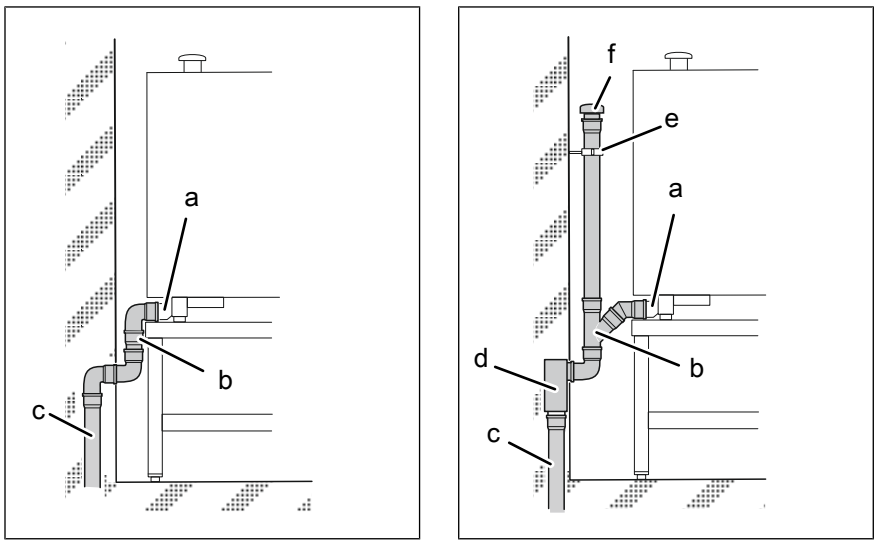

Image: Waste water line to a permanent connection

a	Waste water connection	d	Waste water system siphon
b	Waste water line	e	Pipe clamp
c	Waste water system	f	Vacuum breaker

INFORMATION

If a siphon is installed in the waste water system, a vacuum breaker must be installed 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.

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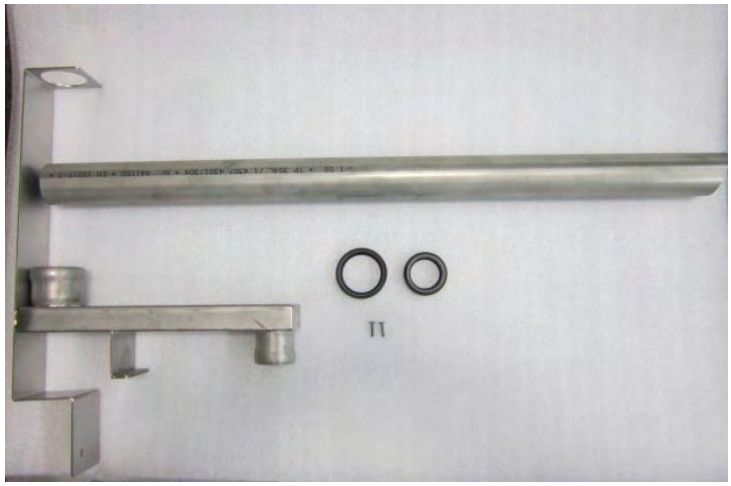
6.6.2 Special Wendy´s installation requierements

Remove the parts from the Vent Diverter Kit box and make sure you have all parts as seen below.



2 screws
1 vent diverter assembly
1 diverter pipe
2 two gaskets

1. Place one gasket on the vent diverter connection.
2. Place one gasket on the vent diverter pipe exit connection.
3. Affix the vent diverter assembly to the vent pipe on the top of the combi, so that the back bracket rests on the back of the Combi.

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4. Align to holes and affix to Combi by tightening screws in location as denoted below by red arrows.

5. Slide in the long pipe into the exit of the vent diverter assembly.

6. Affix tightly as seen below.

7 Installing the unit

⚠ CAUTION

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.

⚠ CAUTION

Risk of crushing from improper installation

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

⚠ CAUTION

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.

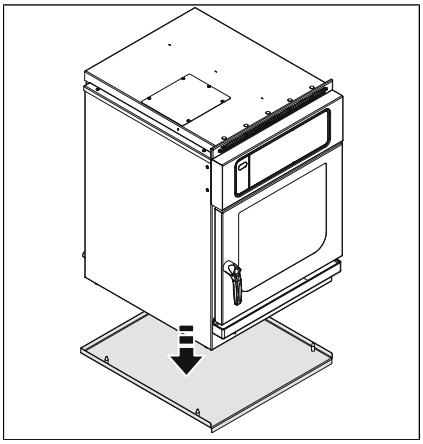

Image: Place the unit on the shelf plate

Prerequisite Electrical connection made
Water connection made or prepared
Wastewater connection made or prepared
Housing closed

1. Place the unit over the stud bolts onto the shelf plate.
   ↳ The downward angle of the shelf plate is at the front.
2. Lift the unit with the shelf plate and push it into the assembly.
3. Carry out the remaining work for the connection of the unit (see "Connecting unit").
4. Fill out the Start-up operation report.

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8 Testing the function

⚠ DANGER

Risk of personal injury and property damage from unsuccessful operational check

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

Prerequisite Electrical connection made

Water connection made

Waste water connection made

Unit cleaned

8.1 Checking the controls

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.
   ↳ 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 inspection of the cooking chamber door

1. Switch on the unit and start any cooking program (see operating instructions).
   ↳ The unit heats up.
   ↳ The fan is turning.
2. Open the cooking chamber door during operation.
   ↳ The unit shuts off the heating function.
   ↳ The fan comes to a stop.
   ↳ 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.

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8.3 Heating the unit up and rinsing it out

1. Switch on the unit.
2. Tap the "Manual cooking" button.
   ↳ The Manual cooking menu is displayed.
3. Run the Steaming cooking mode for 15 minutes at 100 °C.
4. Rinse out the cooking zone thoroughly with clear water.
5. Run the Hot air cooking mode for 5 minutes at 180 °C.
6. Open the cooking zone door and leave it open with a slight gap until the unit is used again.
7. Fill out the Commissioning 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 Filling out the Start-up operation report

General information	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?	☐	☐

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Electrical connection		Yes	No
Electrical connection made properly?		☐	☐
☐ Potential equalization	☐ Power optimization system		
☐ Potential-free contact	☐ …		
Electrical connections made properly?		☐	☐
Fault current device connected directly before this unit?		☐	☐
Fault current device connected before this and other units?		☐	☐
Supply voltage measured? Supply voltage: _____ (V)		☐	☐
Set transformer voltage T1: blue 0 V | red _____ V			
Power connection converted to single-phase?		☐	☐
Relays changed as specified?		☐	☐
Single-phase electrical connection line connected?		☐	☐

Kitchen guiding system	Yes	No
Kitchen guiding system connected properly?	☐	☐

Basic setting of the control		Yes	No
Temperature unit set?		☐	☐
☐ °C	☐ °F		
Date and time set?		☐	☐
Software version identified?		☐	☐
Version: _____			
Altitude set?		☐	☐
☐ 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 %	☐ 80 %		
Supply voltage set?		☐	☐
Voltage: _____ V			
Audible signal volume set?		☐	☐
☐ Low	☐ High		
Signal tone selected?		☐	☐
Volume unit set?		☐	☐
☐ ml	☐ fl.oz. (Imperial)		
☐ fl.oz. (U.S.)			

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Basic setting of the control		Yes	No
Power optimization system set?		☐	☐
☐ On	☐ Off		
Water filter maintenance set?		☐	☐
☐ No maintenance message	☐ Maintenance message at: _____ l (gal)		
Network configuration set?		☐	☐
☐ DHCP	IP address: _____		
Subnet mask: _____	Gateway: _____		
Kitchen guiding system set?		☐	☐
☐ Active	☐ Disabled		
☐ Ethernet TCP port: _____ Unit address: _____	☐ Serial Unit address: _____		

Water connection	Yes	No
Connection pressure within indicated range? Connection pressure: _____ (_____) kPa (psi)	☐	☐
Water connection made properly?	☐	☐
Lines and connections leak-tight?	☐	☐

Water connection		Yes	No
Water connections connected with T-piece?		☐	☐
☐ Connected only to softened drinking water	☐ Connected only to drinking water		

Waste water connection		Yes	No
Waste water connection made in a technically correct manner?		☐	☐
☐ Siphon in the building	☐ Vacuum breaker		
☐ Funnel drain	☐ Floor drainage channel		
Connection size of waste water line: _____ mm (in)			

Function check	Yes	No
Controls functioning?	☐	☐
Monitoring of cooking chamber door functioning?	☐	☐
Unit heated and rinsed?	☐	☐

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

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Electrical installation was made by:			
Company	Installation fitter	Place, date	Signature

The connection to a kitchen guiding system was made by:			
Company	Installation fitter	Place, date	Signature

Water installation was made by:			
Company	Installation fitter	Place, date	Signature

Wastewater installation was made by:			
Company	Installation fitter	Place, date	Signature

Function check was made by:			
Company	Installation fitter	Place, date	Signature

Operator was trained by:			
Company	Installation fitter	Place, date	Signature

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