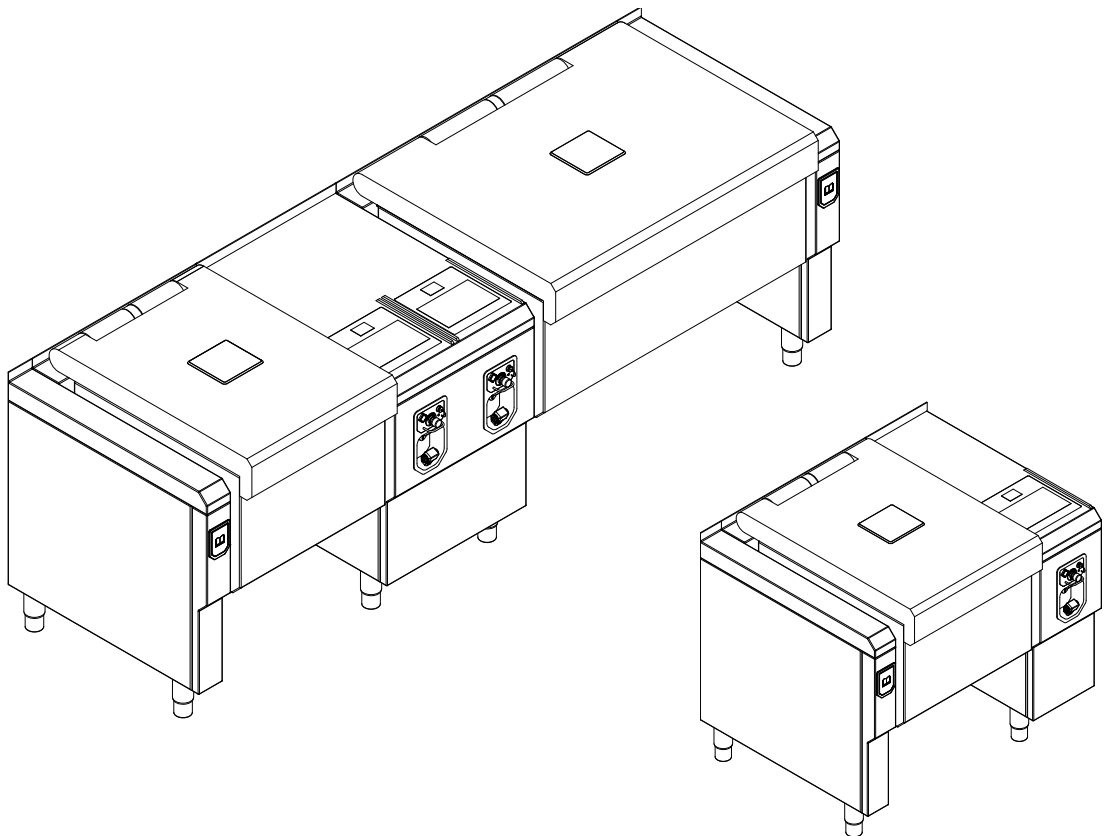


Read the operating instructions prior to
commissioning

Installation instructions

FlexiChef



Translation from the original document • 10000023289AINDE- • 21/01/2024

Unit	Energy type	Design	Model
FlexiChef	Electric	Deep frying ReadyXpress SpaceClean Easy Up & Down	FCEKMP1XXXX-----G3... FCEKMP3XXXX-----G3...
FlexiChef Team			FCEKMP2XXXX-XXXXG3...

10000023289AINBE-

en-GB

Manufacturer

MKN Maschinenfabrik Kurt Neubauer GmbH & Co. KG
Halberstädter Straße 2a
38300 Wolfenbüttel
Germany

Phone +49 5331 89-0
Fax +49 5331 89-280
Internet www.mkn.com

Copyright

All rights to text, graphics and pictures in this documentation are held by MKN Maschinenfabrik Kurt Neubauer GmbH & Co. KG. Distribution or duplication is only permitted with the prior written consent of MKN.

Copyright by MKN Maschinenfabrik Kurt Neubauer GmbH & Co. KG.

1 Introduction	7
1.1 About this manual	7
1.1.1 Explanation of signs	8
1.2 Personnel qualifications	9
1.3 Use of the unit	9
1.4 Warranty	9
2 Safety information	10
3 Description of the unit	13
3.1 Overview of the unit	13
3.2 Equipment identification via order code	14
3.3 Equipment and connection data	14
3.3.1 Suspending on the installation bridge	18
3.3.2 Basic control setting	19
4 Transporting the unit	20
4.1 Reduce drive-through width	21
4.2 Transporting the unit to the installation site	22
4.3 Unpacking the unit	23
5 Setting up the unit	24
5.1 Minimum clearances	25
5.2 Opening and closing the housing	26
5.2.1 Removing and attaching the front panel of the control arm	26
5.2.2 Removing and attaching the cover of the control arm	27
5.2.3 Removing and attaching the front panel of the side arm	29
5.2.4 Removing and attaching the side arm cover	30
5.2.5 Removing and attaching the side wall of the side arm	31
5.2.6 Opening and closing the lid	32
5.3 Placing the unit on the equipment legs	34
5.4 Setting up the unit on the base	35
5.4.1 Setting up the unit on the U-base	36
5.4.2 Place the unit on a solid base	37
5.5 Suspending the unit	38
5.5.1 Suspending the unit from an installation bridge	39
5.6 Remove pallet	40
5.7 Removing the transport securing device	41
5.8 Aligning the unit	41
5.8.1 Aligning the unit with equipment legs	42
5.8.2 Aligning the unit on the base	43
5.8.3 Aligning the suspended unit	44
5.9 Attaching the cover plate	45
5.10 Setting up FlexiChef Team	46
5.10.1 Aligning single units with each other	46

5.10.2 Connecting single units to each other	47
5.10.3 Connecting the control unit	48
5.10.4 Front panel Connecting the control arm	49
5.11 Connecting the unit	51
5.12 Fastening the unit to the floor	52
5.12.1 Securing the unit against sliding	52
6 Connecting the unit	54
6.1 Removing and attaching the cover plate for the service connections	54
6.1.1 Removing the cover plate	54
6.1.2 Attaching the cover plate	54
6.2 Making the electrical connection	55
6.2.1 Description of the power connection	57
6.2.2 Connecting the power connection cable	57
6.2.3 Connecting the socket	59
6.2.4 Connect energy optimization system	60
6.2.5 Connecting to the potential equalisation circuit	62
6.2.6 Connect fire protection interface	62
6.3 Connecting the kitchen management system	64
6.4 Performing basic control setting	65
6.4.1 Changing the basic control setting	65
6.5 Making the water connection	66
6.5.1 Connecting the tap water connection line	68
6.6 Making the wastewater connection	69
6.6.1 Connecting the wastewater line to a permanent connection	70
6.6.2 Connecting the wastewater connection to a waste trap in the building ...	71
6.6.3 Connecting a wastewater line with an unobstructed discharge	72
7 Fine alignment of the unit	73
7.1 Align pan horizontally	73
7.2 Aligning the pan surface	74
7.3 Check and align pan stop	75
7.4 Check the stability of the unit legs	75
7.5 Check and align lid lock	76
7.5.1 Check diagonal and correct alignment	76
8 Checking operation	77
8.1 Checking the pan position	77
8.2 Checking the lid	78
8.3 Checking the water inlet	78
8.4 Checking the controls	78
8.5 Checking the wastewater connection	79
8.5.1 Checking the wastewater line to a permanent connection	79
8.5.2 Checking a wastewater line with an unobstructed discharge	79

9 Putting the unit into service	80
9.1 Nameplate	80
9.2 Filling out the Commissioning report	81



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 Personnel qualifications

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.

The use of the unit is prohibited in the following countries:

- USA
- Canada

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

2 Safety information

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

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

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

Ensuring conformity with standards

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

Improper installation

Risk of property damage and personal injury from improper installation

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

Transportation and storage

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

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

Fire prevention

Risk of fire from combustible surfaces

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

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

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

Setup Risk of property damage and personal injury from improper setup

- Ensure that the unit is stable when set up and aligned.
- Wear safety shoes and protective gloves.
- Ensure that the ground or wall has adequate load-bearing capacity.

Electrical connection Risk of fire from improper connection

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

Risk of electric shock from live components.

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

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

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

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

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

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

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

3 Description of the unit

3.1 Overview of the unit

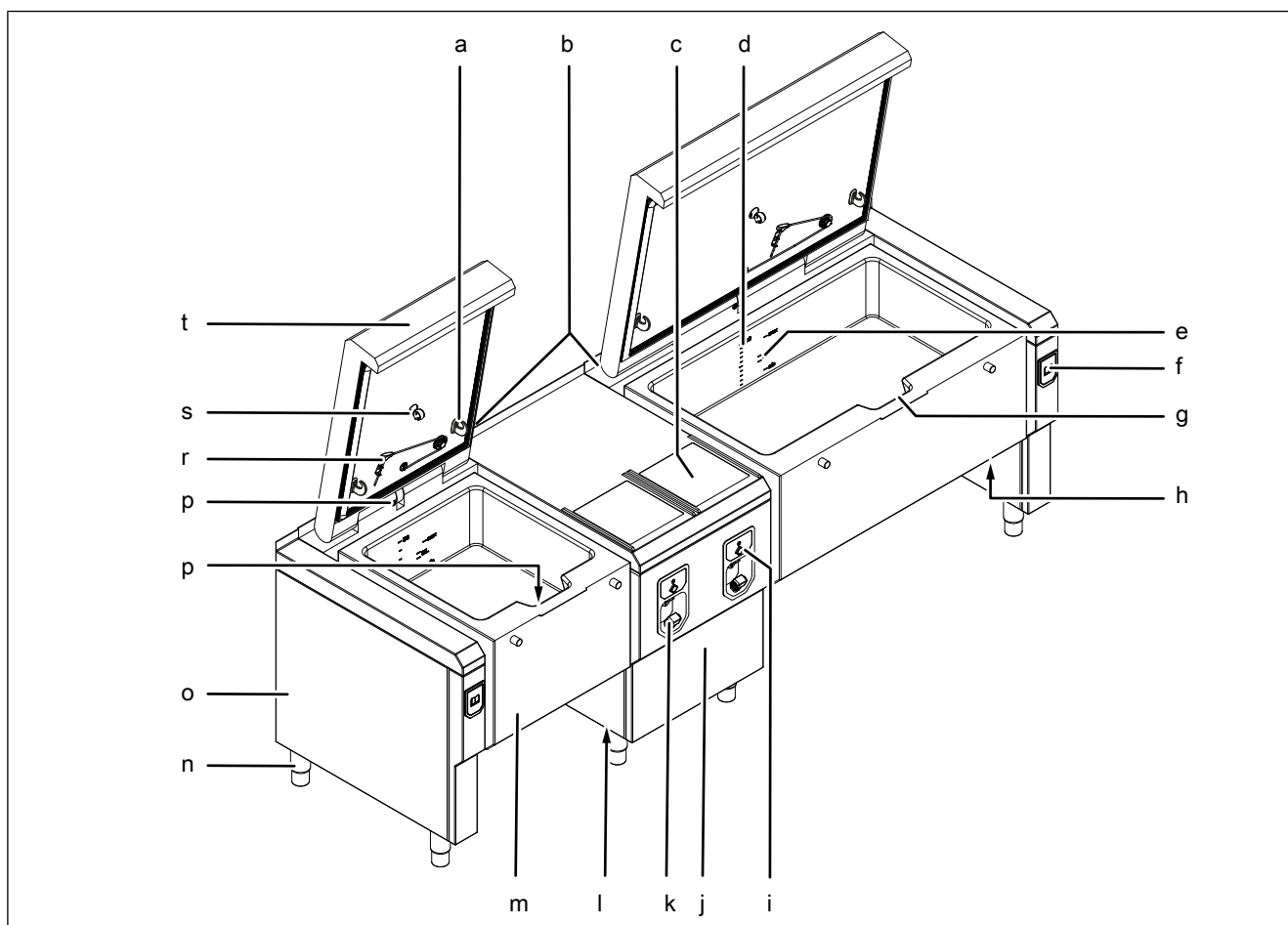


Image: Unit with ReadyXpress, deep-frying, Easy Up & Down and SpaceClean

- | | | | |
|---|--|---|--------------------------|
| a | Holder for basket suspension system size 1-3 | k | Hand shower (optional) |
| b | Filler neck Decalcification | l | Nameplate with QR code |
| c | Control unit | m | Pan |
| d | Fill level mark | n | Equipment leg |
| e | "OIL" fill level mark | o | Side frame |
| f | Socket (optional) | p | Drain |
| g | Spout | q | Water supply |
| h | Steam outlet safety valve (optional) | r | Core temperature sensor |
| i | Control unit front panel | s | Cleaning head (optional) |
| j | Operating side frame | t | Lid |

3.2 Equipment identification via order code

The equipping of the unit can be identified from the order code. The type number with the order code is given on the nameplate.

Order code	Position	Design
FCEKMP122DR---G3xxxx	a	C = Floor-standing unit I = suspended unit
	b	1 = Single unit, operation on the right 2 = Team unit, operation in the middle 3 = Single unit, operation on the left
	c	1 = Pan size 1/1 GN 2 = Pan size 2/1 GN 3 = Pan size 3/1 GN
	d	2 = Pan depth 225 mm 3 = Pan depth 315 mm
	e	D = High-speed cooking, ReadyXpress
	f	R = Cleaning, SpaceClean
	g	G3 = FlexiChef 3.0
FCEKMP232DR-12DRG3xxxx		

3.3 Equipment and connection data

All models	
Tap water connection	
Water type	Tap water, cold
	Tap water, warm
Maximum water temperature (°C)	60
Flow rate (l/min)	> 13
Carbonate hardness CaCO ₃ for unit without SpaceClean (mmol/l (°dH))	< 2,5 (13,9) > 0,7 (3,9) *
Carbonate hardness CaCO ₃ for unit with SpaceClean (mmol/l (°dH))	< 4,4 (24,4) > 0,7 (3,9) *
Chloride Cl (mg/l)	< 100
Iron Fe (mg/l)	< 0.2
Connection pressure (kPa (bar))	200 (2) — 600 (6)
Connection size (")	G 3/4

All models	
Operating environment	
Temperature (° C)	5 — 40
Relative humidity (%) non-condensing	95
Data interfaces	
USB port	USB 1.0 only for USB flash drives max. 32 GB
Kitchen management system HACCP (-X4)	RJ45 network cable (CAT5)
Power optimisation system (-A100:X4)	
Connection terminal (mm ²)	2,5
Maximum load Connection Output signal a and b (corresponds to potential L1)	250 V / 150 mA
Maximum load Connection Input Signal c	250 V / 250 mA
Floating contact (-A100:X5)	
Maximum load Connection Machine On	250 V / 5 A
External signaling (-A100:X6)	
Maximum load connection	250 V / 5 A
Fire protection interface (-A101) via external signal	
External enable control signal -A101:X3:2 / -A101:X3:3 (External fuse protection required)	230 V AC / 50 Hz / max. 500 mAT
Passed	230 V AC
Lock	0 V AC
Fire protection interface (-A101) via floating contact	
External release floating contact	230 V AC / 50 Hz / 3.15 A
Socket (-X7)	
Separate supply connection terminal (mm ²)	2,5
Connection	
Wastewater connection	
Wastewater type	Dirty water, maximum 95 °C
Line length	HAT pipe DN 50** at < 3 m with a drop of at least 8 % or 4°
Line length	HAT pipe DN 70** at > 3 m with a drop of at least 4 % or 2°
Maximum flow rate with permanent connection (l/min)	50
Maximum flow rate with floor channel (l/min)	70
* For operation on reverse osmosis system	
** Marine version in stainless steel	

Description of the unit

FlexiChef

Model	FCEKMP...				
Size	X12XX...	X22XX...	X23XX...	X32XX...	X33XX...
Dimensions					
Unit length x width x carcass height (mm)	1100 x 907 x 835	1300 x 907 x 835		1600 x 907 x 835	
Pan size (mm)	225	225	315	225	315
Weight					
Standard (kg)	---	250	255	305	310
Unit with ReadyXpress (kg)	240	275	280	335	340
Unit with SpaceClean (kg)	---	300	305	360	365
Unit with ReadyXpress and SpaceClean (kg)	290	320	330	385	390
Floor area load					
maximum surface load of unit on equipment legs (N/cm²)	34	43		53	
maximum surface load unit on base (N/cm²)	68	86		106	
Content					
Maximum fill quantity, pan (l)	50	75	100	100	150
maximum fill quantity of pan ReadyXpress (l)	35	60	85	85	130
Maximum fill quantity, deep-frying oil (l)	25	35	35	49	49
Emissions					
Noise level (db (A))	< 70				
Heat output (operation as boiling kettle and cooking appliance)					
MaxPower, latent / sensible (W)	2940 / 515	4480 / 784		6800 / 1190	
FlexPower, latent / sensible (W)	2620 / 459	3440 / 602		5240 / 917	
Heat output (operation as pressure cooking kettle)					
MaxPower, latent / sensible (W)	147 / 588	224 / 896		340 / 1360	
FlexPower, latent / sensible (W)	131 / 524	172 / 688		262 / 1048	
Heat output (operation as tiltable frying pan)					
MaxPower, latent / sensible (W)	5880 / 6615	8960 / 10080		13600 / 15300	
FlexPower, latent / sensible (W)	5240 / 5895	6880 / 7740		10480 / 11790	
Heat output (operation as deep-fat fryer)					
MaxPower, latent / sensible (W)	10290 / 1323	15680 / 2016		23800 / 3060	
FlexPower, latent / sensible (W)	9170 / 1179	12040 / 1548		18340 / 2358	
The sensible and latent heat amounts are determined in Germany on the basis of VDI 2052 at a connection voltage of 400 V. Regulations applying in other regions may vary from this.					

10000023289AINBE-



Model	FCEKMP...				
Size	X12XX...	X22XX...	X23XX...	X32XX...	X33XX...
Power connection					
Protection class	IPX6				
Protection class for unit with socket	IPX4				
Type of connection	3PE / AC 50/60 Hz, 3NPE / AC 50/60 Hz				
Connection terminal (mm ²)	50				
Voltage (V)	380				
FlexPower connected load (kW)	12.0	15.6		23.6	
FlexPower fuse (A)	3 x 25	3 x 32		3 x 50	
MaxPower connected load (kW)	13.3	20.3		30.7	
MaxPower fuse (A)	3 x 35	3 x 50		3 x 63	
Voltage (V)	400				
FlexPower connected load (kW)	13.1	17.2		26.2	
FlexPower fuse (A)	3 x 25	3 x 32		3 x 50	
MaxPower connected load (kW)	14.7	22.4		34	
MaxPower fuse (A)	3 x 35	3 x 50		3 x 63	
Voltage (V)	415				
FlexPower connected load (kW)	13.9	18.6		28.2	
FlexPower fuse (A)	3 x 25	3 x 32		3 x 50	
MaxPower connected load (kW)	15.8	24.2		36.7	
MaxPower fuse (A)	3 x 35	3 x 50		3 x 63	
Voltage (V)	440				
FlexPower connected load (kW)	12.3	17		26	
FlexPower fuse (A)	3 x 25	3 x 35		3 x 40	
MaxPower connected load (kW)	16.8	23		35	
MaxPower fuse (A)	3 x 35	3 x 40		3 x 63	
If both units of a Team unit are used at the same time, the values given in the individual columns are added together.					
FlexPower = Output-reduced					

Socket connection data

Socket	Type F	Type G	Type J	Type E
Country (for example)	Germany / EU	Great Britain	Switzerland	France
Separate supply connection terminal (mm ²)	2,5 mm ²			
Type of connection	1NPE			
Voltage (V)	250			
Fuse (A)	16	13	10	16

Description of the unit

Pressure relief device

All models with high-speed cooking			
Safety function	Connection (")	Response pressure (kPa (bar))	Position
Pressure relief valve for cooking zone	G 3/4	Maximum 49 (0,5)	Rear side arm, top

3.3.1 Suspending on the installation bridge

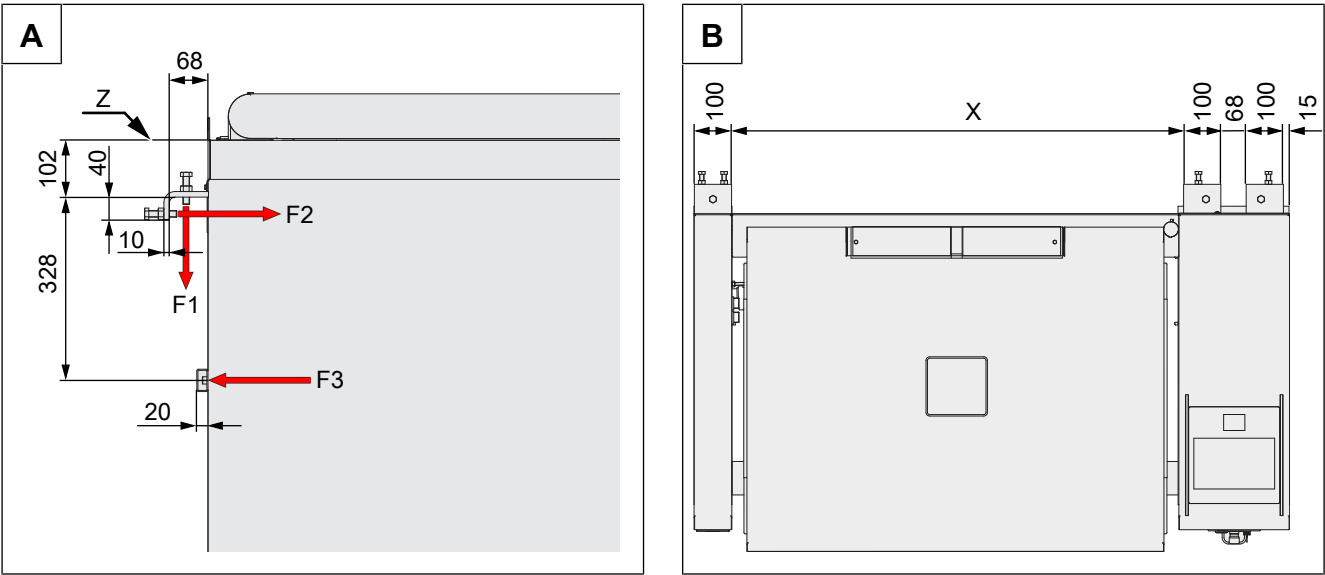


Image: A: Side view; B: Top view

Z Top edge of cover

Load points bridge suspension

Unit size	Force F1 (N) per unit side	Force F2 (N) per unit side	Force F3 (N) per unit side	maximum surface load (N/cm²)	Dimension X (mm)
1	1670	2300	2300	1415	715
2	2110	2900	2900	1790	915
3	2650	3650	3650	2250	1215



3.3.2 Basic control setting

Basic setting	Parameter s	Standard value	Adjustment range	Explanation
Date/time			yyyy - mm - dd	Year - Month - Day
			hh : mm	Hour : Minute
Setting water hardness		5	1 — 9	The water hardness must be set when the unit is first commissioned. Determine the water hardness with the relevant water authority.
Network		DHCP	Network address and DHCP	Select and set interface.
Kitchen control system		Off	Off On	Indicates whether the Kitchen management system is being used.
		1188	0 — 65535	TCP port setting
		254	0 — 254	Unit address
Settings parameters				1. Set parameters via the roller. 2. Tap the "Read" button to display the set value. 3. Specify another value via the button panel. 4. Press the "Write" button to save the new value.

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.
-

ATTENTION

Risk of physical damage from improper transport

- Only transport the unit, if the transport securing device has been fitted.
-

Prior to transporting the unit to the installation site, ensure that:

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

4.1 Reduce drive-through width

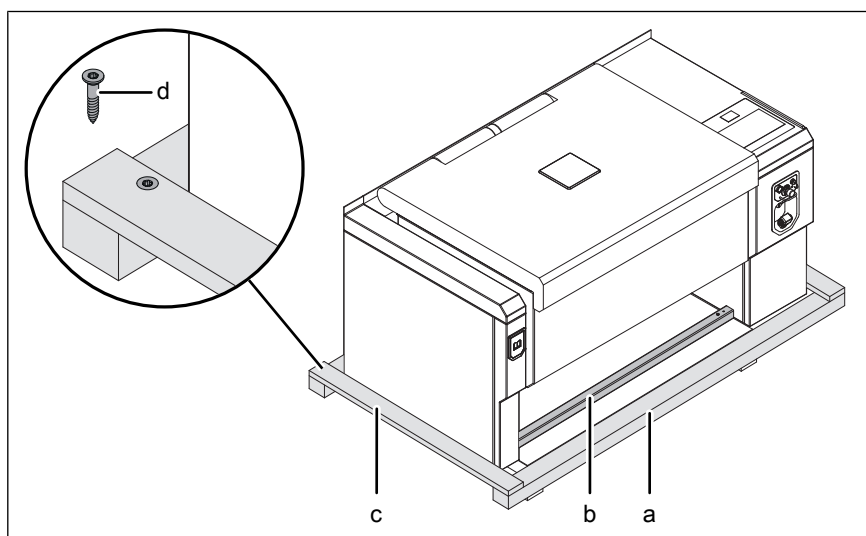


Image: Removing the transport protection

- | | |
|---------------------------------|---------------------------------|
| a Connecting board (lengthwise) | c Connecting board (horizontal) |
| b Transport securing device | d Screw |

1. Carefully cut open and remove the transport protection foil.
2. Remove the outer transport protection.
3. Loosen and remove the connecting board on the left and right.
4. Loosen and remove the squared lumber from the front and rear of the pallet.

4.2 Transporting the unit to the installation site

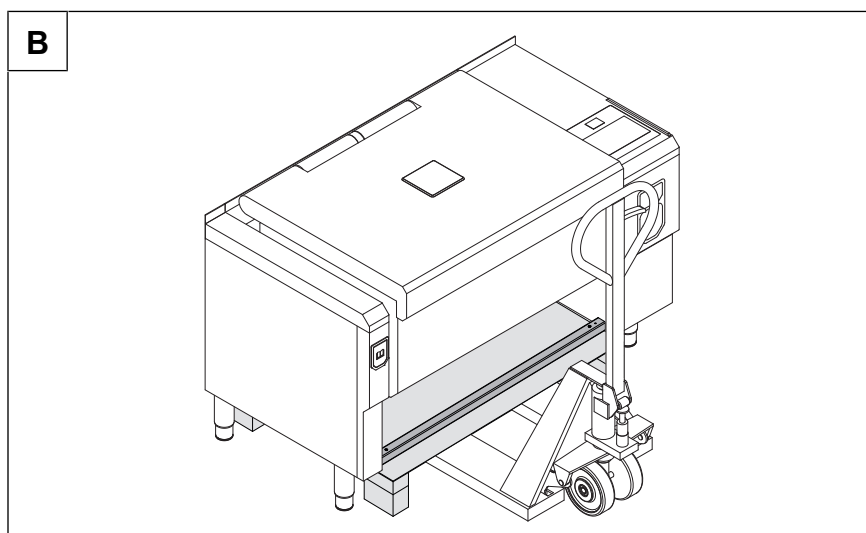
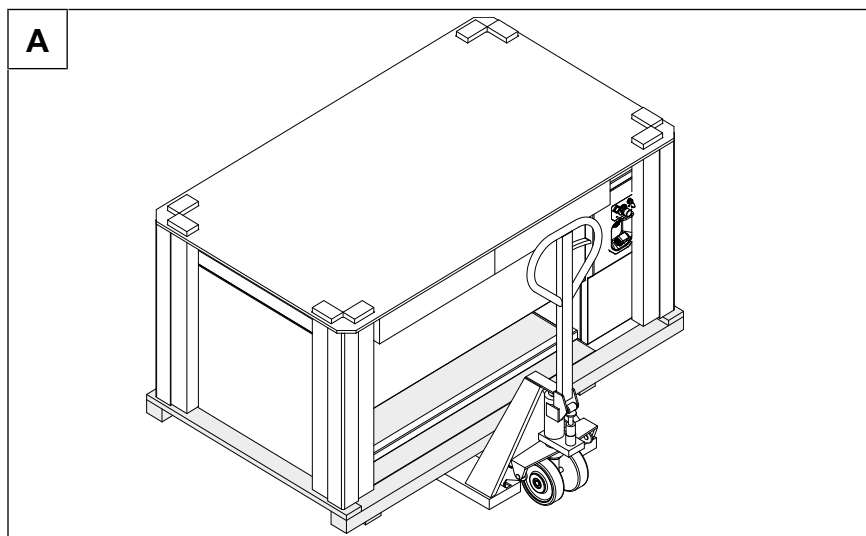


Image: A: With transport protection; B: Without transport protection

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

4.3 Unpacking the unit

**CAUTION****Risk of injury from sharp edges**

- Wear protective gloves.



When unpacking the unit, inspect it for transport damage.

Do not install damaged units or put into service.

1. Remove the packaging.
2. Pull the protective film off the unit.
3. Clean the unit (See Operating instructions).
4. Enter the information from the nameplate into the Commissioning report.
5. Enter the information from the nameplate into the Operating instructions.

5 Setting up the unit



CAUTION

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

- Observe applicable regional fire prevention regulations.
-



CAUTION

Risk of crushing from improper setup

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

Planning drawing

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

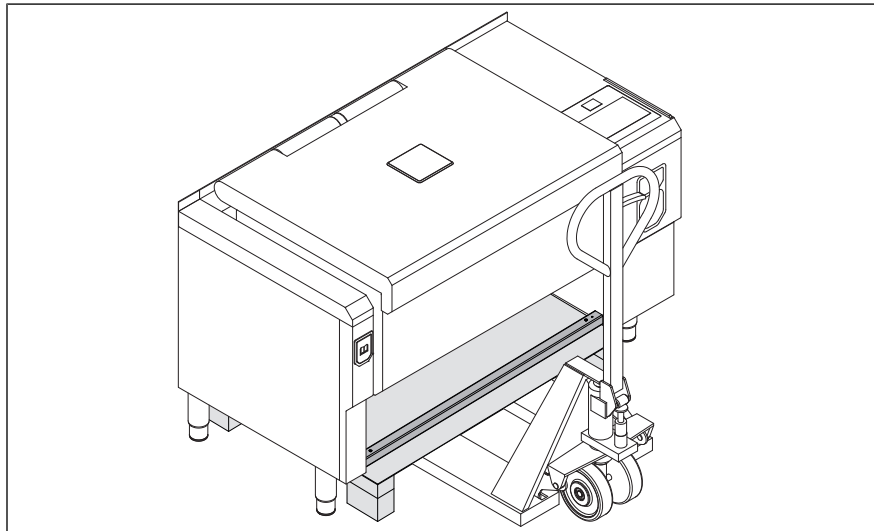


Image: Setting up the unit

5.1 Minimum clearances

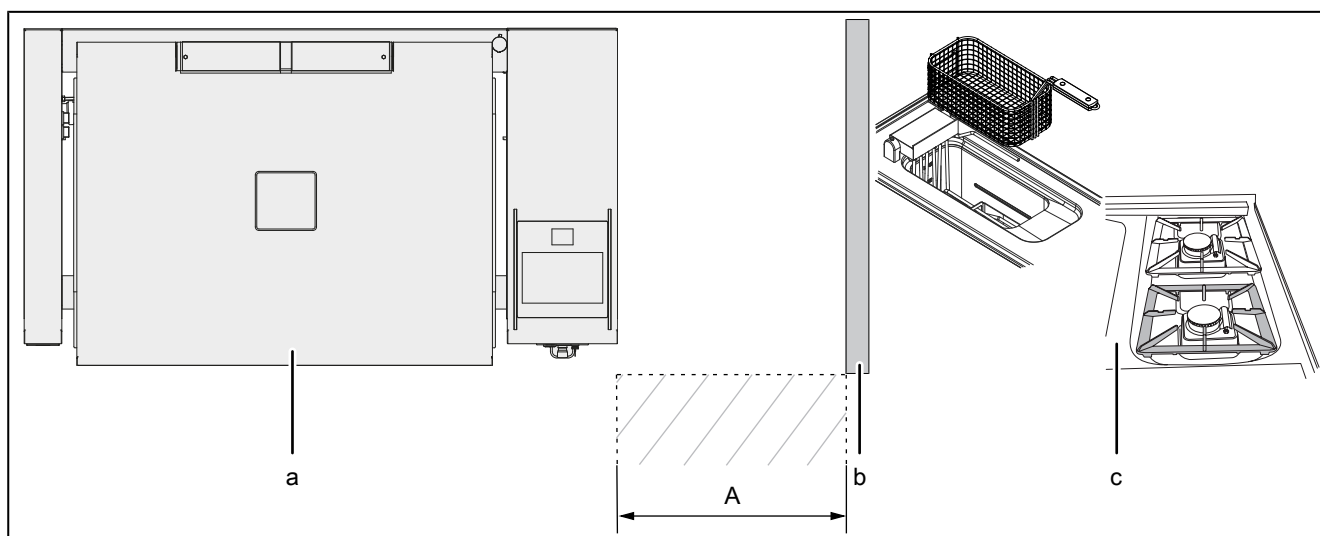


Image: Minimum clearance to walls or other units

a FlexiChef

b Wall or splash and temperature protection

A 400 mm

c Units (example)



The minimum distance of 400 mm should also be maintained for cooking units with induction technology to ensure against interference.

Keep the control panel at a minimum distance from walls or protruding units.

When emptying by tilting, this gives sufficient clearance between the operator and the food being cooked.

Depending on the type of unit shown opposite, splash or temperature protection is necessary to protect the operator.

5.2 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.

ATTENTION

Risk of physical damage from damage to the seals

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

5.2.1 Removing and attaching the front panel of the control arm

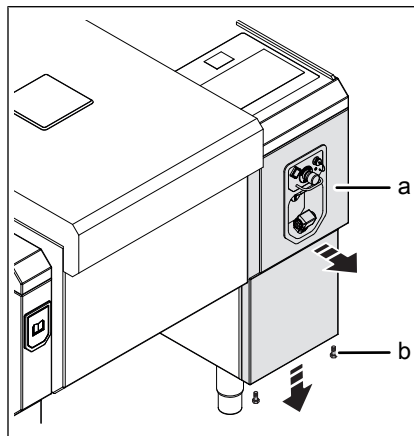


Image: Removing the front panel of the control arm

- a Cover panel
- b Screw

Removing the front panel of the control arm

Requirement Unit is disconnected

1. Undo the screws on the bottom of the front panel.
2. First pull the front panel downwards and then forwards.

3. If necessary, release the rear connections:
 - ↳ *EMERGENCY STOP* switch (optional)
 - ↳ On Off switch ("I O")
 - ↳ USB cable
 - ↳ Reed contact Reset STB
 - ↳ Protective earth
 - ↳ Removing hand shower (optional)
4. Remove the front panel.

Attaching the front panel of the control arm

Requirement Unit is disconnected
Control arm cover attached

1. If necessary, fasten the rear connections.
 - ↳ *EMERGENCY STOP* switch (optional)
 - ↳ On Off switch ("I O")
 - ↳ USB cable
 - ↳ Reed contact Reset STB
 - ↳ Protective earth
 - ↳ Attaching the hand shower (optional)
2. First locate the front panel at the top and then press on the seal at the bottom.
3. Push the front panel upwards.
4. Screw in the screws on the bottom of the front panel.

5.2.2 Removing and attaching the cover of the control arm

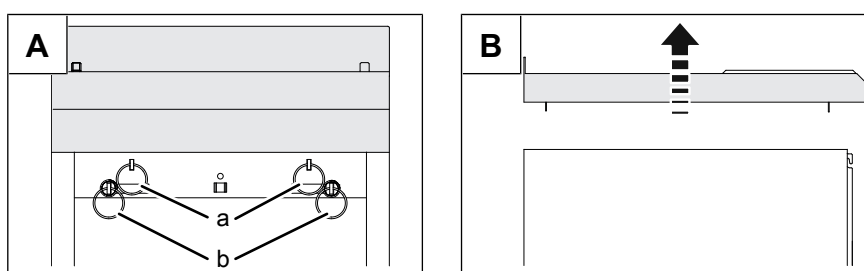


Image: Removing the cover of the control arm

a Rear lock

b Front lock

Removing the cover of the control arm

Requirement Unit is disconnected

Front panel of the control arm removed

1. Lay the anti-scratch protection on the lid.
2. Open the rear lock and fix it in position.
 - ↳ To do this, pull the lock forwards then press it downwards until it engages.
3. Open the front lock and fix it in position.
 - ↳ To do this, press the lock inwards then press it downwards until it engages.
4. Carefully lift the cover upwards.
 - ↳ Do not apply any force, so that connected lines are not damaged.
5. Lay the cover down on the lid with the sides reversed.

Attaching the cover of the control arm

Requirement Front panel of the control arm removed

1. Release the catch and close the rear lock.
 - ↳ To do this, pull the rear lock forwards then press it upwards and release it.
2. Release the catch and close the front lock.
 - ↳ To do this, press the front lock forwards then press it upwards and release it.
3. Carefully place the cover on from above until it engages.
 - ↳ Do not squash any connected lines.
 - ↳ Do not apply any force.
 - ↳ Make sure that the side wall is positioned correctly.
 - ↳ Check that the locks are closed.

5.2.3 Removing and attaching the front panel of the side arm

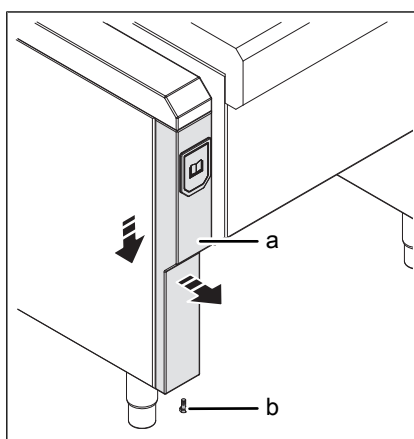


Image: Removing the side arm front panel

- a Cover panel
- b Screw

Removing the side arm front panel

Requirement Unit is disconnected

1. Unscrew the screw on the bottom of the front panel.
2. First pull the front panel downwards and then forwards.
3. Disconnect the protective conductor.
4. Remove the front panel.

Attaching the front panel of the side arm

Requirement Side arm cover attached.

1. Attach the protective conductor.
2. First locate the front panel at the top and then press on the seal at the bottom.
3. Push the front panel upwards.
4. Screw in the screw on the bottom of the front panel.

5.2.4 Removing and attaching the side arm cover

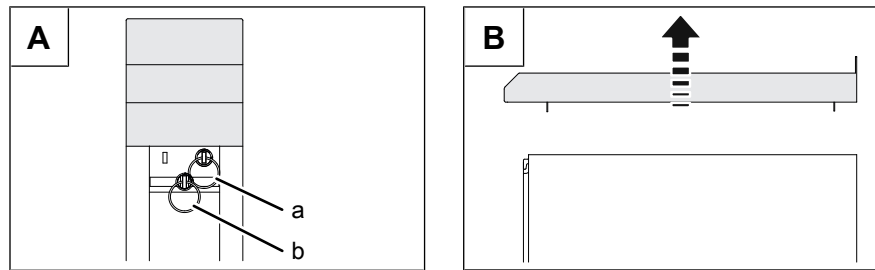


Image: Removing the side arm cover, A: unlock, B: lift up

a Rear lock

b Front lock

Removing the side arm cover

Requirement Front panel of side arm removed

1. Open the rear lock and fix it in position.
↳ To do this, pull the lock forwards then press it downwards until it engages.
2. Open the front lock and fix it in position.
↳ To do this, press the lock inwards then press it downwards until it engages.
3. Carefully lift the cover upwards.

Attaching the side arm cover

Requirement Front panel of side arm removed

1. Close the rear lock.
↳ To do this, pull the rear lock forwards then press it upwards and release it.
2. Carefully place the cover on from above until it engages.
↳ Do not apply any force.
↳ Make sure that the side wall is positioned correctly.
↳ Check that the locks are engaged.

5.2.5 Removing and attaching the side wall of the side arm

Removing the side panel

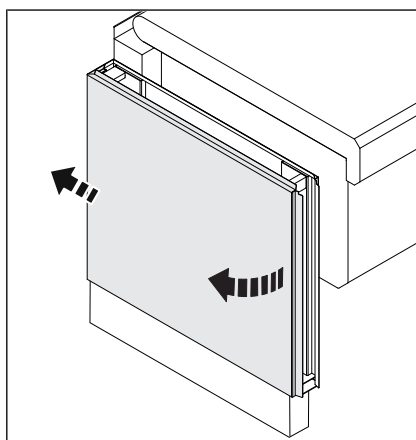


Image: Removing the side panel

Requirement Front panel of side arm removed
Side arm cover removed

1. Push the side wall slightly to the side at the front.
2. Push the side wall backwards and remove it.

Attaching the side wall

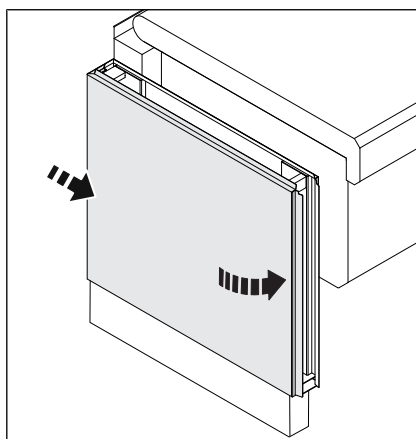


Image: Attaching the side wall

Requirement Front panel of side arm removed
Side arm cover removed

1. First insert the side wall at the rear.
↳ When doing so, open up the side wall slightly.
2. Press on the side wall at the front.

5.2.6 Opening and closing the lid



CAUTION

Risk of crushing when closing the lid

- Keep hands away from the opening and closing area of the lid when closing the lid.

ATTENTION

Physical damage due to objects slipping

The lid opens automatically during the cooking program.

- Do not place any objects on the lid.

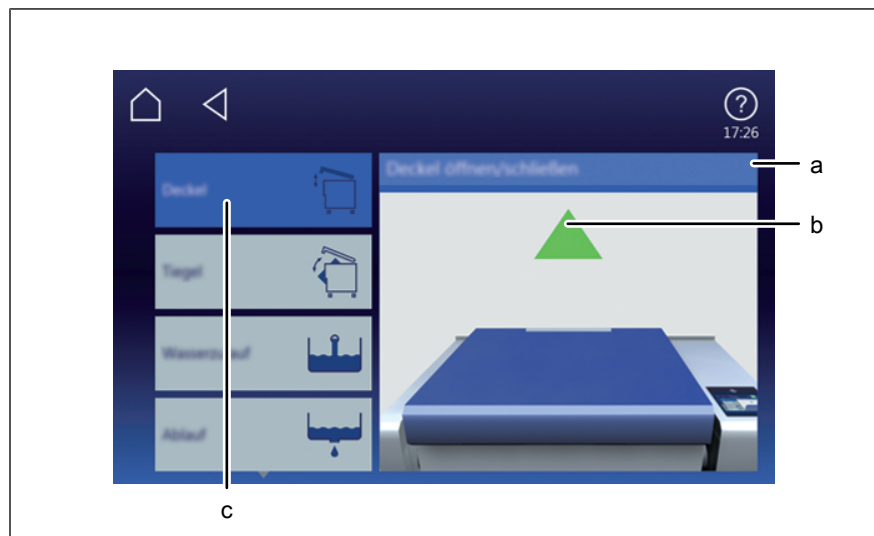


Image: Opening lid

a Actuate window

b Open symbol

c "Lid" field

Opening the lid

Requirement Pan in the operating position

Lid not fully open

Equipment function menu is displayed

1. Tap the "Lid" field.
 - ↳ Actuate window is displayed.
2. Tap the *Open* symbol.
 - ↳ The signal sounds.
 - ↳ Lid is being opened.
 - ↳ *Open* symbol disappears and the "Stop" button is displayed.



The process can be interrupted at any time by tapping the "Stop" button. The process ends automatically once the lid reaches the end position.

3. Wait for the lid to reach the end position.

↳ The lid is fully open.

Closing the lid



The unit has a crush protection feature. The lid stops closing when an object is detected between the edge of the unit and the lid.

Requirement Pan in the operating position

Lid not closed

Equipment function menu is displayed

1. Tap the "Lid" field.

↳ *Actuate* window is displayed.

2. Tap the *Close* symbol.

↳ The signal sounds.

↳ Lid is being closed.

↳ *Close* symbol disappears and the "Stop" button is displayed.



The process can be interrupted at any time by tapping the "Stop" button. The process ends automatically once the lid reaches the end position.

3. Wait for the lid to reach the end position.

↳ The lid is closed.

5.3 Placing the unit on the equipment legs



WARNING

Risk of injury from falling unit

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

ATTENTION

Physical damage from equipment legs shearing off

Equipment legs can shear off, if the unit is pushed.

- Do not push the unit.
- Raise the unit before moving it.

ATTENTION

Instability if the equipment legs are screwed out too far

Stability no longer assured

The unit may tip over

- Only set the equipment legs in the adjustment range of 150 mm - 200 mm.

The equipment legs are enclosed with the unit and must be attached before setting up the unit.

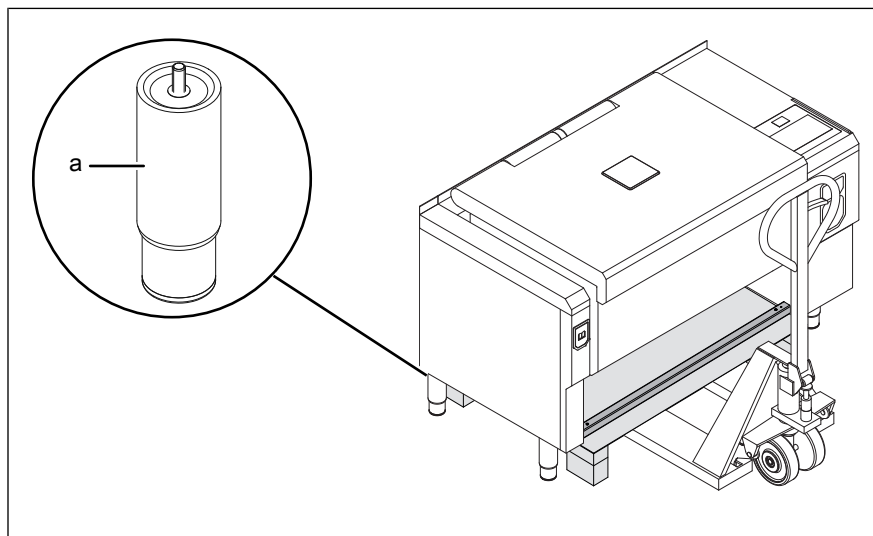


Image: Equipment leg for setting up on legs

a Equipment leg

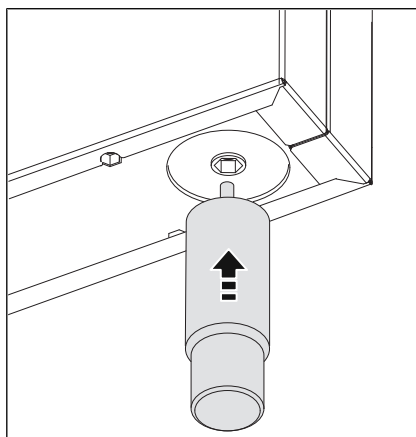


Image: Screw the equipment leg into the side arm

Requirement The floor must be capable of taking the weight of the unit
Transport securing with or without pallet is available

1. Use appropriate lifting gear to raise the unit.
2. Screw the equipment leg completely into the position provided and tighten it only hand-tight.
↳ Screw the equipment leg into the side arm.
3. Set up the unit in accordance with the planning drawing and with the transport securing device attached.
4. Remove the transport securing device (see "Removing transport securing device").

5.4 Setting up the unit on the base



WARNING

Risk of injury from falling unit

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

The equipment legs are enclosed with the unit and must be attached before setting up the unit.

Plinth recesses of up to 130 mm are possible without additional parts.

For plinth setbacks between 130 mm and 155 mm, please contact manufacturer.

Plinth recesses of 155 - 250 mm can be adapted with the available plinth package. 2 plinth packs are required per unit and a plinth cover plate is recommended.

5.4.1 Setting up the unit on the U-base

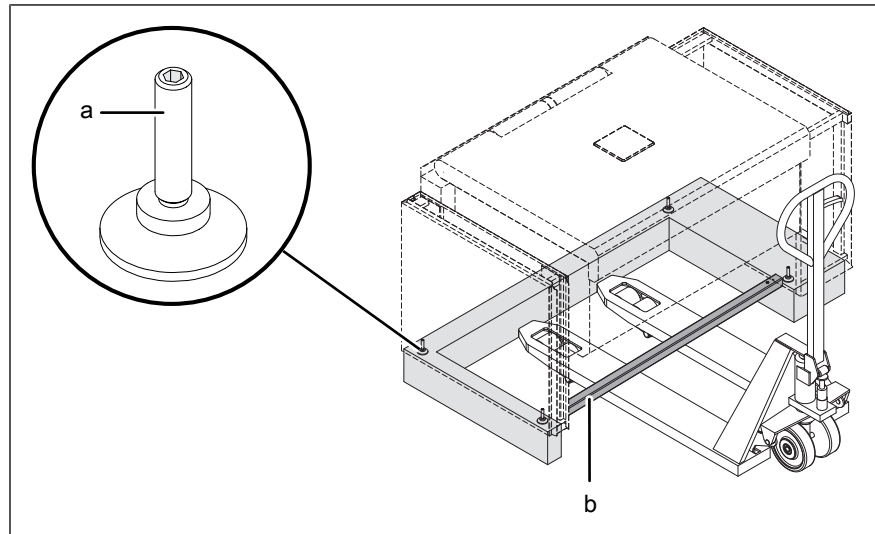


Image: Unit on U-base

a Equipment leg

b Transport securing device

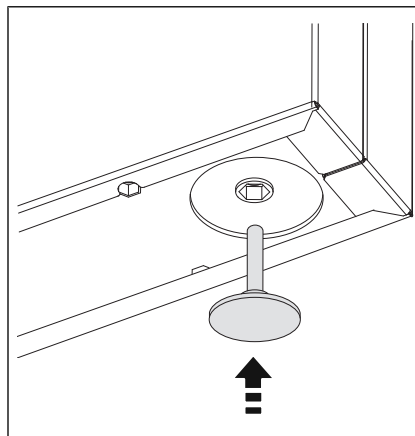


Image: Screw the equipment leg into the side arm

Requirement The floor must be capable of taking the weight of the unit

Pallet removed

The transport securing device is present

1. Use appropriate lifting gear to raise the unit.
2. Screw the equipment leg into the position provided.
↳ Screw equipment leg into side arm
3. Set up the unit in accordance with the planning drawing and with the transport securing device attached.
4. Remove the transport securing device (see "Removing transport securing device").
5. Align the unit in lengthwise and cross direction (see "Aligning the unit").

5.4.2 Place the unit on a solid base

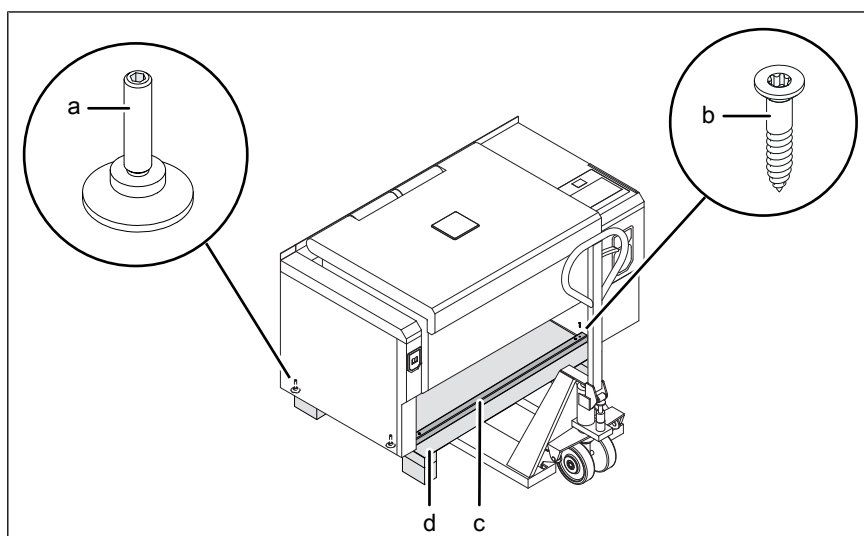


Image: Device on solid base

a Equipment leg
b Screw

c Transport securing device
d Pallet

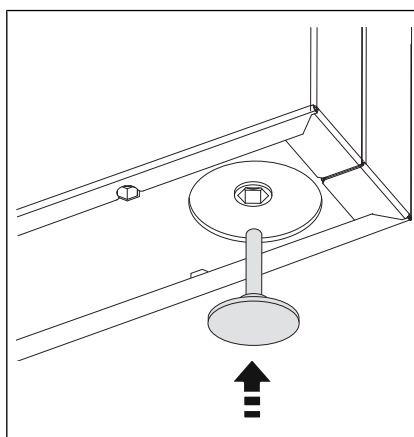


Image: Screw the equipment leg into the side arm

Requirement The floor must be capable of taking the weight of the unit
The transport securing device is present

1. Use appropriate lifting gear to raise the unit.
2. Screw the device leg completely into the intended position.
 - ↳ Screw the equipment leg into the rear nut of the side arm
3. Release the front and rear transport locks from the pallet.
 - ↳ To do this, unscrew the wood screws from the top of the transport lock.

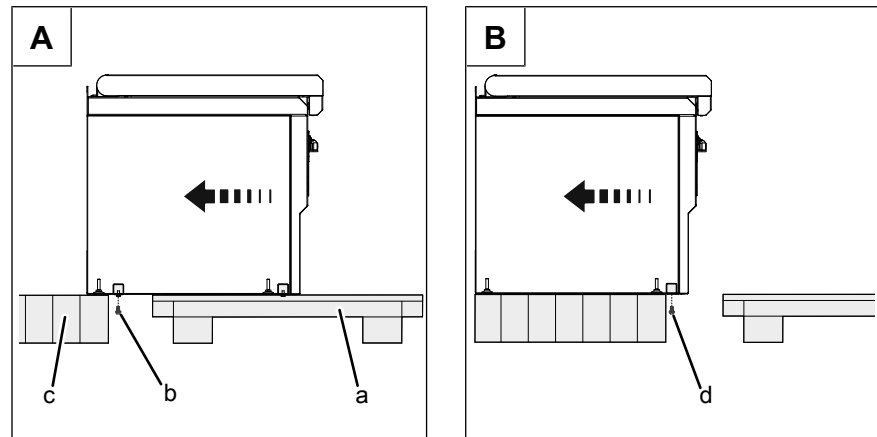


Image: A: rear transport lock; B: front transport lock

- | | |
|-----------------------|------------------------|
| a solid base | c Pallet |
| b rear transport lock | d front transport lock |

1. Place the pallet at some distance from the base.
2. Push the unit onto the base so far that the rear transport lock can be removed.
3. Unscrew the screws of the rear transport lock.
4. Remove the rear transport lock.
5. Push the unit further onto the base until the front transport lock can be removed.
6. Unscrew the screws of the front transport lock.
7. Remove the front transport lock.
8. Push the device into the installation position.
9. Align the unit in lengthwise and cross direction (see "Aligning the unit").

5.5 Suspending the unit



CAUTION

Risk of crushing from improper suspension

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

5.5.1 Suspending the unit from an installation bridge

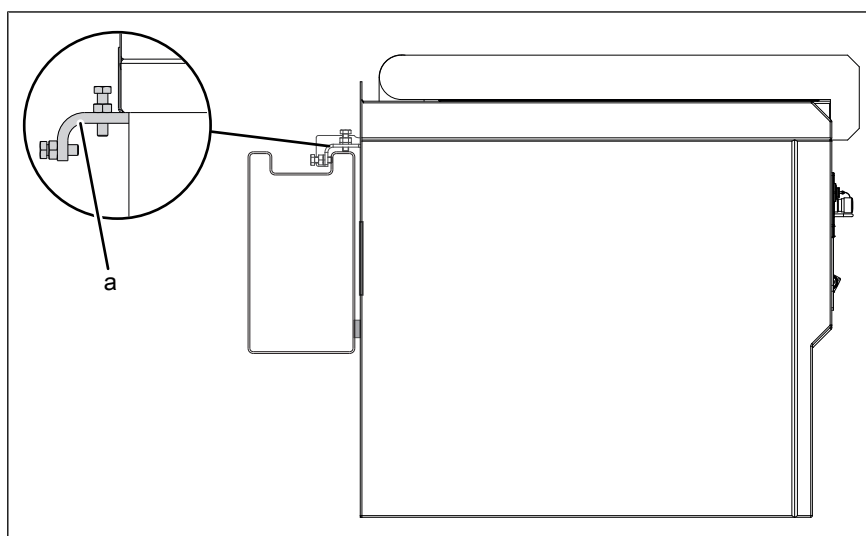


Image: Suspending the unit

a Suspension hook

Requirement Wall can be loaded with the weight of the unit (see "Unit and connection data")

Installation bridge installed

Cover plates of the installation bridge removed

1. Observe the instructions in the installation manual for the installation bridge.
2. Feed the power connection cables into the unit before suspending it.
3. Raise the unit on the pallet and move it in front of the installation bridge.
4. Pull the power connection cables into the housing.
5. Using the suspension hooks, suspend the unit on the installation bridge.
6. Suspend the unit in accordance with the planning drawing.
7. Remove the transport securing device (see "Removing transport securing device").
8. Align the unit in lengthwise and cross direction (see "Aligning the unit").
9. Attach the cover plate to the installation bridge.

5.6 Remove pallet

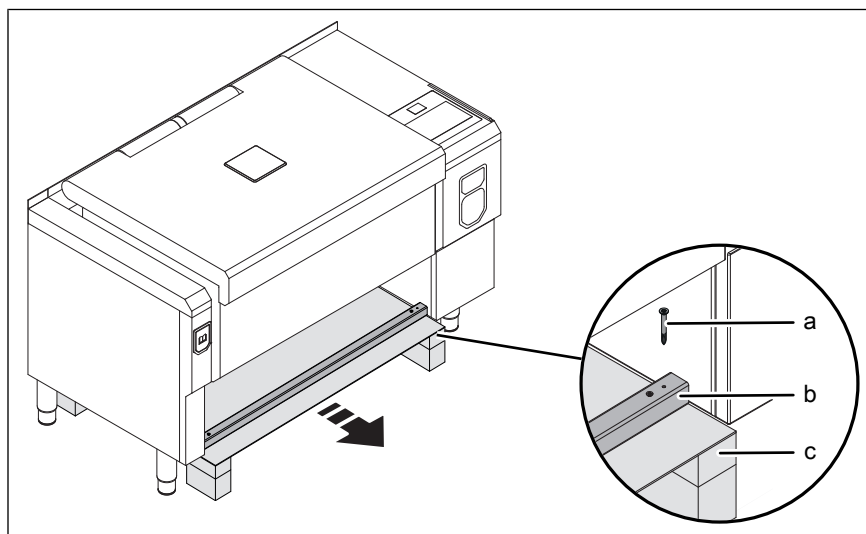


Image: Remove pallet

- a Screw
- b Transport securing device

c Pallet

Requirement Equipment leg screwed in

1. Release the front and rear transport locks from the pallet.
↳ To do this, unscrew the wood screws from the top of the transport lock.
2. Remove pallet.

5.7 Removing the transport securing device

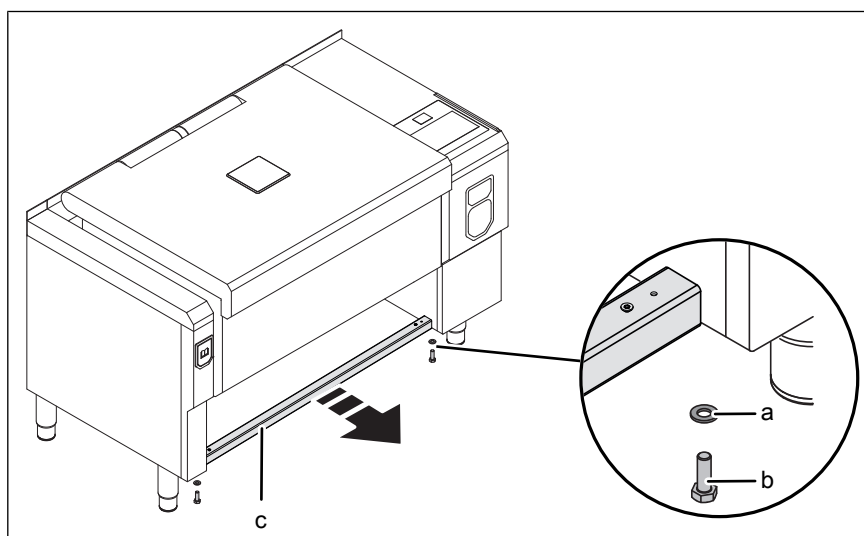


Image: Removing the transport securing device

a Washer
b Screw

c Transport securing device

Requirement Unit in the installation position
Pallet removed.

1. Unscrew the screws of the front and rear transport locks.
2. Remove the transport securing device.
3. Align the unit in lengthwise and cross direction (see "Aligning the unit").

5.8 Aligning the unit

ATTENTION

Risk of physical damage from incorrect alignment of the unit

The faultless function of the unit is not assured, if it is aligned incorrectly

- Align the unit carefully.

5.8.1 Aligning the unit with equipment legs

ATTENTION

Physical damage from equipment legs shearing off

Equipment legs can shear off, if the unit is pushed.

- Do not push the unit.
 - Raise the unit before moving it.
-

ATTENTION

Instability if the equipment legs are screwed out too far

Stability no longer assured

The unit may tip over

- Only set the equipment legs in the adjustment range of 150 mm - 200 mm.
-

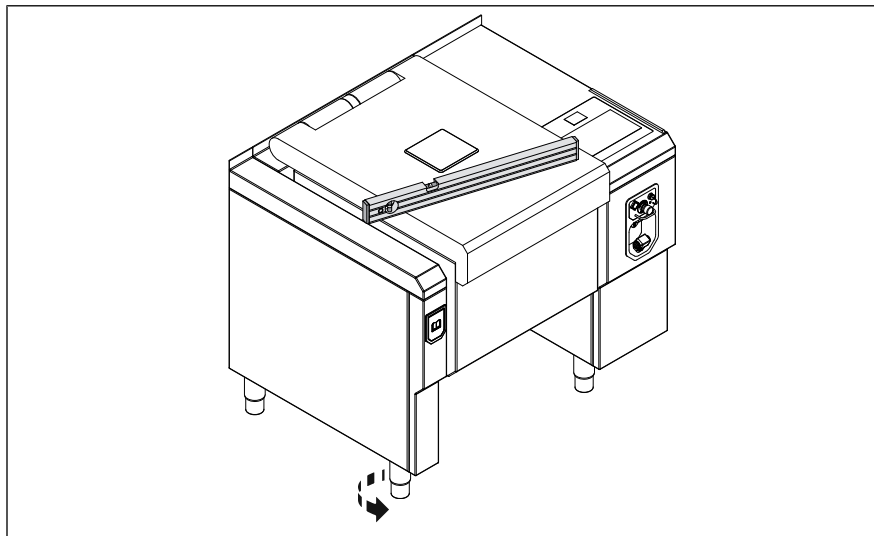


Image: Aligning the unit with equipment legs

Requirement Floor is level

1. Place a spirit level on the unit.
2. Relieve the load on the equipment legs with appropriate lifting gear.
3. Align the unit horizontally by screwing the equipment legs in or out.
 - ↳ In doing so, adjust the cabinet height correctly and adapt it to adjacent units.
4. Align side rail and operating rail horizontally.
5. Fill out the commissioning report.

5.8.2 Aligning the unit on the base



DANGER

Risk of personal injury and physical damage from electric shock

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

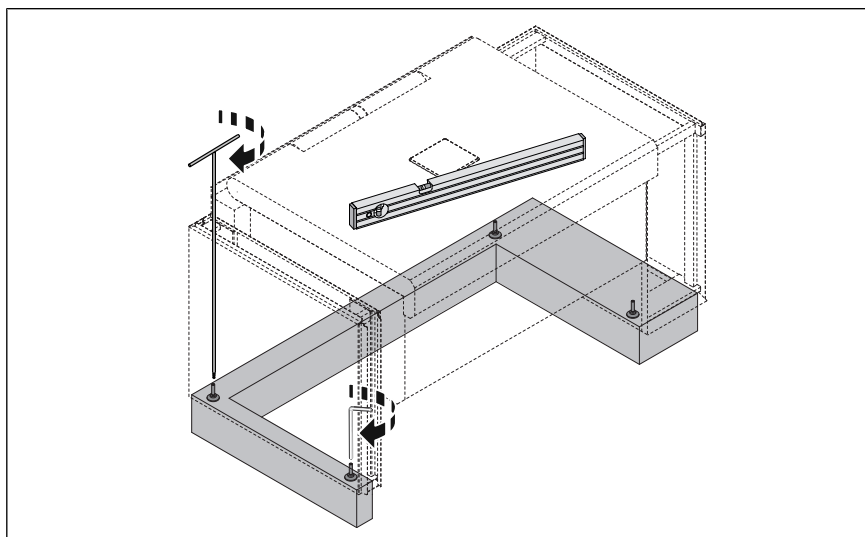


Image: Aligning the unit on the base



Relieve the load on the front equipment leg in the narrow side arm, and then set it from the front using the narrow hex key (key size 5 mm).

Requirement Floor is level

Unit is disconnected

Control arm cover removed

Side arm cover removed

Side wall of the side arm removed

1. Place a spirit level on the unit.
2. Relieve the load on the equipment legs with appropriate lifting gear.
3. Using the special spanner enclosed, align the unit horizontally by screwing the equipment legs in or out.
 - ↳ In doing so, adjust the cabinet height correctly and adapt it to adjacent units.
4. Align side rail and operating rail horizontally.
5. Close the housing.
6. Fill out the commissioning report.



If the side wall cannot be removed from the side arm, it is not possible to use the special key in the side arm.

To do this, lift the rear of the unit slightly and adjust the rear equipment leg to the required dimension from the outside.

5.8.3 Aligning the suspended unit

ATTENTION

Risk of damaging the adjusting screws from heavy load

- Relieve load on unit before aligning.

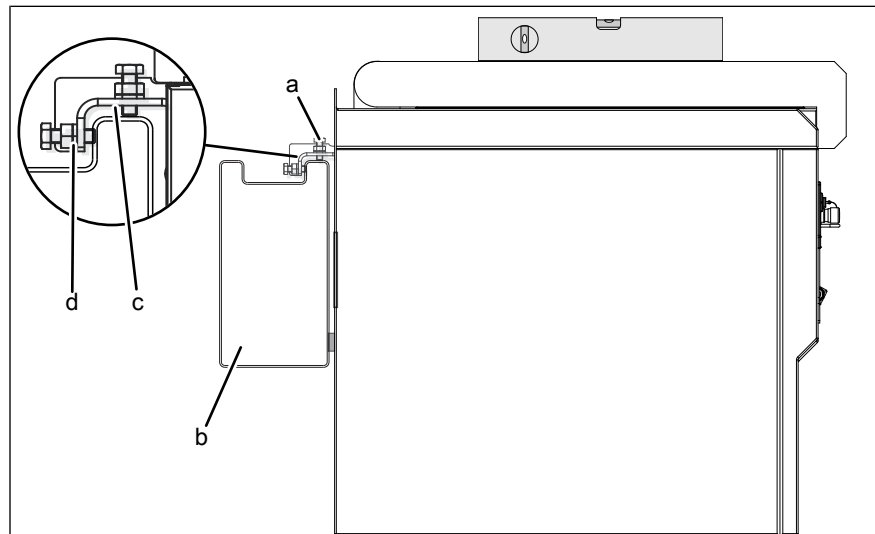


Image: Suspended unit

- | | | | |
|---|---------------------|---|------------------|
| a | Adjusting screw | c | Suspension hooks |
| b | Installation bridge | d | Nut |

Requirement Cover plates of the installation bridge removed

1. Observe the instructions in the installation manual for the installation bridge.
2. Place a spirit level in the lengthwise direction on the cover of the unit.
3. Align the unit horizontally in the lengthwise direction with the adjusting screws.
↳ In doing so, adjust the cabinet height correctly and adapt it to adjacent units.
4. Place a spirit level in the cross direction on the cover of the unit.
5. Align the unit horizontally in the cross direction with the adjusting screws.
6. Screw in the adjusting screws to the point, where all the screws are evenly loaded.
7. Fix the adjusting screws with a nut.
8. Attach the cover plates to the installation bridge.

5.9 Attaching the cover plate

A cover plate is available for easy cleaning under the unit.

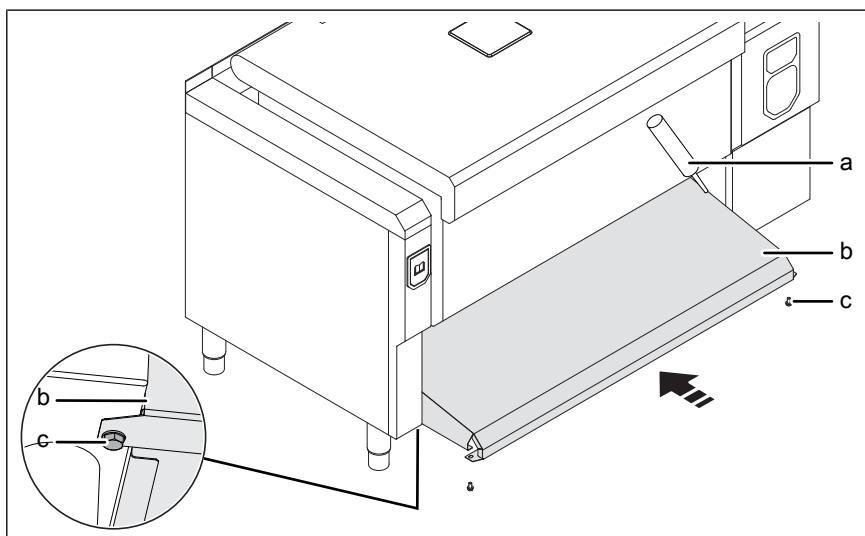


Image: Cover plate for placement of pad and legs

- a Screw
- b Cover plate
- c Sealant

1. As can be seen in the figure, push the cover plate into the groove of the rear panel as far as the stop.
2. Insert the screws and tighten them firmly.
 - ↳ If the nuts are covered by the base, do not use the screws, since the cover plate is resting on the base.
3. Check the alignment of the unit (see "Aligning the unit").
4. Seal the joint gap to the unit with sealant.
5. Before operating the unit, observe the drying time of the sealant.

5.10 Setting up FlexiChef Team

5.10.1 Aligning single units with each other

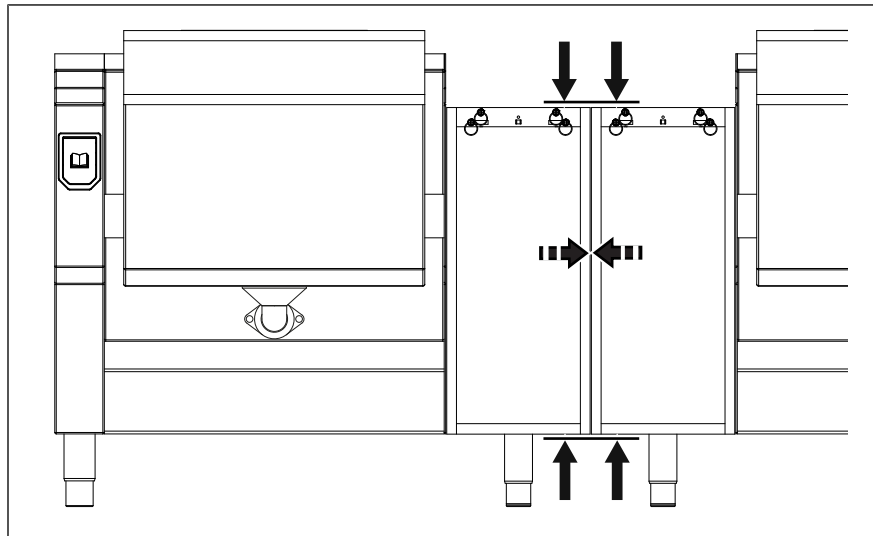


Image: Aligning single units

1. Set up the first unit at the installation site in accordance with the planning drawing (see "Setting up the unit").
2. Remove the transport securing device (see "Removing transport securing device").
3. Align the unit (see "Aligning the unit").
4. Set up the second unit flush with the first unit in accordance with the planning drawing (see "Setting up the unit").
5. Remove the transport securing device (see "Removing transport securing device").
 - ↳ Keep the screws and washers, since they are required for the connecting plates.
6. Align the unit (see "Aligning the unit").
 - ↳ Make sure that the height and depth are aligned exactly flush.
 - ↳ Make sure that the units are next to each other without any intermediate space.

5.10.2 Connecting single units to each other

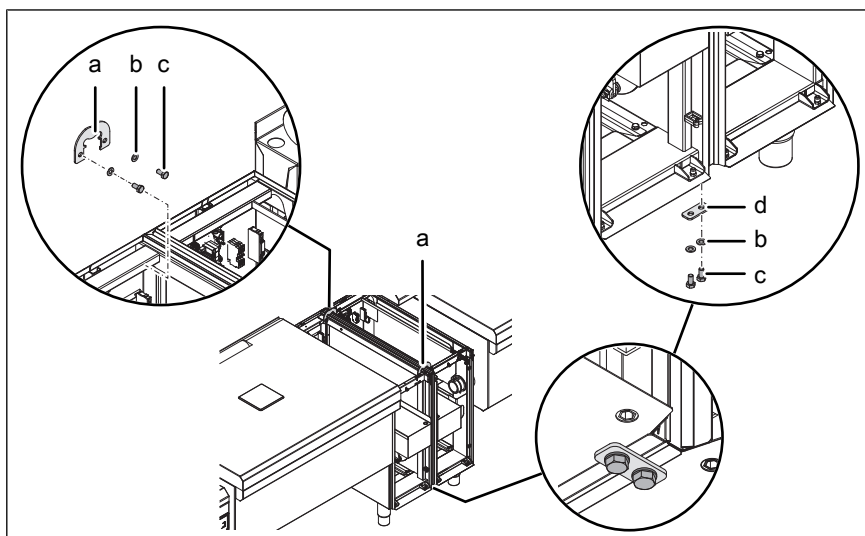


Image: Connecting single units

- | | |
|------------------------|---------------------------|
| a Top connecting plate | c Screw |
| b Washer | d Bottom connecting plate |



The lower connecting plates are not required for setting up on a base.

Requirement Single units aligned with each other

1. Attach the top connecting plates at the front and back in accordance with the drawing.
 - ↳ The connecting plates should be easy to attach. Do not apply any force.
 - ↳ If necessary, correct the alignment.
2. Fasten the upper connecting plates with the enclosed screws and washers.
3. Position the bottom connecting plates at the front and back in accordance with the drawing.
4. Fasten lower connecting plates with screws and washers.
 - ↳ Use the screws and washers from the transport securing device.
5. Fill out the commissioning report.

5.10.3 Connecting the control unit

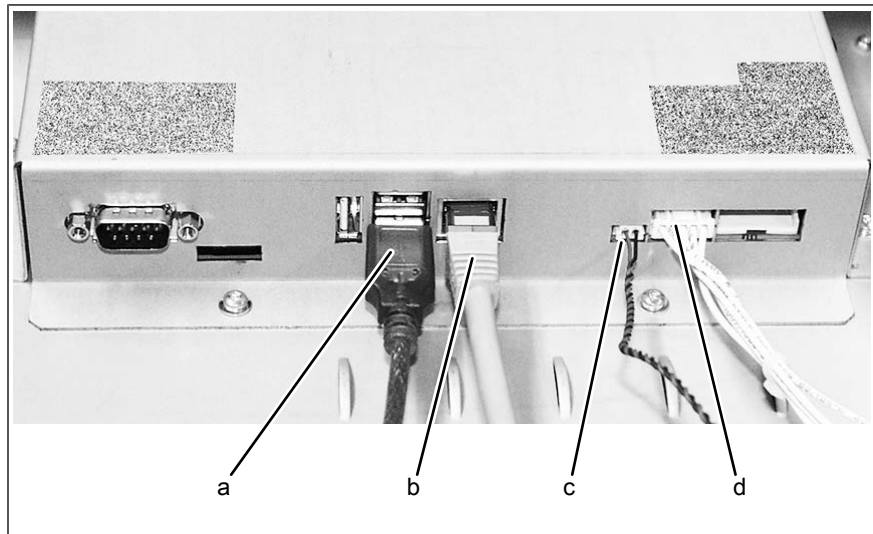


Image: Control unit

a USB
b Network

c Loudspeaker
d Control cable



The connection cables are fixed with a cable tie

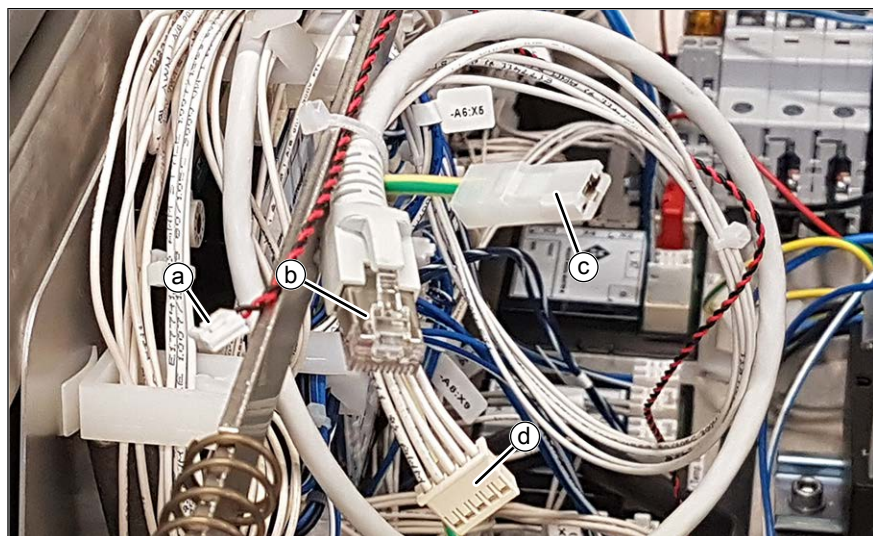


Image: Connection control unit

a Connector loudspeaker
b Connector network RJ 45

c Plug Protective conductor control unit cover
d Connector Control line

Requirement Units connected together

1. Lay the anti-scratch protection on the lid.
2. Lay the control arm cover down on the lid with the sides reversed.
↳ Do not mix up the units when connecting the control unit.

3. Insert the connection lines individually into the control unit for both units in accordance with the picture shown.
↳ The connection lines are to be fastened to the particular unit by means of a cable tie.
4. The connection lines for each unit are to be tied together with cable ties.
5. Attach the protective conductor to the control arm cover.
6. Attach the control arm cover (see "Removing and attaching the control arm cover").
7. Fill out the commissioning report.

5.10.4 Front panel Connecting the control arm



The connection cables are fixed with a cable tie

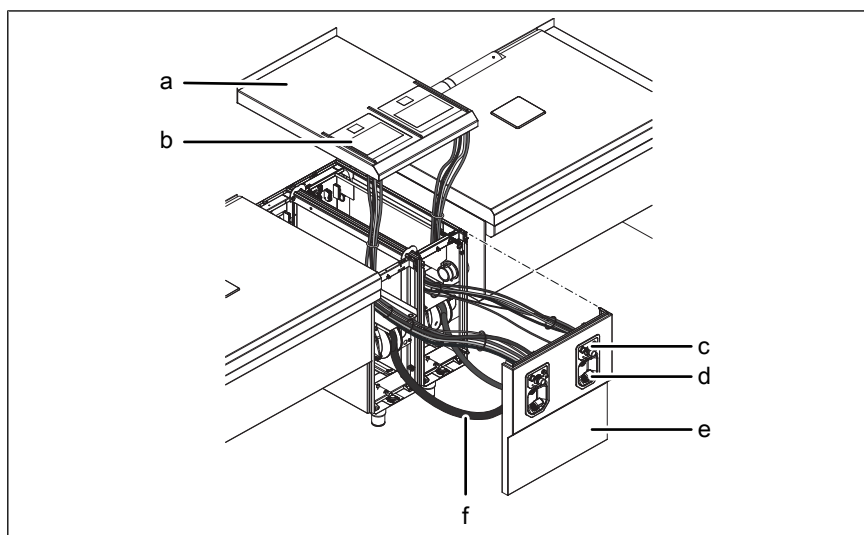


Image: Front panel Connecting the control arm

- | | |
|----------------------------|---------------------------|
| a Control arm cover | d Hand shower |
| b Control unit | e Control arm front panel |
| c Control unit front panel | f Hose (hand shower) |

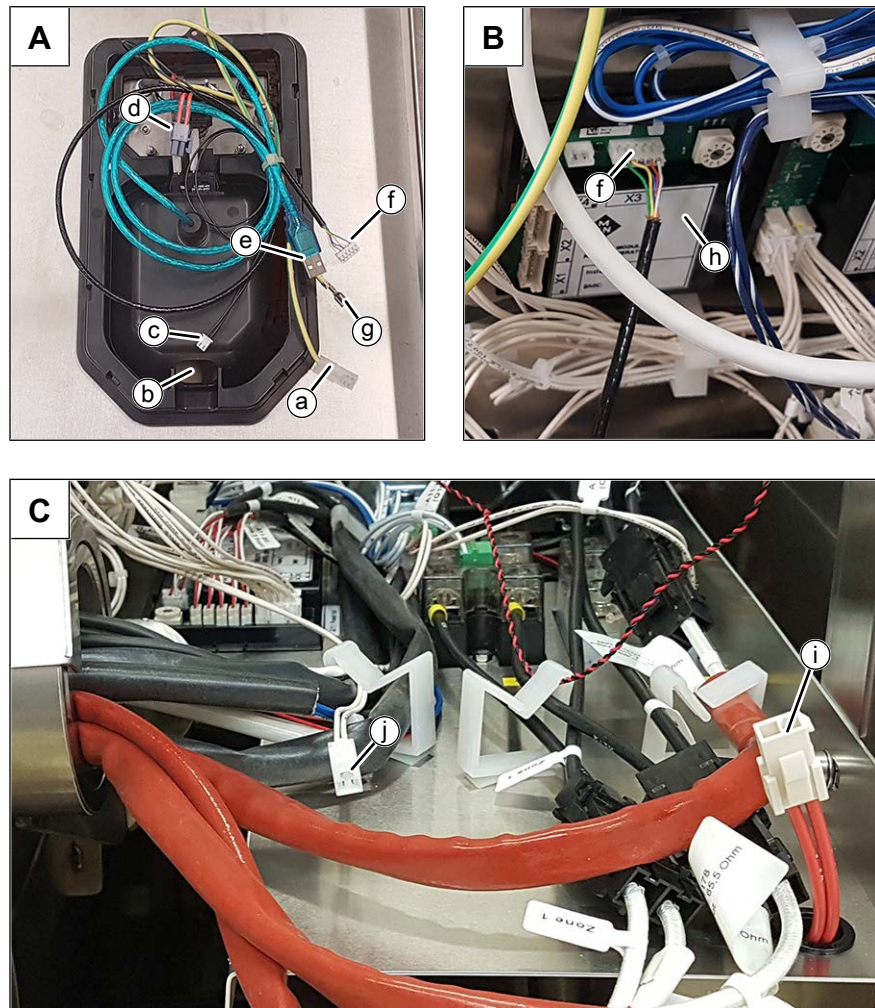


Image: A: Front panel control unit; B: Sous-vide connection; C: Appliance connection

- | | |
|--|--|
| a Protective conductor Cover control arm | f Plug sous-vide sensor |
| b Feedthrough hand shower | g Protective conductor Frame |
| c Plug Contact Reset STB | h Module Sous-vide core temperature sensor |
| d Plug Switch On Off "I O" | i Socket Switch On Off "I O" Device |
| e Connector USB | j Socket Contact Reset STB Device |

Requirement Units connected together

1. Unscrew the water hose from the hand shower.
2. Push the hose from the inside to the outside through the opening of the control unit front panel.
3. Screw the water hose tightly onto the hand shower.
4. Insert the USB connector plug into the control unit.
5. Connect the plug of the power supply for switch On Off "I O" with the socket in the device.
6. Connect plug for contact Reset STB with socket in the device.
7. Plug the sous-vide connection cable into the sous-vide core temperature sensor module on connector X3.

8. Attach the protective conductor to the control arm cover.
9. Connect the protective earth conductor to the rack.
10. Attach the control arm front panel (see "Removing and attaching the control arm front panel").
11. Fill out the commissioning report.

5.11 Connecting the unit



When installing with other devices from the same manufacturer, use end and connection profiles

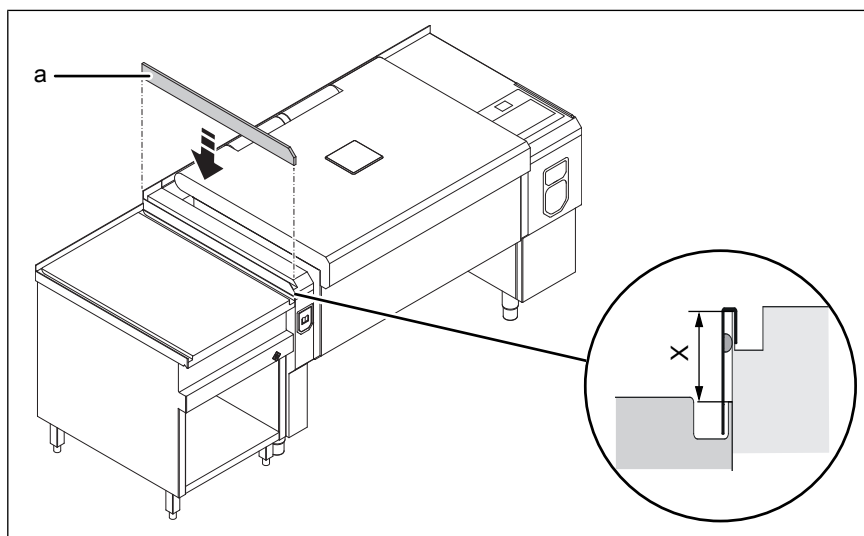


Image: Joining the unit

- a Connecting profile
- X Height difference

Requirement Cover with discharge channel available

1. Align devices with each other.
↳ Observe and maintain the height difference (50 +/- 2 mm)
2. Attach the connecting profile to the drain channel.

5.12 Fastening the unit to the floor

5.12.1 Securing the unit against sliding

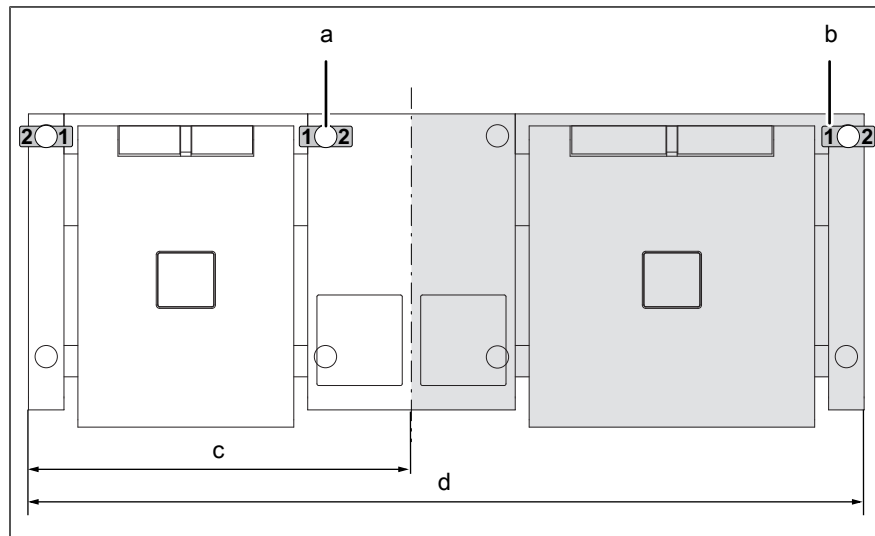


Image: Arrangement of the base plates (view from above)

- | | |
|-----------------|------------------|
| a Equipment leg | c FlexiChef |
| b Floor plate | d FlexiChef Team |

A special fastening set with floor plates for securing the unit against sliding is available from the manufacturer as an accessory.

The fastening kit contains two bottom plates and all components required to bolt or bond to the bottom.

The unit is fastened by means of two bottom plates, as indicated in the drawing.

It suffices to secure the two outer equipment legs.

Floor without steam barrier

In the case of floors without a steam barrier, the floor plates are screwed to the floor with the enclosed screws.

Requirement The floor must be capable of taking the weight of the unit
The floor must be clean and suitable for the type of fastening
The unit is set up and levelled in accordance with the planning drawing

1. Align the bottom plates in position 1-1 or 2-2 on the equipment leg as shown in the drawing and mark the fastening holes on the bottom.
2. Mark the position of all equipment legs on the floor.
3. Using suitable lifting equipment, move the unit away until the drill holes can be made in the floor.
4. Drill the holes in the diameter of the dowel sufficiently deep into the floor.
5. Carefully move the unit to the installation position.
6. Using the anchors and fastening screws provided, screw the bottom plates to the bottom.
7. Ensure that, after the fastening screws have been inserted, the floor seal is restored again.
8. Fill out the commissioning report.

Floor with steam barrier

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

Requirement The floor must be capable of taking the weight of the unit
The floor must be clean and suitable for the type of fastening
The unit is set up and levelled in accordance with the planning drawing

1. Align the bottom plates in position 1-1 or 2-2 on the equipment leg as shown in the drawing and mark the bottom.
2. Fasten the base plates to the floor with the enclosed adhesive.
 - ↳ Note the manufacturer's instructions for the adhesive.
 - ↳ Apply the adhesive in accordance with the manufacturer's instructions.
 - ↳ Observe the drying time in accordance with the manufacturer's instructions.
3. Fill out the commissioning report.

6 Connecting the unit

6.1 Removing and attaching the cover plate for the service connections

6.1.1 Removing the cover plate

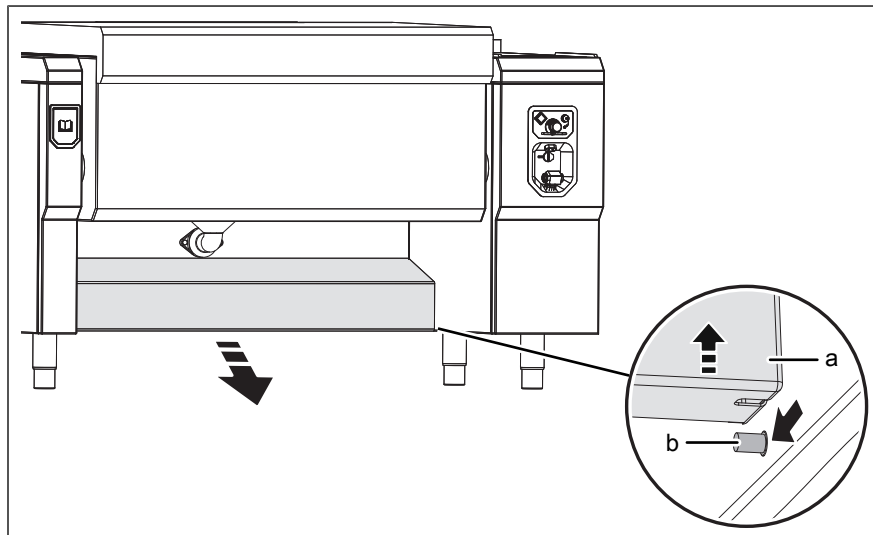


Image: Removing the cover plate

a Cover plate

b Bolt

1. Press the front edge of the cover plate towards the rear to unlock it, while at the same time lifting it from the side bolts.
2. Pull the cover plate out of the groove in the rear panel.

6.1.2 Attaching the cover plate

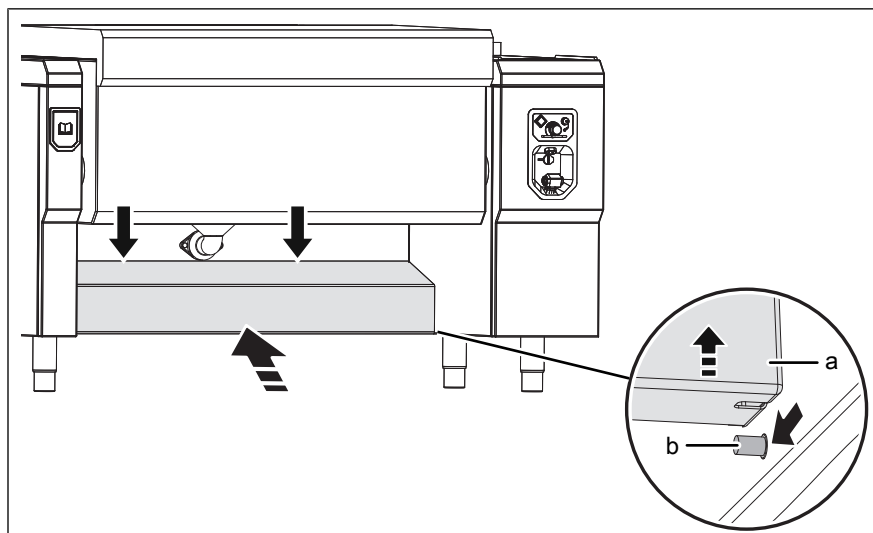


Image: Attaching the cover plate

a Cover plate

b Bolt

1. As can be seen in the figure, push the cover plate into the groove of the rear panel as far as the stop.

2. Press the front edge of the cover plate towards the rear, while at the same time attaching it to the side bolts.

6.2 Making the electrical connection

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.

Professional qualification for electrical installation work

Electrical installation work on the electrical system and the unit may only be carried out by an electrician from the specialist company assigned to the work.

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).

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).
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.

Insulation monitoring

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

Fault current device

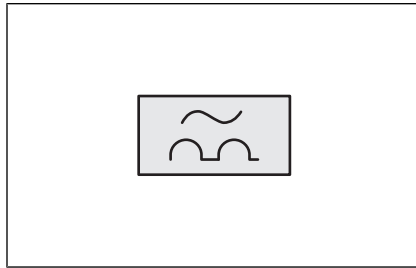


Image: RCD switch type A, circuit symbol

The unit can be connected to a fault current device.

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

A fault current protective device of 300 mA is to be provided for this unit.

Potential equalisation

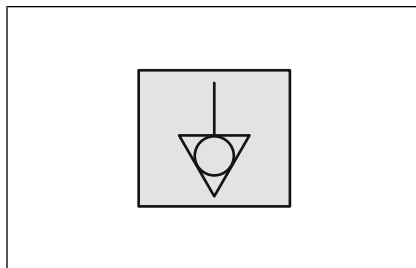


Image: Symbol for potential equalisation

The unit can 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 with at least 3 mm contact opening before the unit.

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

6.2.1 Description of the power connection

**DANGER**

Danger to life from electric shock due to several electrical supply lines

In the case of units with a socket, there may be voltage present in the electrical junction box due to a separate supply line.

- When working on the unit, always disconnect both electrical supply lines.

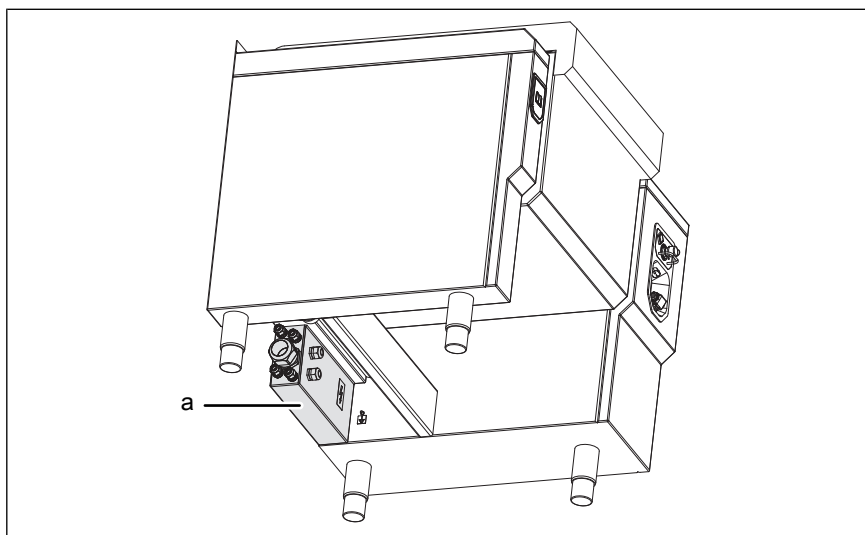


Image: Electrical junction box on the unit

a Electrical junction box

If the cable gland is missing, press out the intended cable gland and insert a suitable cable gland.

6.2.2 Connecting the power connection cable

**DANGER**

Risk of personal injury and physical 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 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.

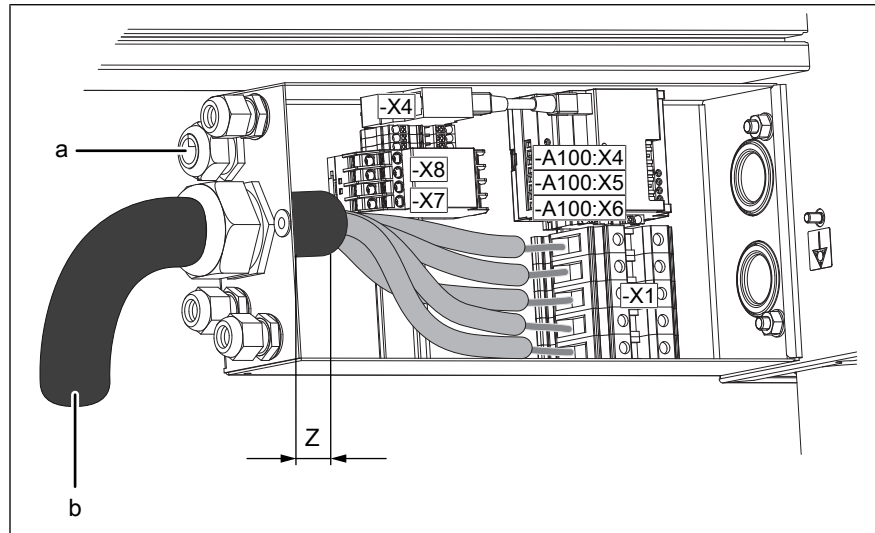


Image: Connection terminals on the unit

a Cable gland

b Power connection cable

Z Insulating jacket maximum
30 mm

-X1 Power connection

-A100:X4 Connection energy
optimization system

-X4 Socket connection

-A100:X5 Floating contact

-X7 Kitchen managing
system

-A100:X6 External signaling

-X8 fire protection interface

Requirement Unit is disconnected

Connection line not live

Cover plate for service connections removed

Connection complies with the specifications (see "Equipment and
connection data")

1. Unscrew the electrical junction box cover.
2. Feed the connection line into the junction box through the cable
gland.
↳ Make sure that the dimension Z is observed
3. Connect the connection line in accordance with the wiring
diagram.
4. Firmly tighten the cable gland for strain relief.
5. Screw on the electrical junction box cover.
↳ If necessary, attach the protective conductor.
6. Fill out the commissioning report.

6.2.3 Connecting the socket


DANGER

Risk of personal injury and physical 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 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.


DANGER

Danger due to electric shock in the absence of personal protection

Only connect the socket with a separate fault current circuit breaker.

Use fault current circuit breaker type A with maximum 30 mA.



The socket is fed separately and must be fused at the building (see "Equipment and connection data")

Requirement

Unit is disconnected

Connection line not live

Cover plate for service connections removed

Connection complies with the specifications (see "Equipment and connection data")

1. Unscrew the electrical junction box cover.
2. Screw the appropriate cable gland into the pre-punched opening of the housing.
3. Feed the connection line into the junction box through the cable gland.
4. Connect the connection line in accordance with the wiring diagram.
5. Firmly tighten the cable gland for strain relief.
6. Screw on the electrical junction box cover.
 - ↳ If necessary, attach the protective conductor.
7. Fill out the commissioning report.

6.2.4 Connect energy optimization system



DANGER

Risk of personal injury and physical 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 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 device can be connected to an energy optimization system designed in accordance with DIN 18875.

- Requirement** Unit is disconnected
Connection line not live
Cover plate for service connections removed
Connection complies with the specifications (see "Equipment and connection data")
1. Unscrew the electrical junction box cover.
 2. Screw the appropriate cable gland into the pre-punched opening of the housing.
 3. Feed the connection line into the junction box through the cable gland.
 4. Connect the connection line in accordance with the wiring diagram.
 5. Firmly tighten the cable gland for strain relief.
 6. Screw on the electrical junction box cover.
↳ If necessary, attach the protective conductor.
 7. Fill out the commissioning report.

Connecting external contacts



DANGER

Risk of personal injury and physical 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 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.

Requirement Unit is disconnected

Connection line not live

Cover plate for service connections removed

Connection complies with the specifications (see "Equipment and connection data")

1. Unscrew the electrical junction box cover.
2. Screw the appropriate cable gland into the pre-punched opening of the housing.
3. Feed the connection line into the junction box through the cable gland.
4. Connect the connection line in accordance with the wiring diagram.
5. Firmly tighten the cable gland for strain relief.
6. Screw on the electrical junction box cover.
↳ If necessary, attach the protective conductor.
7. Fill out the commissioning report.

6.2.5 Connecting to the potential equalisation circuit

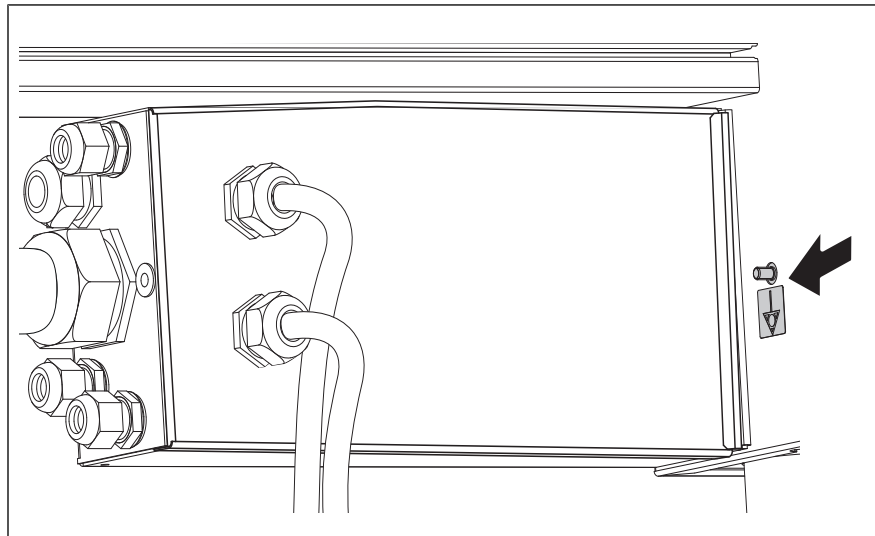


Image: Connecting the potential equalisation

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

6.2.6 Connect fire protection interface



DANGER

Risk of personal injury and physical 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 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.

An external fire protection system can be connected in two ways:

- Release by floating contact
- Release by external signal

Requirement Unit is disconnected

Connection line not live

Cover plate for service connections removed

Connection complies with the specifications (see "Equipment and connection data")

1. Unscrew the electrical junction box cover.
2. Screw the appropriate cable gland into the pre-punched opening of the housing.
3. Feed the connection line into the junction box through the cable gland.
4. Remove stud -A101:X3:1 / -A101:X3:2.
5. Connect the connection line in accordance with the wiring diagram.
6. Firmly tighten the cable gland for strain relief.
7. Screw on the electrical junction box cover.
↳ If necessary, attach the protective conductor.
8. Fill in the commissioning report.



The stud -A101:X3:1 / -A101:X3:2 bridges the fire protection interface function. It is mandatory to remove the stud after installation is complete.

6.3 Connecting the kitchen management system

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

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 plug

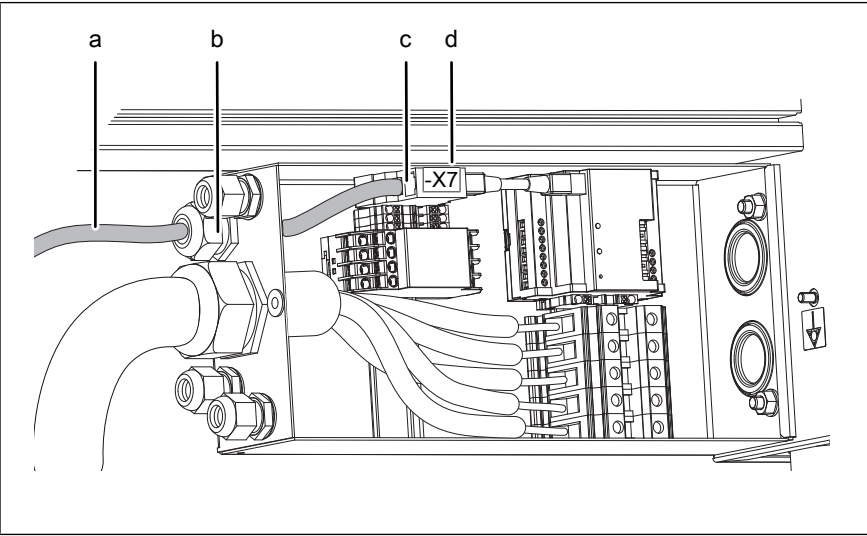


Image: Connecting the Kitchen management system

- a

Network cable
- b

Cable passage
- c

RJ45 plug
- d

Connection -X7 RJ45

Requirement Unit is disconnected

1. Unscrew the electrical junction box cover.
2. Pull the network cable into the unit through the cable gland provided.
3. Connect the network cable to the unit with the RJ45 plug.
4. Secure the network cable with cable ties.
5. Firmly tighten the cable gland for strain relief.
6. Screw on the electrical junction box cover.
7. Log the network on with the basic control setting (see "Making basic control setting").
8. Fill out the commissioning report.

6.4 Performing basic control setting

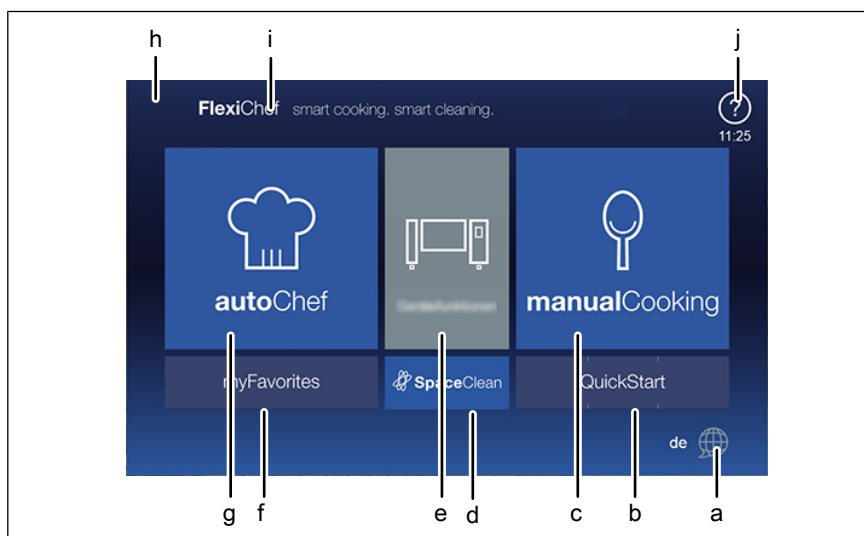


Image: Main menu

- | | |
|------------------------------------|--------------------------------------|
| a Button <i>Language selection</i> | f "myFavourites" button |
| b Buttons "QuickStart" | g "autoChef" button |
| c Button "ManualCooking" | h Button <i>Standby</i> (optional) |
| d Button "SpaceClean" | i Information bar |
| e Button "Equipment information" | j Button <i>FlexiHelp</i> (optional) |

6.4.1 Changing the basic control setting

The basic settings for operation can be displayed and changed by entering the PIN "111".

Some basic settings require a separate PIN, please contact the manufacturer.



The basic settings are made in the dialogue.

Advanced settings are made via the parameters for the settings.

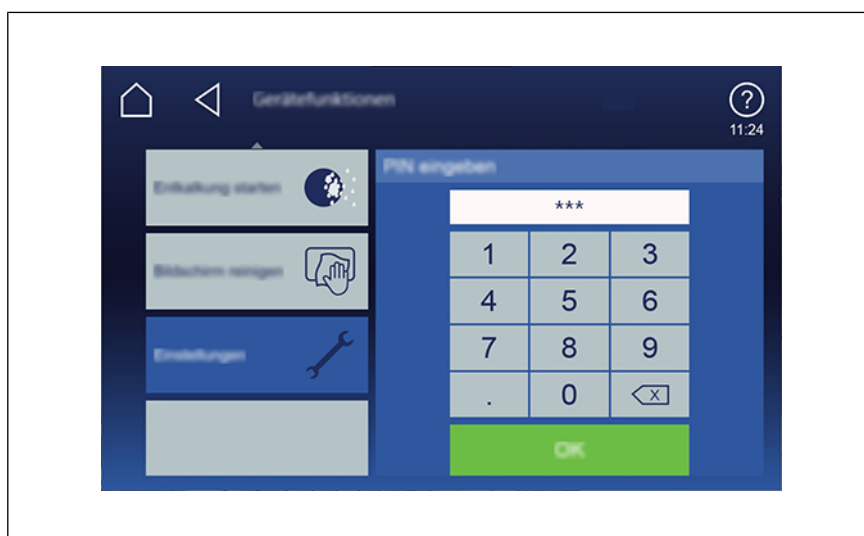


Image: PIN window



If an incorrect PIN is entered, access can only be gained to the equipment information in the *Equipment settings* menu.

Requirement Main menu displayed

1. Tap the "myFlexiChef" button.
↳ *Equipment function* menu is displayed.
2. Tap the "Equipment settings" field.
↳ *PIN* window opens.
3. Enter the PIN.
4. Tap on "OK" button.
↳ *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 with tap water

Installation work on tap water lines and the unit may only be performed by a specialist company, which is approved by the 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 water utility company responsible.

Professional qualification for tap water installation work

Installation work on the tap water lines and the unit may only be carried out by a plumber from the specialist company assigned to the work.

The unit has a connection for permanent installation to the mains tap water.

The unit is equipped with a permanent connection for:

- Warm tap water
- Cold tap water



Always connect both water connections to the unit.

If only cold tap water is available at the installation site, connect both water connections on the unit to the cold tap water.

Water hardness

If the water hardness is set to level 1, ensure that the water hardness is always present. If in doubt, set a higher level.

No descaling is required for water hardness level 1.

If a salt-based softener is used, do not adjust the waste.

If an osmosis system is used, set a blend that does not fall below a water hardness of 0,7 mmol/l (3,9 °dH).

**DANGER****Risk of personal injury and physical damage from electric shock**

- Before working on the unit, ensure that the unit has been disconnected from the power supply.

**CAUTION****Hygiene risk from contaminated drinking water**

- In the UK: For the drinking water installation, the specifications of the EN 1717 must be observed.
- Other countries: The connection to the drinking water supply must be equipped with a backflow preventer type EA.

**CAUTION****Hygiene risk due to warm water temperature being too low**

Risk to health from formation of microorganisms, if warm water < 55 °C is used for food

- Make sure that the warm infeed water has a temperature of at least 55 °C.

ATTENTION**Risk of physical damage from the wrong water quality**

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

ATTENTION**Risk of physical damage from dirt particles in the tap water**

- Ensure that a fine filter with a mesh size < 80 µm is installed in the warm and cold water lines.

ATTENTION**Risk of physical damage from calcium deposits**

Calcium can become deposited in the cleaning system. Components may be damaged and warranty claims may be limited.

- Water hardness must be set during initial commissioning.

6.5.1 Connecting the tap water connection line

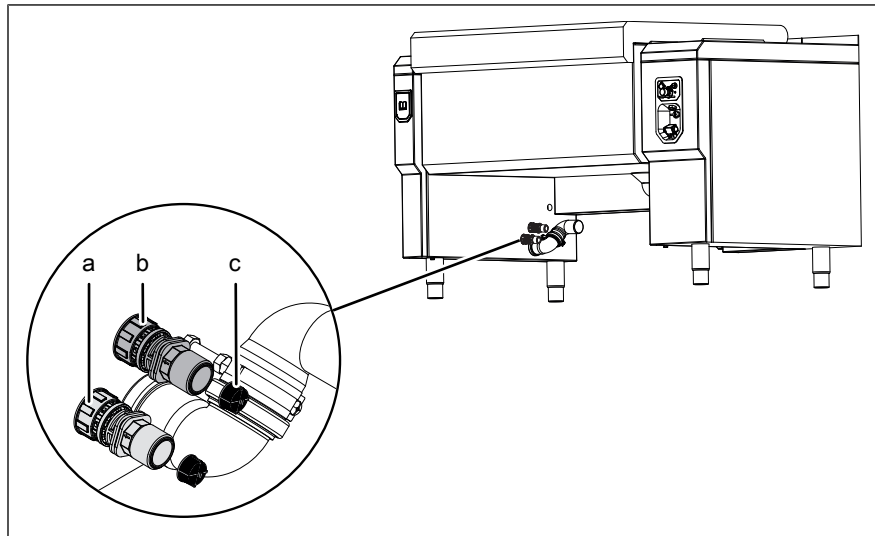


Image: Water connection

- a Cold tap water connection (marked blue)
- b Warm tap water connection (marked red)
- c Dirt filter

Requirement The tap water complies with the specifications (see "Equipment and connection data")

Water hardness set (see "Equipment and connection data")

Fine filter with a mesh size $< 80 \mu\text{m}$ installed

Backflow preventer installed

The connection lines are pressure-tight and suitable for tap water

Cover plate for service connections removed

1. Flush the connection lines thoroughly.
2. Ensure that dirt filters are inserted in the water connections.
3. Connect the connection lines in the building to tap water valves using seals.
4. Connect the connection lines (cold and warm) to the unit.
5. Open the tap water valves and check the threaded connectors for leaks.
6. Fill out the commissioning report.

6.6 Making the wastewater connection

Installation work with wastewater

Installation work on wastewater lines and the unit may only be performed by a specialist company, which is responsible for wastewater systems. The applicable regional regulations, standards and guidelines must be observed, as well as the connection conditions imposed by the wastewater system operator responsible.

Professional qualification for wastewater specialist

Installation work on wastewater lines and the unit may only be carried out by a wastewater specialist from the specialist company assigned to the work.

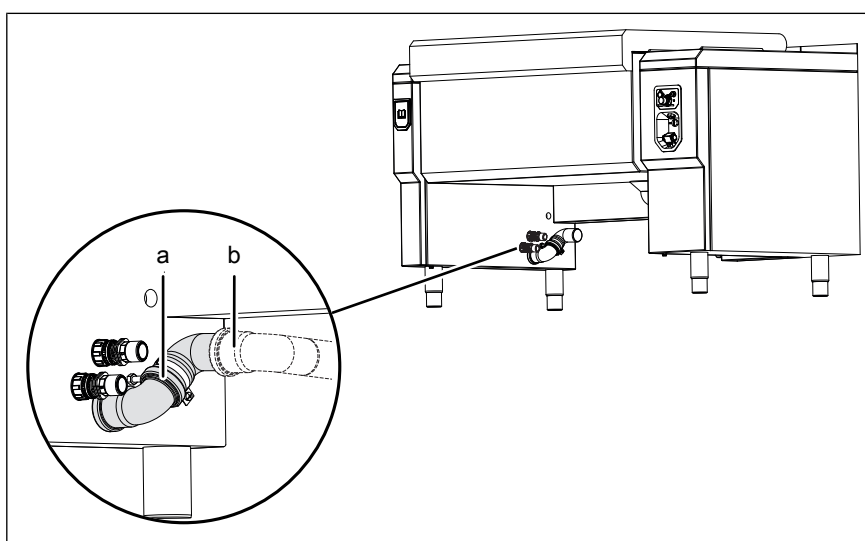


Image: Wastewater connection

a Wastewater connection

b Wastewater line in the building

- With FlexiChef the wastewater discharge is in the right or left side arm depending on the construction type.
- With FlexiChef Team one wastewater discharge is in the right side arm and one in the left side arm.

6.6.1 Connecting the wastewater line to a permanent connection

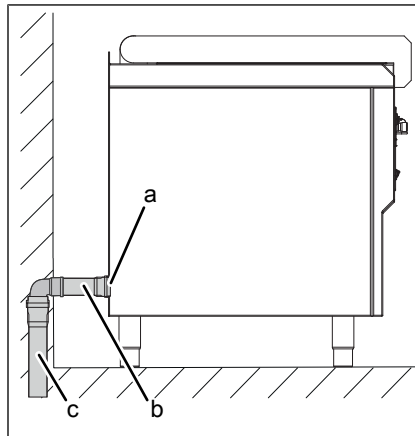


Image: Wastewater line to a permanent connection

a Wastewater connection
b Wastewater line

c Wastewater system

Requirement Pipe lines comply with specifications (see "Equipment and connection data")

Cover plate for service connections removed

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

6.6.2 Connecting the wastewater connection to a waste trap in the building

ATTENTION

Risk of water escape if there is backing up in the wastewater pipe

The water height within the waste trap must not be more than 50 mm mm.

The waste trap must lie below the wastewater connection of the unit.



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

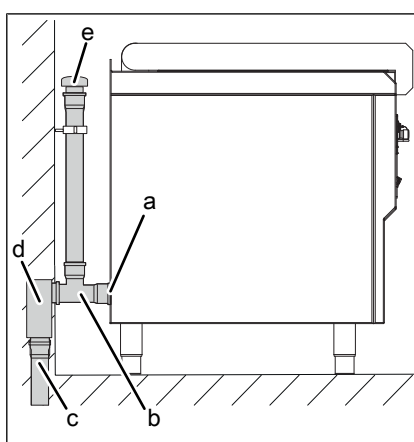


Image: Wastewater line with waste trap in the building

- | | |
|-------------------------|--------------------------|
| a Wastewater connection | d Wastewater system trap |
| b Wastewater line | e Vacuum breaker |
| c Wastewater system | |

Requirement Wastewater line complies with the specifications (see "Equipment and connection data")

Cover plate for service connections removed

1. Unscrew the pipe clamp on the unit's wastewater connection.
2. Remove the waste trap from the unit.
3. Install the wastewater line up to the connection at the sewer system.
4. Secure the wastewater line with pipe clamps.
5. Fill out the commissioning report.

6.6.3 Connecting a wastewater line with an unobstructed discharge



The wastewater line must end at least 20 mm above the floor gutter.

In the case of the marine version, it must end at least 100 mm above the floor gutter.

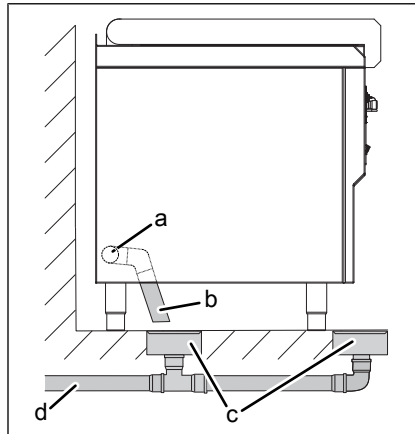


Image: Connection with unobstructed discharge

- | | |
|-------------------------|---------------------|
| a Wastewater connection | c Floor gutter |
| b Wastewater line | d Wastewater system |

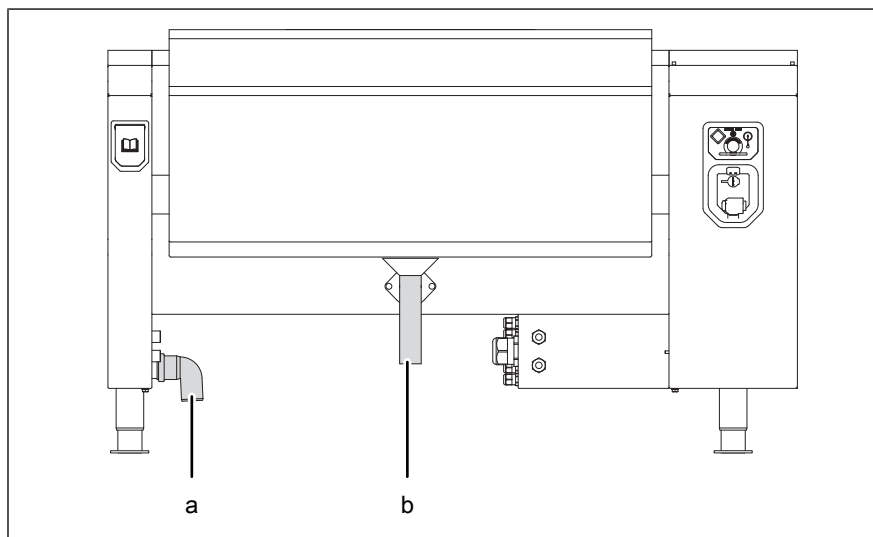


Image: Wastewater connection, marine version

- | | |
|--|-------------|
| a Side of drain (version " high-speed cooking, ReadyXpress") | b Pan drain |
|--|-------------|

Requirement Pipe lines comply with specifications (see "Equipment and connection data")

Cover plate for service connections removed

1. Install wastewater line with a drop to the floor gutter.
2. Secure the wastewater line with pipe clamps.
3. Fill out the commissioning report.

7 Fine alignment of the unit

7.1 Align pan horizontally

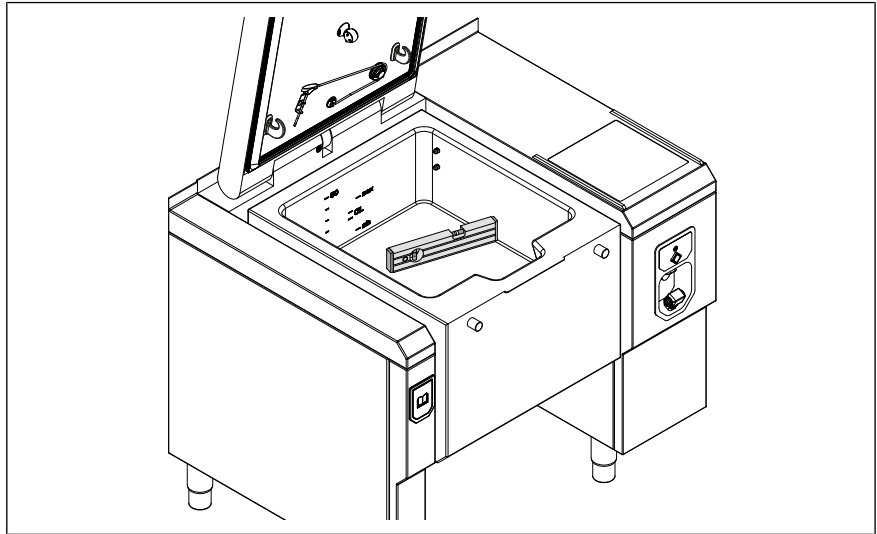


Image: Align pan horizontally

Requirement Unit is aligned

1. Open the lid (see "Opening and closing the lid").
2. Place the spirit level on the frying surface.
3. Align the pan horizontally in the longitudinal and transverse direction by screwing the equipment leg in or out.
4. Fill out the commissioning report.

7.2 Aligning the pan surface

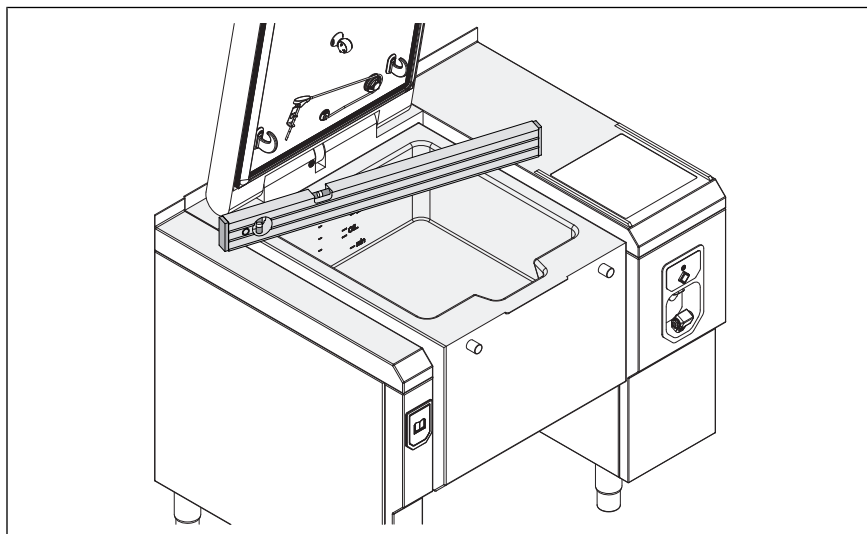


Image: Aligning the pan surface

Requirement Pan horizontally aligned

1. Align the surface of the pan with the side rail, the operating rail and the centre frame in one plane and horizontally.
2. Check that the pan is still horizontally aligned.
↳ If necessary, align pan horizontally again.
3. Fill out the commissioning report.

7.3 Check and align pan stop

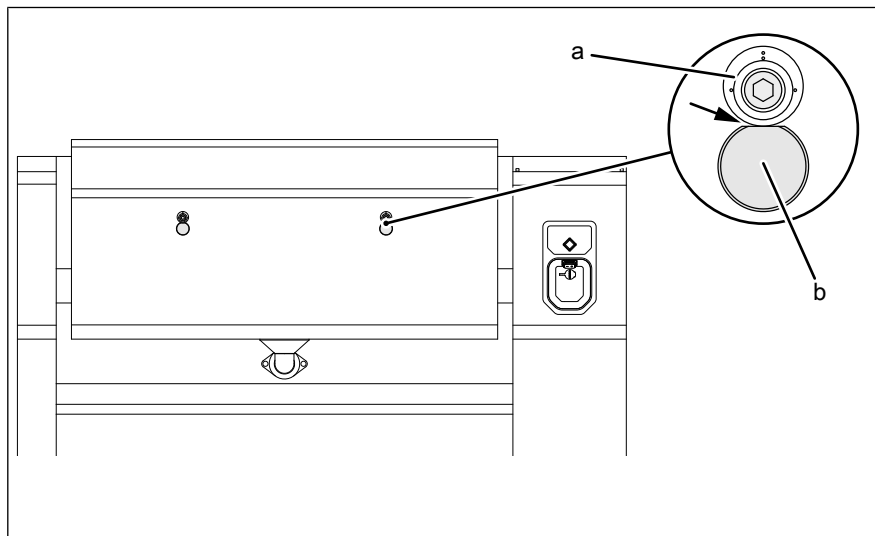


Image: Check pan stop

a Eccentric on the pan

b Pan stop on the frame

Pan horizontally aligned

1. Check that the pan rests on both pan stops.
2. If not, lift the rear leg of the corresponding pan side slightly.
↳ Do not adjust the eccentric.
3. Fill out the commissioning report.

7.4 Check the stability of the unit legs

1. Check that all equipment legs have good contact with the ground.
2. If necessary, rotate the leg of the unit until it is in firm contact with the ground.
3. Fill out the commissioning report.

7.5 Check and align lid lock



If the unit is not correctly aligned, the lid collides with the locking bolts on the pan when it is closed. In this case the lid opens again and an error message is displayed.

- Align the unit once again.

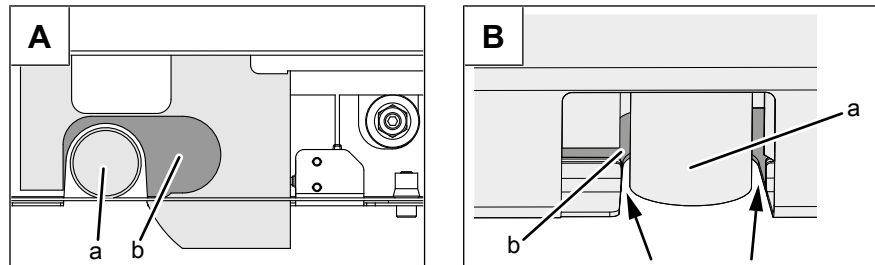


Image: Lid locking: A: Front view; B: View from below

a Locking bolt

b Inner part locking

When opening and closing the lid, the locking bolt on the pan must be freely engaged in the locking mechanism.

1. Check that the inner part of the locking device and the locking bolt do not touch.
2. If the bolt is touched, the diagonal must be checked (see "Checking the diagonal and correcting the alignment")
3. Fill out the commissioning report.

7.5.1 Check diagonal and correct alignment

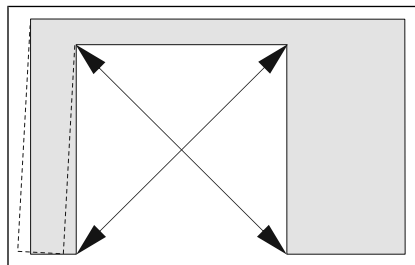


Image: Checking alignment

Requirement Unit is aligned

1. Measure the diagonals between the arms under the pan and compare them.
2. If there is a difference of more than 5 mm mm, correct the alignment.

8 Checking operation



DANGER

Risk of personal injury and physical damage from unsuccessful operational check

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



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.

Requirement Power connection made
 Water connection made
 Wastewater connection made
 Unit is aligned
 Unit cleaned

8.1 Checking the pan position



After setting up the unit, it is possible that the lid and pan can no longer be moved, since the pre-programmed positions can no longer be reached.

- Recalibrate the lid and pan in the Service menu.

Requirement Pan rests on pan stop

1. Open and close the lid (see "Opening and closing the lid")
 ↳ If the lid jams, the alignment must be repeated.
2. Close the lid.
3. Repeat the procedure for the second pan of a FlexiChef Team.
4. Fill out the commissioning report.

8.2 Checking the lid

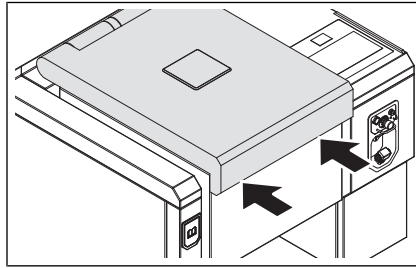


Image: Checking the pan position

1. Open and close the lid (see "Opening and closing the lid")
2. Check whether the lid opens and closes properly.
 - ↳ If the lid makes a noise or jerks, check the alignment.
3. Fill out the commissioning report.

8.3 Checking the water inlet

1. Press the On Off ("I O") switch to "I".
 - ↳ The Main menu is displayed.
2. Tap the "Equipment functions" button.
3. Tap the "Water inlet" field.
4. Set the water inlet to "Warm water".
5. Set the water quantity to 5 l using the rollers.
6. Tap the "Start" field.
7. Check whether the water jet hits the edge of the pan.
8. Perform the same procedure for the cold water.
 - ↳ If the water jet hits the edge of the pan, screw the supplied
Perlator to the water inlet.
9. Fill out the commissioning report.

8.4 Checking the controls

Requirement Pan filled with at least 13 l of water

1. Press the On Off ("I O") switch to "I".
 - ↳ The Main menu is displayed.
2. Tap the "Manual cooking" button.
 - ↳ The Manual cooking menu is displayed.
3. Tap the "Soft cooking" field.
 - ↳ The "Soft cooking" menu is displayed.
4. Set the cooking temperature to 70 °C and confirm.
5. Set the cooking time to 1 minute and confirm.
6. Set the level to 6 and confirm.
7. Tap the "Start" button in the information bar.
 - ↳ The pan heats up.
 - ↳ The temperature no longer increases.

8. Tap the "Continue" field.
 - ↳ Soft cooking starts.
9. Wait for the cooking time to end.
 - ↳ The heating of the pan is ended.
 - ↳ The "Stop" button is replaced with the "Start" button.
 - ↳ The cooking time is reset.
 - ↳ The controls are functioning.
10. Switch off the unit.
11. Fill out the commissioning report.

8.5 Checking the wastewater connection

8.5.1 Checking the wastewater line to a permanent connection

1. Fill the pan at least half full with water.
2. In the case of FlexiChef Team, fill the second pan at least half full with water.
3. Open the drain and check that the filling funnel underneath the pan does not overflow.
4. In the case of FlexiChef Team, open the drain of both pans at the same time.

If the wastewater line can not discharge the water at this flow rate, carry out the following measures:

5. Ensure that the water height in the waste trap is not more than 50 mm.
6. Vent the wastewater line.
7. If the cause lies in the sewer system in the building, contact the water installer.
8. Fill out the commissioning report.

8.5.2 Checking a wastewater line with an unobstructed discharge

1. Fill the pan with water up to the top water fill level mark.
2. Tilt the pan and check that the floor gutter does not overflow.
3. If the floor gutter can not discharge the water at this flow rate, contact the water installer.
4. Fill out the Commissioning report.

9 Putting the unit into service

Requirement Power connection made
Housing closed
Operation successfully tested

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

9.1 Nameplate

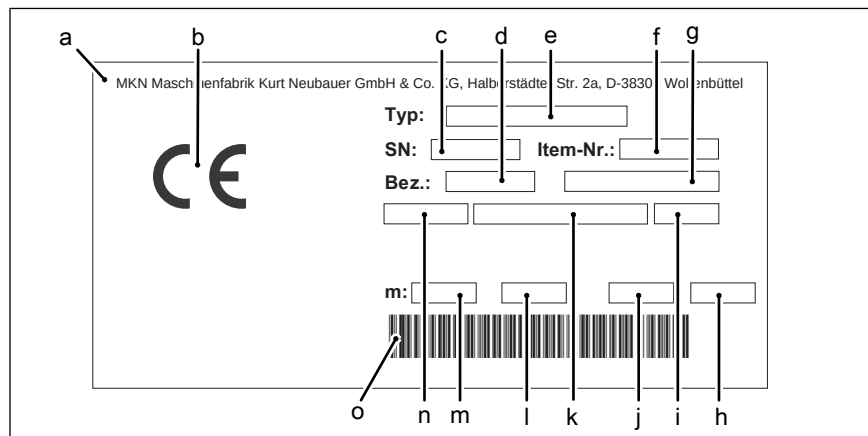


Image: Nameplate information

- | | |
|--------------------------|-----------------------------|
| a Manufacturer | i Frequency |
| b CE mark | j Country of destination |
| c Serial number | k Type of connection |
| d Equipment abbreviation | l Protection class |
| e Type number | m Weight |
| f Item number | n Electrical connected load |
| g Equipment designation | o Barcode |
| h Year of manufacture | |

9.2 Filling out the Commissioning report

General information	Yes	No
Information from the nameplate entered? SN: _____ Type _____ E: _____ Bez: _____ Item No.: (if _____ available)	☐	☐
Obvious damage to the unit? What and where?: _____	☐	☐
Unit levelled?	☐	☐
FlexiChef Team connected and fixed?	☐	☐
FlexiChef Team control unit connected?	☐	☐
FlexiChef Team control unit installed in control arm front panel?	☐	☐

General information	Yes	No
Unit fastened to the floor?	☐	☐
Secured against tilting ☐ Floor screw fitting ☐ Floor bonding	Secured against sliding ☐ Floor screw fitting ☐ Floor bonding	

Power connection	Yes	No
Power connection made properly?	☐	☐
☐ Equipotential bonding ☐ energy optimization system		
☐ Floating contact ☐ socket		
☐ fire protection interface ☐ _____		
Electrical connections made properly?	☐	☐
Residual-current protective device connected immediately before this unit?	☐	☐
Residual-current protective device connected before this and other units?	☐	☐
Residual current protective device with a maximum of 30 mA connected upstream of the socket?	☐	☐
Fire protection interface stud -A101:X3:1 / -A101:X3:2 removed?	☐	☐
Have date and time been set?	☐	☐
Has network configuration been set?	☐	☐
☐ DHCP IP address: _____		
Subnet mask: _____ Gateway: _____		

Putting the unit into service

Power connection	Yes	No
Has kitchen management system been set?	☐	☐
☐ On ☐ Off		
TCP port: _____		
Unit address: _____		
Water hardness set?	☐	☐
Set to level: _____		

Water connection	Yes	No
Connection pressure within indicated range?	☐	☐
Connection pressure: _____ (_____) kPa (bar)		
Water connection made properly?	☐	☐
Lines and connections leak-tight?	☐	☐
The tap water complies with the specifications of the equipment and connection data?	☐	☐
Fine filter with a mesh size < 80 µm installed or present before every water connection?	☐	☐

Wastewater connection	Yes	No
Wastewater connection made in a technically correct manner?	☐	☐
☐ On-site waste trap ☐ Vacuum breaker		
☐ Funnel drain ☐ Floor gutter		
Connection dimension of wastewater line: _____ mm		

Fine alignment of the unit	Yes	No
Pan aligned horizontally?	☐	☐
Pan surface aligned?	☐	☐
Pan stop aligned? _____	☐	☐
Firm stand of the equipment legs?	☐	☐
Lid latch aligned? _____	☐	☐
Diagonally aligned? _____	☐	☐

Function check	Yes	No
Controls are functioning?	☐	☐
Does tilting function? _____	☐	☐
Does lid opening and closing function? _____	☐	☐
Water inlet checked?	☐	☐
Does the water jet hit the edge of the pan?	☐	☐

10000023289AINBE-



Function check	Yes	No
Perlator used?	☐	☐
Wastewater drains away without backing up?	☐	☐

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

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

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

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

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

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

www.mkn.com

