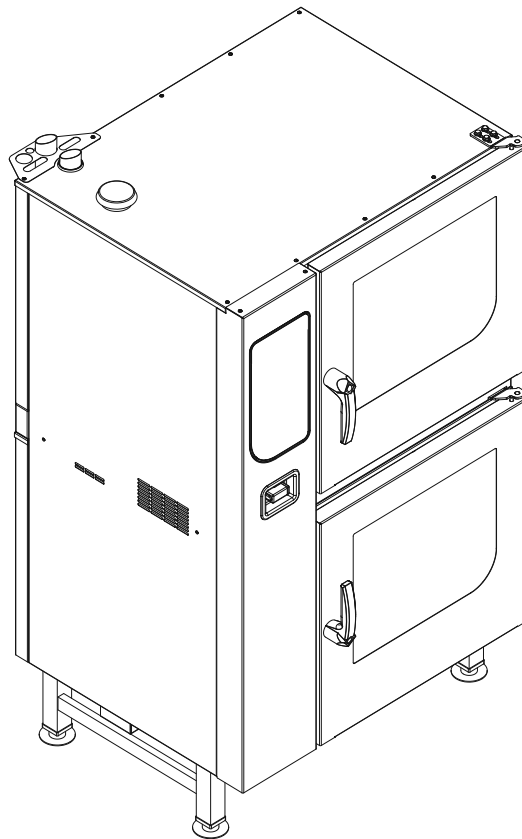


Read the operating instructions prior to
commissioning

Installation instructions

Combisteamer



Unit	Type of energy	Unit type	Model
FlexiCombi Team	Electric	Floor-standing unit	DKECOD615-615 DKECOD615-621 DKECOD621-615 DKECOD621-621 DKECOD115-615 DKECOD115-621 DKECOD121-615 DKECOD121-621

Manufacturer

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1 Introduction

1.1 About this manual

The instruction manual is part of the unit and contains information on safe installation of the unit.

Observe and adhere to the following instructions:

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

Target group The target group for the installation manual is trained technical personnel that is familiar with installing and operating the unit.

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

1.1.1 Explanation of signs



DANGER
Imminent threat of danger

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



WARNING
Possible threat of danger

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



CAUTION
Dangerous situation

Failure to comply can lead to slight or moderately severe injuries.

ATTENTION
Physical damage

Failure to comply can cause physical damage.



Notes for better understanding and operation of the unit.

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

1.2 Use of the unit

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

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

1.3 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,
- Incorrect startup, operation or maintenance of the unit,
- Problems resulting from failure to observe these instructions.

2 Safety information

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

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

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

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

Improper installation Risk of property damage and personal injury from improper installation

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

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

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

Fire prevention Risk of fire from combustible surfaces

- Observe general fire prevention regulations.

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

- Identify hazard areas when transporting, setting up and connecting the unit.
- Prior to starting the installation work, notify any operators present about the procedure.
- Prior to starting the installation work, discuss how to behave in an emergency.
- Use equipment and protective gear suitable for the activity.
- Brace housing components to prevent them from falling over and dropping.

Setup Risk of property damage and personal injury from improper setup

- Wear safety shoes and protective gloves.

Electrical connection Risk of fire from improper connection

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

Risk of electric shock from live components.

- Prior to working on the electrical system, switch off the unit, disconnect the electrical system from the mains and prevent power from being switched on again. Check to ensure absence of voltage.
- Use only insulated tools.

Risk of electric shock

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

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

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

Commissioning Risk of property damage and personal injury from improper commissioning

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

3 Description of the unit

3.1 Overview of the unit

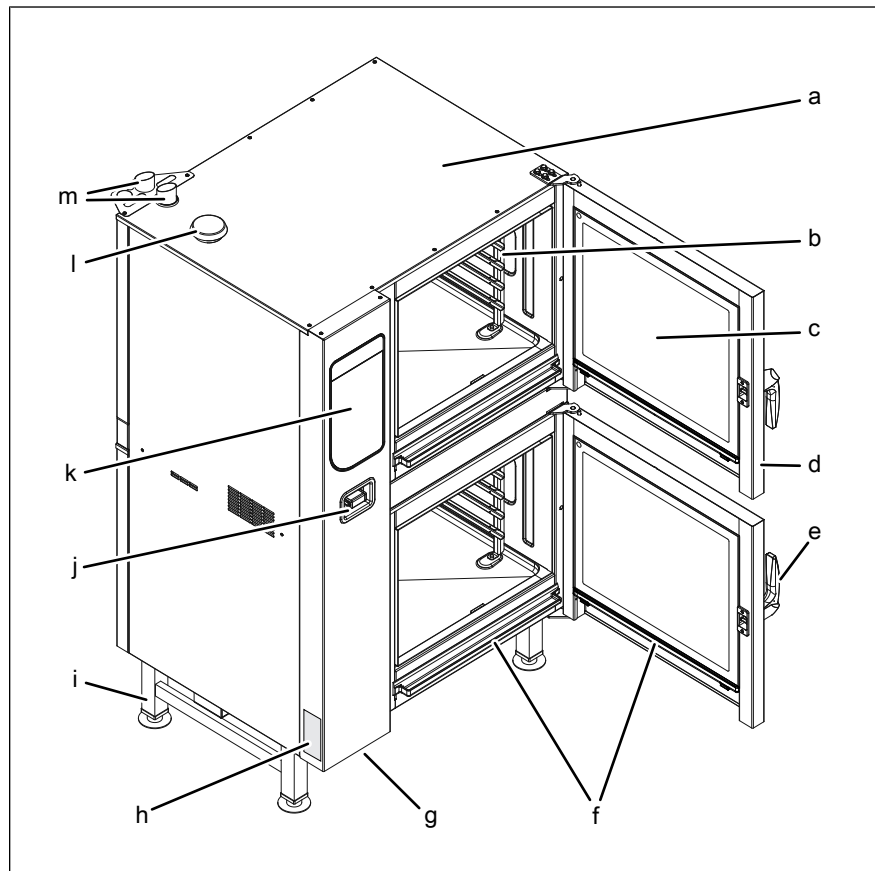


Image: Floor-standing unit

- | | | | |
|---|---------------------|---|---------------|
| a | Housing | h | Nameplate |
| b | Support rack | i | Equipment leg |
| c | Insulated window | j | Hand shower |
| d | Cooking zone door | k | Control unit |
| e | Door handle | l | Air inlet |
| f | Steam drain channel | m | Steam outlet |
| g | USB port (covered) | | |

3.2 Equipment and connection data

FlexiCombi Team

	Model DKECOD			
Size	615-615 615-621	621-621 621-615	115-615 115-621	121-615 121-621
Dimensions				
Unit Length x Width x Height (mm)	997 x 799 x1700		997 x 799 x1900	
Weight				
Unit (kg)	253		291	

	Model			
	6.15	6.21	10.15	10.21
Noise level (db(A))	< 70			
Operating environment				
Temperature	5 – 40 °C			
Relative humidity (%)	95, non-condensing			
Power connection				
Protection class	IPX5, IPX6 (optional)			
Type of connection	3PE / AC 50/60 Hz, 3NPE / AC 50/60 Hz			
Voltage (V)	200			
Connected load (kW)	10.1	16.3	14.7	25.5
Fuse (A)	3 x 35	3 x 50	3 x 50	3 x 80
Voltage (V)	208			
Connected load (kW)	10.2	17.4	15.7	27.3
Fuse (A)	3 x 35	3 x 50	3 x 50	3 x 80
Voltage (V)	230			
Connected load (kW)	12.6	21.4	19.3	33.6
Fuse (A)	3 x 35	3 x 63	3 x 63	3 x 100
Voltage (V)	240			
Connected load (kW)	13.7	23.3	21	36.5
Fuse (A)	3 x 35	3 x 63	3 x 63	3 x 100
Voltage (V)	380			
Connected load (kW)	9.4	18.9	14.4	27.6
Fuse (A)	3 x 16	3 x 35	3 x 25	3 x 50
Voltage (V)	400			
Connected load (kW)	10.4	20.9	15.9	30.5
Fuse (A)	3 x 16	3 x 35	3 x 25	3 x 50
Voltage (V)	415			
Connected load (kW)	11.2	22.5	17.1	32.8

Description of the unit

	Model			
	6.15	6.21	10.15	10.21
Fuse (A)	3 x 16	3 x 35	3 x 25	3 x 50
Voltage (V)	440			
Connected load (kW)	10.4	20.9	15.8	30.5
Fuse (A)	3 x 16	3 x 35	3 x 25	3 x 50
Voltage (V)	480			
Connected load (kW)	12.3	20.9	18.9	32.6
Fuse (A)	3 x 16	3 x 35	3 x 25	3 x 50
Emissions				
Latent heat (W) *	1780	3670	2750	5400
Sensible heat (W)	1190	2450	1840	3600
* If the unit is operated with a condensation hood, the stated value is reduced by 80 %; the sensible heat increases by the reduced value.				
The sensible and latent heat amounts are determined in Germany on the basis of VDI 2052 at a connection voltage of 400 V. The regulations that apply in other regions may differ from this.				
Softened tap water connection				
Type of water	Softened tap water, cold			
Carbonate hardness CaCO ₃ (mmol/l)	< 1.5			
Chloride Cl (mg/l)	< 50			
Iron Fe (mg/l)	< 0.1			
Connection pressure (kPa), (bar)	200 – 600, 2 – 6			
Connection (")	R ¾ male threads			
Tap water connection				
Type of water	Tap water, cold			
Carbonate hardness CaCO ₃ (mmol/l)	< 4			
Connection pressure (kPa), (bar)	200 – 600, 2 – 6			
Connection (")	R ¾ male threads			
Water consumption for steaming				
Softened tap water (l/h)	16	21	18	24
Water consumption for Combisteaming				
Softened tap water (l/h)	3.5	4.6	4	5.3
Water consumption for WaveClean cleaning program				
Softened tap water (l)	3			
Tap water (l)	32			
Wastewater connection				
Wastewater type	Dirty water, maximum 80 °C			

10016528-0AIBE--

	Model			
	6.15	6.21	10.15	10.21
Connection to unit (mm)	DN 50			
Maximum flow rate (l/min)	10			
Exhaust air connection				
Connection to unit (mm)	DN 50			

Basic control setting

Basic setting	Parameters	Standard value	Setting range	Explanation
Date / time			yyyy - mm - dd hh : mm	Year - Month - Day Hour : Minute
Temperature unit	1	°C	°C	Celsius (°C)
			°F	Fahrenheit (°F)
Altitude	2	0 — 999	0 — 999 m	Request the altitude above sea level from the closest weather station. If the altitude is unknown, set 0 – 999 m.
			1000 — 1999 m	
			2000 — 2499 m	
			2500 m or higher	
80 % power	3	100	80 %	Power limited to 80 % is possible (for special applications).
			100 %	
Current voltage	14	400	100 — 500 V	Enter the local, mean voltage between the line conductors.
Audible signal volume	33	Middle	Individual	Setting of the volume.
Signal tones		Sound 1	Sound 1 - 4	There are 4 sets of different sounds available.
Volume unit	34	ml	(ml)	Millilitre (ml)
			(fl.oz.)	Fluid ounce (fl.oz.)
	35	Imperial (fl.oz.)	Imperial (fl.oz.)	Imperial fluid ounces
			U.S. (fl.oz.)	U.S. fluid ounces
Power optimisation system	42	Off	On	If a power optimisation system is connected, "On" must be selected for the unit to heat.
			Off	
Water filter maintenance	44	0	0 — 99999 l	Water quantity up to the maintenance message. 0 = No maintenance message
Network			Network address and DHCP	Select and set interface.
Kitchen management system		Disabled	Active	Port and unit address can be entered.
			Disabled	

Description of the unit

Basic setting	Parameters	Standard value	Setting range	Explanation
Settings parameters				1. Set parameters via the roller. 2. Tap the "Read" button to display the set values. 3. Specify another value via the button panel. 4. Save the new value with the "Write" button.

Basic control setting (Advanced)

Basic setting	Parameters	Standard value	Setting range	Explanation
Ready2Cook pre-heating temperature	4	15	0 — 30 %	When fully loaded with large volumes (roast meat, loaf of bread), increase the preheating temperature, so that the temperature in the cooking zone does not drop too severely.
Time extension for condensation hood	5	60	0 — 600 s	Time extension for the condensation hood after the cooking zone door has been opened
Preselected steaming temperature	9	100	30 — 130 °C	Preset temperature for steaming
Preselected combi-steaming temperature	10	150	30 — 250 °C	Preset temperature for combisteaming
Preselected hot air temperature	11	180	30 — 250 °C	Preset temperature for hot air
Preselected regeneration temperature	12	120	30 — 200 °C	Preset temperature for regeneration
Maximum waiting time after Ready2Cook for T < 250 °C	37	120	0 — 300 min	Maximum waiting time after reaching the Ready2Cook temperature, for set value < 250 °C
Maximum waiting time after Ready2Cook for T > 250 °C	38	30	0 — 60 min	Maximum waiting time after reaching the Ready2Cook temperature, for set value > 250 °C
Generator mode	45	0	0 = No 1 = Yes	When a generator is used to supply electricity
Cleaning monitoring	46	0	0 = No 1 = Yes	When cleaning monitoring is activated, a message appears if the cleaning program has not been started for more than 1 day.
Steam elimination	48	1	0 = Low 1 = Normal 2 = High	Set the steam elimination level
Time format	675	0	0 = 24 h 1 = 12 h	Set the 12 h or 24 h time format

4 Transporting the unit

**CAUTION**

Risk of property damage and personnel injury from tipping equipment

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

ATTENTION

Risk of physical damage from improper transport

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

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

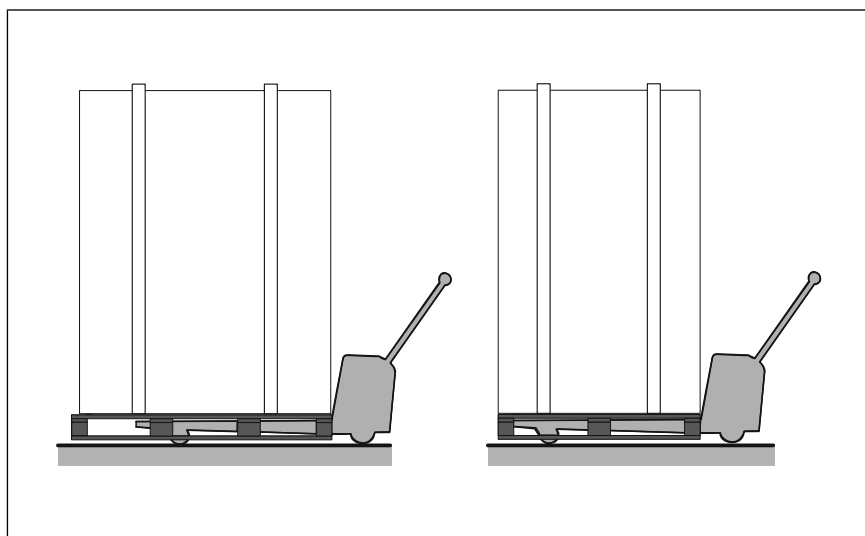


Image: Lengthwise and crosswise transport on pallet

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

4.2 Unpacking the unit



CAUTION

Risk of injury from sharp edges

- Wear protective gloves.
-



When unpacking the unit, inspect it for transport damage.

Do not install damaged units or put into service.

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

5 Setting up the unit

**WARNING****Risk of burns from spraying hot fat**

- Set up deep fat fryers outside the range of the hand shower.

**CAUTION****Risk of crushing from improper setup**

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

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

- Observe applicable regional fire prevention regulations.

ATTENTION**Risk of physical damage from overheating of the unit**

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

5.1 Minimum clearances

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

- At least 50 mm on the left and right and at the rear.
- For service work 500 mm on the left is recommended.
- Clearance from heat sources (baking oven) to be 500 mm on the left.
- Clearance from deep-fat fryers to be at least one length of the hand-held shower on the left and right.
- There must be no water, gas or electric lines in the ceiling above the unit.

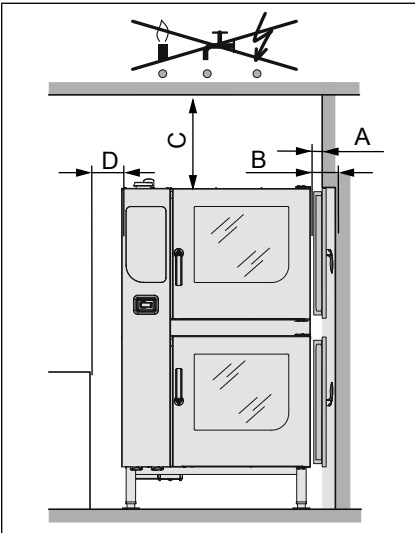


Image: Minimum clearances from walls, ceiling or equipment

A	B	C	D
50	100	500	50
All dimensions in mm			

5.2 Lifting the unit off the pallet



CAUTION
Risk of property damage and personnel injury from tipping equipment

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

ATTENTION
Risk of physical damage from lifting the unit incorrectly

- Place the forks of the lift truck next to the waste trap.

Additional support at the rear of the unit is required to lift it safely.

Requirement for additional support for the unit

- Square metal profile at least 40 x 40 x 2 mm.
- Or timber at least 40 x 40 mm.



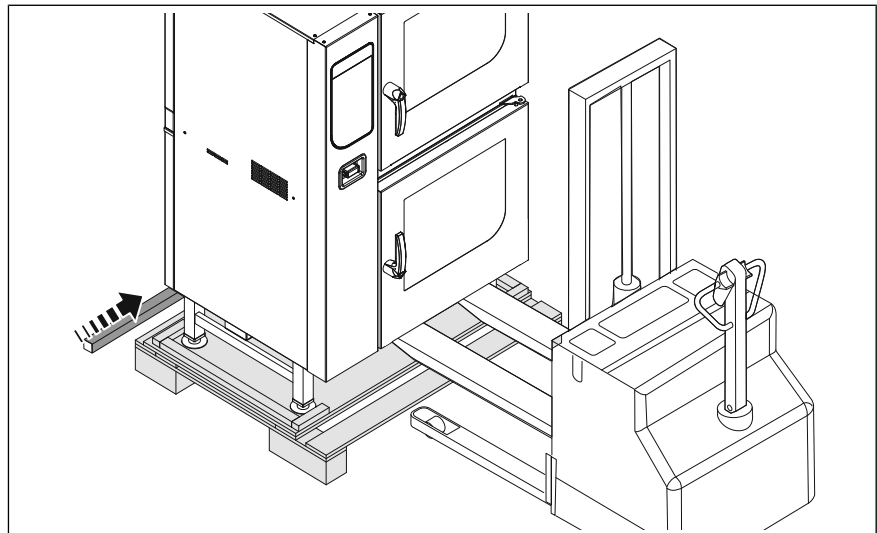


Image: Lifting the unit off the pallet

Requirement Unit unpacked
 Protective film removed
 Unit cleaned
 The rear support is present

1. Slide the forks of the pallet truck under the unit and to the right of the waste trap.
2. Place the rear support of the unit on the forks of the pallet truck.
3. Gently raise the forks and make sure, that the rear support does not shift and that it is securely in contact with the unit.
4. Lift the unit carefully off the pallet.

5.3 Placing the unit on the equipment legs

Requirement The floor must support the weight of the unit

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

5.4 Aligning the unit

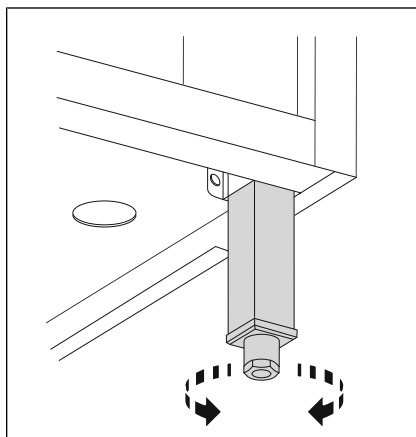


Image: Placing the unit on the equipment legs

1. Place a spirit level on the unit.
2. Level the unit by screwing the equipment legs in or out.

6 Connecting the unit

6.1 Opening and closing the housing

**DANGER**

Risk of personal injury and physical damage from electric shock

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

**CAUTION**

Risk of injury from sharp edges

- Wear protective gloves.

ATTENTION

Risk of physical damage from damage to the lines

- Remove and attach housing components carefully.

6.1.1 Removing and attaching side wall

Removing side wall

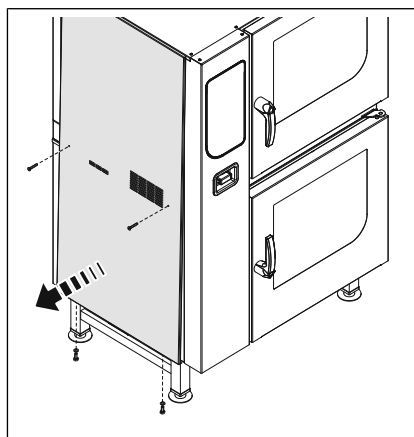


Image: Removing the side wall

1. Unscrew the screws in the middle of the side wall.
2. Unscrew the screws at the bottom of the side wall.
3. Pull the side wall forwards at the bottom edge.
4. Remove the side wall.

Attaching side wall

ATTENTION

Risk of physical damage from leaky housing

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

1. Insert the side wall at the top edge.
2. Carefully press the side wall in at the bottom.
3. Fasten the bottom of the side wall with the screws.
4. Fasten the screws in the middle of the side wall.
5. Check that the side wall is in contact with the unit on all sides.

6.2 Making the electrical connection

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

Wiring diagram

The wiring diagram is included with the unit.

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

Installation work

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

Power connection cable

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

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



The units must be connected individually.

Do **not** bring the power connection cables together.

Insulation monitoring

If there is an unearthed network (IT network), the unit can be incorporated into the insulation monitoring.

Residual-current protective device

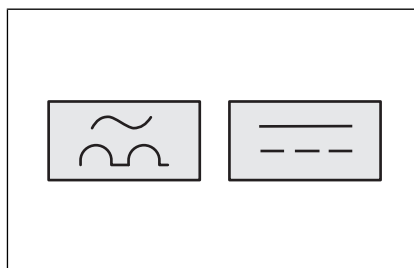


Image: RCD switch type B circuit symbol

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

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

Equipotential bonding

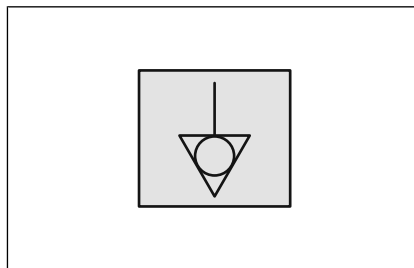


Image: Equipotential bonding symbol

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

Permanent connection



CAUTION

Risk of property damage and personal injury from improper installation

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

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

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 power-supply mains, use plugs and sockets according to IEC60309.

The socket must be readily accessible so that the unit can be disconnected from the electric mains at any time.

6.2.1 Connecting the power connection cable



DANGER

Risk of personal injury and physical damage from electric shock

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



DANGER

Risk of personal injury and physical damage from electric shock

- Before connecting, ensure that the power connection cable has been disconnected from the power supply.
- Ensure that the power connection cable is undamaged.

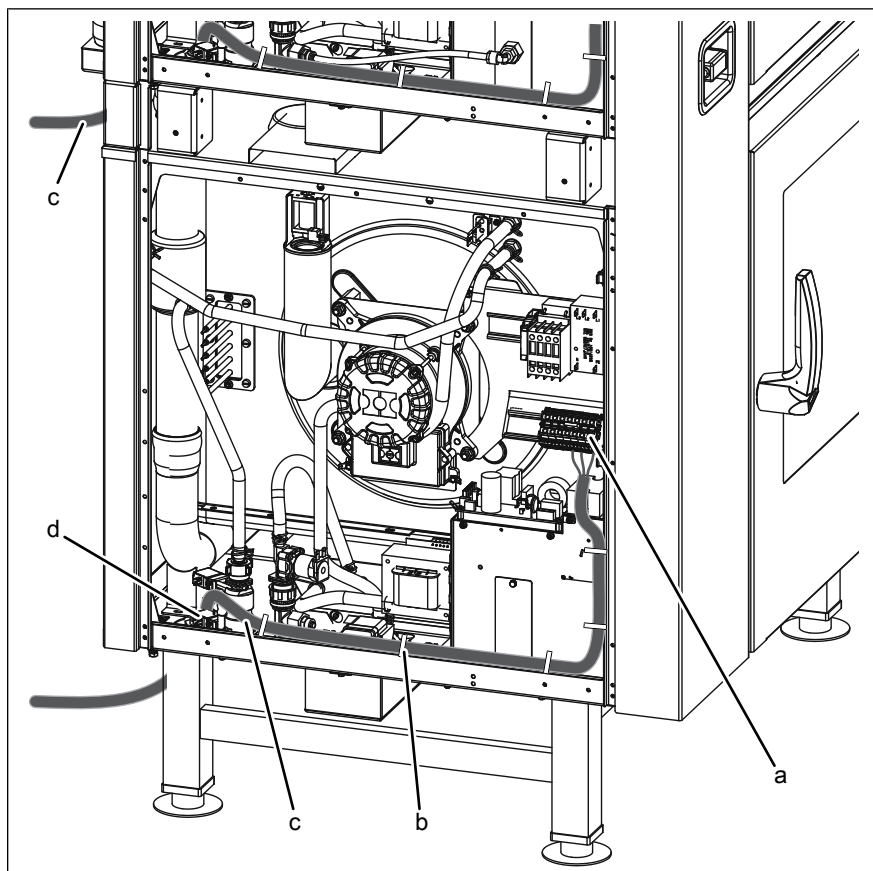


Image: Connecting the power connection cable

a Connection terminals
b Cable tie

c Power connection cable
d Cable gland



The units must be connected individually.
Do **not** bring the power connection cables together.

Requirement

Unit not live

Power connection cable not live

Side wall open

1. Insert the power connection cable into the unit through the cable gland.
2. Connect the power connection cable in accordance with the wiring diagram.
3. Secure the power connection cable with cable ties.
4. Tighten the cable gland securely to provide strain relief.
5. Close the housing (see "Opening and closing the housing").
6. Fill out the Commissioning report.

6.2.2 Connecting the power optimizing system

The unit can be connected to a power optimisation system.



DANGER

Risk of personal injury and physical damage from electric shock

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



DANGER

Risk of personal injury and physical damage from electric shock

- Before connecting, ensure that the power connection cable has been disconnected from the power supply.
- Ensure that the power connection cable is undamaged.



The units must be connected individually.
Do **not** bring the power connection cables together.

Requirement

Unit not live

Power connection cable not live

Housing opened

1. Pull the power connection cable into the unit through the cable gland.
2. Bring the power connection cable to the connection terminals.
3. Connect the power connection cable in accordance with the wiring diagram.
4. Secure the power connection cable with cable ties.

5. Register the power optimisation system in the basic control settings (see "Making the basic control settings").
6. Fill out the Commissioning report.

6.2.3 Connecting to the potential equalisation circuit

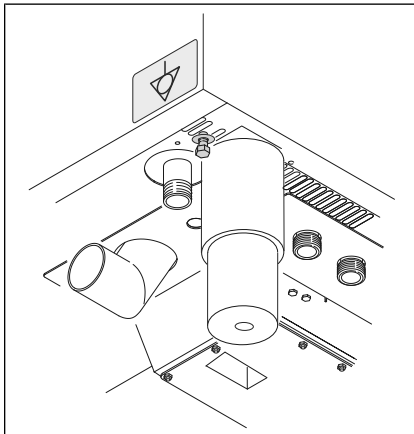


Image: Connecting the potential equalisation circuit



Perform this for each unit separately.

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

6.3 Connecting the kitchen management system

The units can be connected with a RJ45 plug to a kitchen management system.



DANGER

Risk of personal injury and physical damage from electric shock

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

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 plug

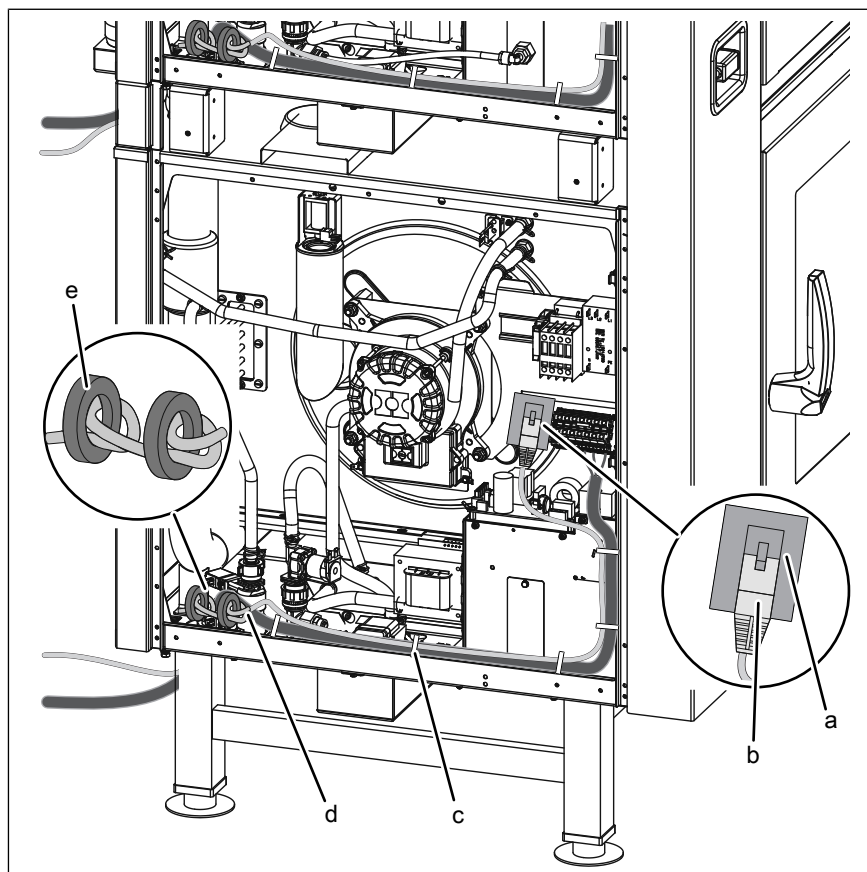


Image: Connecting the kitchen management system

- | | |
|---------------|-----------------|
| a RJ45 socket | d Network cable |
| b RJ45 plug | e Ferrite ring |
| c Cable tie | |



Perform this for each unit separately.

Requirement Unit not live
Housing opened

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

6.4 Making the basic control setting

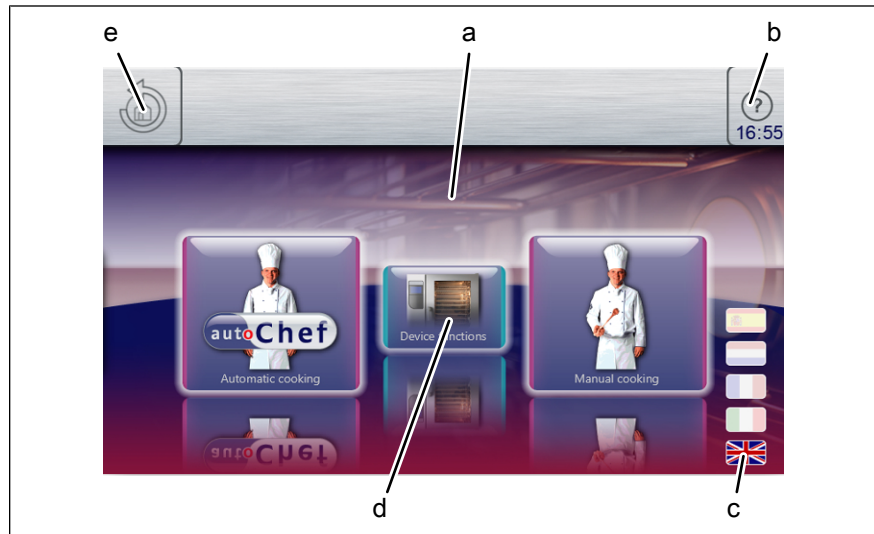


Image: Main menu

- | | |
|---------------------------|--------------------------------|
| a Main menu | d "Equipment functions" button |
| b <i>FlexiHelp</i> button | e <i>Back</i> button |
| c Language selection | |

6.4.1 Changing the basic control setting

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



The basic settings are made in the dialogue.
Advanced settings are made via the parameters for the settings.



Perform this for each unit separately.

Requirement The unit is switched on
The Main menu is displayed

1. Tap the "Equipment functions" button.
↳ The *Equipment functions* menu is displayed.
2. Tap the "Equipment settings" field.
↳ The *PIN* window opens.
3. Enter the password.
4. Tap the *Confirm* button.
↳ The *Equipment settings* menu is displayed.
↳ The basic settings can be changed (see "Equipment and connection data").
5. Fill out the Commissioning report.

6.5 Making the water connection

Installation work involving drinking water must be performed by an authorised plumbing contractor.

Observe applicable regional regulations with regard to drinking water installations and connection data (see "Equipment and connection data").

The unit has a connection for permanent attachment the drinking water system.

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 backflow preventer.

ATTENTION

Risk of physical damage from the wrong water quality

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



Always connect both water connections to the unit.

6.5.1 Connecting the tap water connection line



The units must be connected individually.

Do **not** bring the power connection cables together.

Requirement Water pressure complies with specifications (see "Equipment and connection data")

Backflow preventers installed

Pressure-resistant connection lines suitable for tap water available

1. Connect the connection lines to the drinking water taps with seals.
2. Flush the connection lines thoroughly.
3. Insert dirt filters into the water connections on the unit.
4. Connect the tap water connection line to the unit.
5. Connect the softened tap water connection line to the unit.
6. Open the drinking water taps and check the threaded fittings for leaks.
7. Fill out the commissioning report.

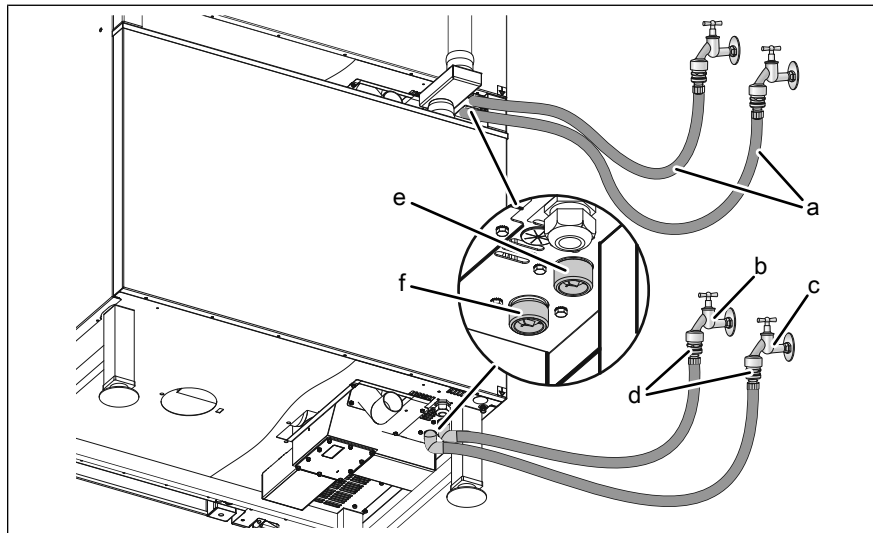


Image: Water connection

- | | |
|----------------------|---------------------------------|
| a Connection line | d Backflow preventer |
| b Softened tap water | e Softened tap water connection |
| c Tap water | f Tap water connection |

6.5.2 Connecting softened tap water to both connections

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



The units must be connected individually.

Do **not** bring the power connection cables together.

Requirement Water pressure complies with specifications (see "Equipment and connection data")

Backflow preventers installed

Pressure-resistant connection line available

1. Connect the connection line to the drinking water tap for softened tap water with 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 tap water to the T-piece with a seal.
6. Open the drinking water tap and check the threaded fittings for leaks.
7. Fill out the commissioning report.

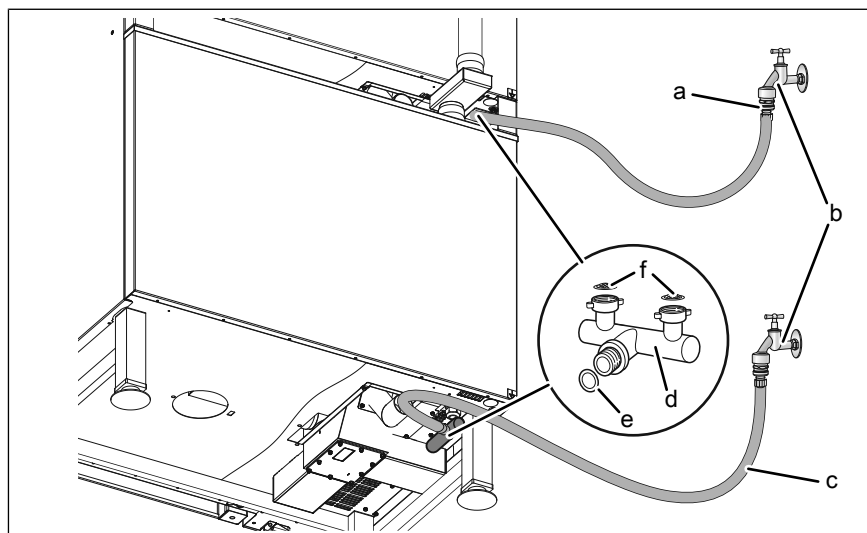


Image: Connecting softened tap water to both connections

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

6.6 Making the wastewater connection

Installation work involving wastewater must be performed by an authorised plumbing contractor.

Observe the applicable regional regulations of the sewage utility involved.

6.6.1 Connecting the wastewater line to a permanent connection



If a waste trap is installed in the wastewater system, a vacuum breaker must be installed in the wastewater line.

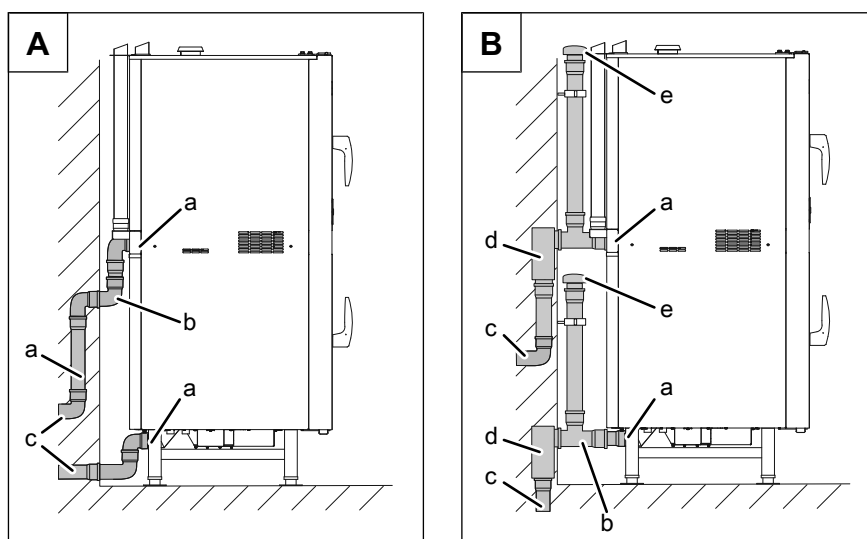


Image: A Permanent connection without waste trap, B Permanent connection with on-site waste trap

- | | |
|-------------------------|---------------------------|
| a Wastewater connection | d Sewer system waste trap |
| b Wastewater line | e Pipe clamp |
| c Sewer system | f Ventilator |



The units must be connected individually.

Do **not** bring the power connection cables together.

Requirement Polypropylene (PP) pipes and elbows

Heat resistance of pipes up to 95 °C

Maximum pipe length 1 m

1. Install wastewater line up to connection to the sewer system.
2. Secure wastewater line with pipe clamps.
3. Fill the waste trap on the unit with tap water.
4. Fill out the commissioning report.

6.7 Making the exhaust air connection

When setting up the unit under a fume hood, observe the regional regulations for air conditioning systems.

ATTENTION

Risk of physical damage from fouling of the exhaust air ducts

- Do not connect the exhaust air line directly to an exhaust air system.

ATTENTION

Risk of corrosion damage from condensate

- Install the exhaust air line such that condensate cannot collect.

6.7.1 Connecting the exhaust air line

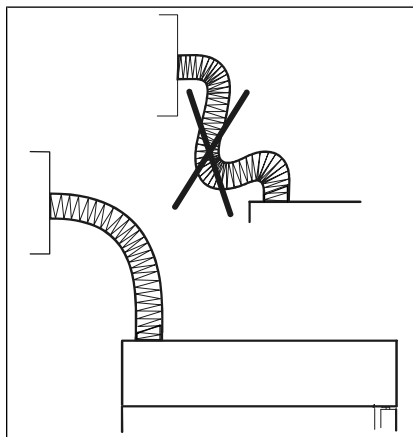


Image: Connecting the exhaust air line

Requirement Flexible aluminium exhaust air line

Maximum length of exhaust air line 2.5 m

Exhaust air line temperature-resistant to 180 °C

1. Connect exhaust air line to exhaust air connection.
2. Route exhaust air line to the exhaust hood with a 3° rise.
3. Secure end of exhaust air line 50 — 200 mm below the exhaust hood.
4. Fill out the commissioning report.

7 Checking operation



DANGER

Risk of personal injury and physical damage from unsuccessful operational check

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



DANGER

Risk of personal injury and physical damage from electric shock

- Inspection and adjustment work that can be carried out only with the housing open and the unit under power must be performed only by electrically trained technical personnel.
-



Perform this for each unit separately.

Requirement Power connection cable connected
Potential equalisation connected
Water connection established
Wastewater connection established
Unit cleaned

7.1 Checking the controls

1. Switch on the unit and start any cooking program (see Operating instructions).
 - ↳ Set the cooking zone temperature to a higher temperature than the current cooking zone 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 Commissioning report.

7.2 Checking the monitoring of the cooking zone door

1. Switch on the unit and start any cooking program (see operating instructions).
 - ↳ The unit starts to heat.
 - ↳ The fan wheel is turning.
2. Open the cooking zone door during operation.
 - ↳ The unit shuts off the heating function.
 - ↳ The fan wheel comes to a stop.
 - ↳ The monitoring of the cooking zone door is functioning.
3. Close the cooking zone door.
4. Switch off the unit.
5. Fill out the commissioning report.

7.3 Running the self-diagnosis

1. Switch on the unit.
2. Start the "CombiDoctor" self-diagnosis program (see "Checking the unit" in the operating instructions).
3. Switch off the unit.
4. Fill out the commissioning report.

8 Putting the unit into service



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

- Requirement**
- Power connection made
 - Water connection established
 - Wastewater connection established
 - Exhaust connection made (if required by the customer)
 - Operation successfully checked
 - Housing closed
1. Instruct the operator.
 2. Fill out the commissioning report.

8.1 Filling out the commissioning report

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

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

Kitchen management system		Yes	No
Has the kitchen management system been connected properly?		☐	☐

Basic control setting		Yes	No
Temperature unit set?		☐	☐
☐ °C	☐ °F	☐	☐
Have date and time been set?			

Basic control setting		Yes	No
Has software version been identified?		☐	☐
Version: _____			
Installation altitude set?		☐	☐
☐ 0 m — 999 m	☐ 1000 m — 1999 m		
☐ 2000 m — 2499 m	☐ 2500 m or higher		
80 % power set?		☐	☐
☐ 100 %	☐ 80 %		
Current voltage set?		☐	☐
Voltage: _____ V			
Audible signal volume set?		☐	☐
☐ quiet	☐ loud		
Has signal tone been selected?		☐	☐
Volume unit set?		☐	☐
☐ ml	☐ fl. oz. (Imperial)		
☐ fl. oz. (U.S.)			
Power optimisation system set?		☐	☐
☐ On	☐ Off		
Has water filter maintenance been set?		☐	☐
☐ No maintenance message	☐ Maintenance message at: _____ l		
Has network configuration been set?		☐	☐
☐ DHCP	IP address: _____		
Subnet mask: _____	Gateway: _____		
Has kitchen management system been set?		☐	☐
☐ Active	☐ Disabled		
☐ Ethernet	☐ Serial		
TCP port: _____	Unit address: _____		
Unit address: _____			

Water connection		Yes	No
Connection pressure within indicated range?		☐	☐
Connection pressure: _____ bar			
Water connection made properly?		☐	☐
Lines and connections have no leaks?		☐	☐
Water connections connected with T-piece?		☐	☐
☐ Connected only to softened tap water	☐ Connected only to tap water		

Putting the unit into service

Wastewater connection		Yes	No
Wastewater connection made in a technically correct manner?		☐	☐
☐ Waste trap in the building	☐ Ventilator		
☐ Funnel drain	☐ Floor gutter		
Connection dimension of wastewater line: _____ mm			

Exhaust air connection		Yes	No
Set up under exhaust hood?		☐	☐
Connected to exhaust air duct?		☐	☐
Exhaust air line size: _____ mm			
Exhaust air line length: _____ mm			

Function check		Yes	No
Controls are functioning?		☐	☐
Monitoring of the cooking zone door is functioning?		☐	☐
Self-diagnostic program run without faults?		☐	☐
Fault: _____			

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

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

The connection to a kitchen management system was made by:			
Company	Installer	Place, date	Signature

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

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

Exhaust air connection was provided by:			
Company	Installer	City, date	Signature

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

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





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