



Read the operating instructions prior to commissioning

FlexFusion® GAS PLATINUM COMBI



Installation manual

Model

FPG-**615**

FPG-**621**

FPG-115

FPG-**121**

FPG-215

FPG-221



Henny Penny Corporation P.O.Box 60 Eaton,OH 45320 USA

Phone +1 937 456-8400 Fax +1 937 456-8402

Toll free in USA Phone +1 937 417-8417 Fax +1 937 417-8434

www.hennypenny.com



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1 Introduction

1.1 About this manual

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

Observe the following notes and adhere to them:

- Read the installation instructions completely prior to installation.
- Make the installation instructions available to the installation fitter at the operating site at all times.
- Preserve the installation instructions throughout the service life of the unit.
- Insert any additions from the manufacturer.
- Pass on the installation instructions to any subsequent operator of the unit.

Target group The target group of the installation instructions is trained qualified personnel that is familiar with installing and operating the unit.

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

1.1.1 Explanation of signs

▲ DANGER

Imminent danger

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

MARNING

Potential danger

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

A CAUTION

Dangerous situation

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

NOTICE

Property damage

Failure to comply can cause property damage.

INFORMATION

Information

Notes for better understanding and operation of the unit.

Symbol / sign	Meaning
•	Listing of information.
\rightarrow	Action steps which can be performed in any sequence.
1.	Action steps which must be performed
2.	in the specified sequence.
\rightarrow	Result of an action performed or additional information relating to it.

1.2 Personnel qualifications

Explanation of qualification

Skilled personnel	A skilled person is someone who, on the basis of their technical training, knowledge and experience as well as familiarity with the applicable standards, can assess the assigned work and recognize pos- sible dangers.
Expert	 An expert is a person, who has sufficient professional knowledge on the basis of his training and experience, and who is sufficiently familiar with the relevant regulations, guidelines and rules covering the particular technology, that he can assess the safe operating condition of the system. The person must be named in writing by the specialist company concerned, and the remit of his authorized tasks must also be stated.

Type of activity	Qualification
Electrical connection	ElectricianSpecialized trainingEmployee of the responsible technical company
Gas connection	 Gas expert Specialized training Employee, who is named in writing, of the specialist company concerned
Water connection	Water specialistSpecialized trainingEmployee of the responsible technical company
Waste water connection	Waste water specialistSpecialized trainingEmployee of the responsible technical company

1.3 Use of the unit

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

1.4 Warranty

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

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



2 Safety instructions

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

The installation fitter must be familiar with regional regulations and observe them.

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

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

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

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

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

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

Fire prevention Risk of fire from combustible surfaces

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

Risk of fire from objects

Do not obstruct the exhaust gas duct.

Risk of fire from combustion gases and hot surfaces

Maintain an adequate distance from grease filters on ventilation systems.



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

- Identify danger zones when transporting, installing and connecting the unit.
- Prior to starting the installation tasks, notify any operator present about the procedure.
- Prior to starting the installation task, discuss how to behave in an emergency.
- Use equipment and protective gear suitable for the activity.
- Brace housing components to prevent them from falling over and dropping.

Installation Risk of property damage and personal injury from improper installation

- Ensure that the installation area has adequate load-bearing capacity.
- Wear safety shoes and protective gloves.

Electrical connection Risk of fire from improper connection

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

Danger of electric shock from live components.

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

Gas connection Risk of explosion and fire from improper connection

- Observe applicable regional regulations of the gas utility.
- Ensure that only a tradesman licensed by the gas supplier connects the unit to the gas supply.
- Prior to working on the gas system, switch off the unit, close the gas supply from the gas system and secure it against being reopened. When bleeding air or degassing, ensure that the air and gas are discharged to the outside in a technically correct manner and without creating a risk.
- Observe the information on the nameplate and Gas type additional shield.



- Check for leaks.
- When working on the gas system and units in buildings, ensure that a hazardous gas-air mixture cannot form in the rooms.

Risk of poisoning from exhaust gases

- Ensure that exhaust gases are discharged properly and that the necessary amount of combustion air is supplied.
- Ensure that a maximum CO content of < 0.1 vol. % or < 1000 ppm is achieved in undiluted exhaust gas.

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

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

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 the system is dead.
- Prior to working on the unit, switch off the unit, close the gas supply and secure it against being reopened.
- Route connection lines such that they cannot be damaged from heat.

Commissioning Risk of property damage and personal injury from improper commissioning

- Read the operating instructions prior to commissioning. Observe the safety instructions in these installation instructions and in the "Safety information" chapter of the operating instructions.
- Only put the unit into service after a successful function test in its assembled state.
- Put the unit into service only after it has reached room temperature.
- Observe the units during operation.



3 Description of the unit

3.1 Overview of the unit

3.1.1 Countertop unit

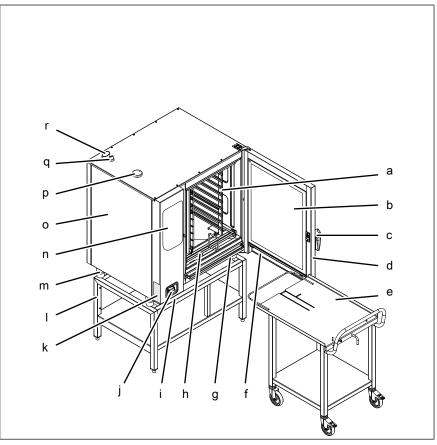


Image: Unit with tray rack trolley

- a Tray rack
- b Insulating disk
- c Door handle
- d Cooking chamber door
- e Tray rack trolley (optional)
- f Vapor drainage channel, door
- g Vapor drainage channel, unit
- h Guide rail for tray rack (optional)
- i USB port (covered)

- j Hand shower
- k Nameplate
- I Base frame (optional)
- m Unit leg
- n Operating unit
- o Housing
- p Air inlet nozzle
- q Waste gas connection
- r Steam outlet nozzle

3.1.2 Floor-standing unit

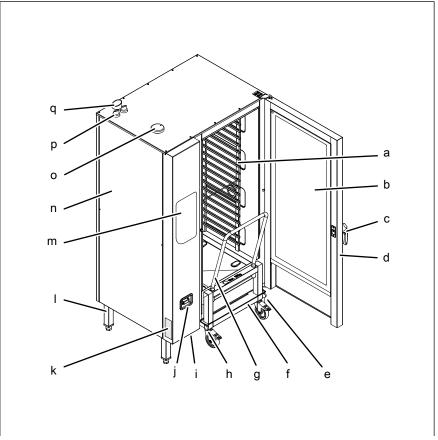


Image: Unit with tray trolley

- a Tray rack
- b Insulating disk
- c Door handle
- d Cooking chamber door
- e Guide rail (right)
- f Tray trolley
- g Handle bar
- h Guide rail (left)
- i USB port (covered)

- j Hand shower
- k Nameplate
- I Unit leg
- m Operating unit
- n Housing
- o Air inlet nozzle
- p Waste gas connection
- q Steam outlet nozzle

3.2 Planning drawing

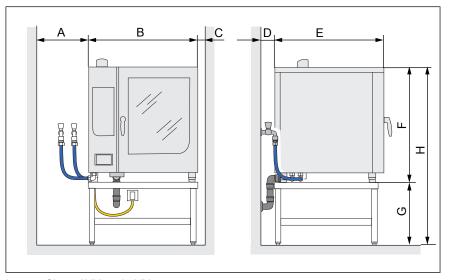


Image: Sizes 6XX and 1XX

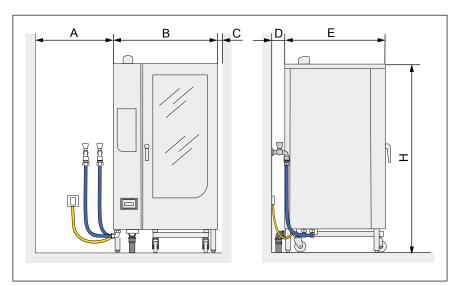


Image: Size 2XX

Unit size	615, 621	115, 121	215, 221			
Α	50 (1,97)	50 (1,97)	50 (1,97)			
В	1020 (40,16)	1020 (40,16)	1075 (42,32)			
С	50 (1,97)	50 (1,97)	50 (1,97)			
D	50 (1,97)	50 (1,97)	50 (1,97)			
E	799 (31,46)	799 (31,46)	813 (32,01)			
F	790 (31,1)	1060 (41,73)				
G	850 (33,46)	580 (22,83)				
Н	1640 (64,57)	1640 (64,57)	1960 (77,17)			
All dimensions in mm (in)						

3.3 Unit and connection data

Unit size	615	621	115	121	215	221		
Dimensions								
Unit Length x Width x Height (mm (in))		1020 (40,16) x 799 (31,46) x 790 (31,1) 1020 (40,16) x 799 (31,46) x 1060 (41,73)				1115 (43,9) x 999 (39,33) x 1960 (77,17)		
Dimensions unit on casters	Dimensions unit on casters							
Unit Length x Width x Height (mm (in))					1246 (49,06) x 935 (36,81) x 1960 (77,17)	1366 (53,78) x 1126 (44,33) x 1960 (77,17)		
Weight		T	_	1	1	T		
Unit ≈ (kg (lb))	127 (280)	132 (291,1)	155 (341,8)	165 (363,8)	307 (676,9)	379 (835,7)		
Weight unit on casters								
Unit ≈ (kg (lb))					327 (721)	411 (906,3)		
Emissions								
Noise level (db(A))	< 70							
Steam output (g/h (oz/h))	2760 (97,35)	5540 (195,41)	4210 (148,5)	8080 (285,01)	8400 (296,3)	16140 (569,31)		
Steam output (m³/h (cuft/h))	4,7 (165,9)	9,4 (331,7)	7,1 (250,5)	13,7 (483,4)	14,2 (501,1)	27,4 (966,9)		
Latent heat loss (W)	1872	3762	2862	5490	5706	10962		
Sensible heat loss (W)	1560	3135	2385	4575	4755	9135		
With condensation hood								
Steam output (g/h (oz/h))	830 (29,28)	1660 (58,55)	1260 (44,44)	2420 (85,36)				
Steam output (m³/h (cuft/h))	1,4 (49,4)	2,8 (98,8)	2,1 (74,1)	4,1 (144,7)				
Latent heat loss (W)	562	1129	859	1647				
Sensible heat loss (W)	1560	3135	2385	4575				
Operating environment								
Temperature (°C (°F))	5 (41) — 40 (104)							
Relative humidity (%) non-condensing	95							
Cooking chamber light								
Illuminant	Halogen oven lamp 20 W 12 V G4							
Energy efficiency class	С							
Electrical connection								
Protective system	IPX5							
Type of connection	1NPE / AC 50/60 Hz							

Unit size	615	621	115	121	215	221
Voltage (V)	100					
Connected load (kW)	0.6				1.0	
Recommended fuse (A)	16					
Voltage (V)	120					
Connected load (kW)	0.6				1.0	
Recommended fuse (A)	16					
Type of connection	1NPE / AC 50	0/60 Hz, 2PE /	AC 50/60 Hz			
Voltage (V)	220 — 240					
Connected load (kW)	0.6				1.0	
Recommended fuse (A)	16					
Softened drinking water connect	ction					
Water type	Softened drin	nking water, co	ld			
Residual hardness CaCO ₃ (mmol/l (ppm))	< 1 (100 ppm	1)				
Chloride CI (mg/I)	< 100					
Iron Fe (mg/l)	< 0.2					
Connection pressure (kPa (psi))	200 (29) — 6	00 (87)				
Connection size (")	R 3/4					
Drinking water connection						
Water type	Drinking water	er, cold				
Carbonate hardness CaCO ₃ (mmol/l (ppm))	< 4 (400 ppm)					
Connection pressure (kPa (psi))	200 (29) — 6	00 (87)				
Connection size (")	R 3/4					
Water consumption, steaming						
Softened drinking water (I/h (gal/h))	16 (4,23)	21 (5,55)	18 (4,76)	24 (6,34)	36 (9,51)	48 (12,68)
Water consumption, combistea	ming		•			
Softened drinking water (I/h (gal/h))	3,5 (0,92)	4,6 (1,22)	4 (1,06)	5,3 (1,4)	8 (2,11)	10,6 (2,8)
Water consumption, WaveClear	n cleaning pro	gram				
Softened drinking water (I (gal))	3 (0,79)					
Drinking water (I (gal))	32 (8,45)					
Waste water connection						
Waste water type	Dirty water, maximum 80 °C (176 °F)					
Dimension (mm (in))	50 (1,97)					
Maximum length (m (ft))	1 (3,3) with downward slope of at least 5% or 3°					
Temperature resistance (°C (°F))	95 (203)					



Description of the unit

Unit size	615	621	115	121	215	221
Maximum flow rate (I/min (gal/min))	10 (2,64)					
Exhaust air connection						
Dimension (mm (in))	53 (2,09)				73 (2,87)	
Maximum length (m (ft))	2,5 (8,2)					
Temperature resistance (°C (°F))	180 (356)					
Gas connection						
Rated heat input (kW)	11	17	18	26	36	52
Gas type	The gas type label.	, for which the	unit is set, is in	dicated on the	gas type suppl	emental
Connection dimension in accordance with EN10226-1 (")	R 3/4					
Dimension (only US version) (")	3/4 NPT					
Connection pressure (hPa (lbf/ sqft)) Natural gas 2H, 2E, 2L, 2LL *	20 (41,8)					
Connection pressure (hPa (lbf/ sqft)) Liquefied gas 3B/P, 3P *	50 (104,4)					
Natural gas E/H, G20 (m³/h (cuft/h)) **	1,14 (40,2)	1,76 (62,1)	1,87 (66)	2,7 (95,3)	3,74 (132)	5,4 (190,6)
Natural gas LL/L, G25 (m³/h (cuft/h)) **	1,33 (46,9)	2,05 (72,3)	2,17 (76,6)	3,14 (110,8)	4,35 (153,5)	6,28 (221,6)
Natural gas K, G25.3 (m³/h (cuft/h)) **	1,33 (46,9)	2,05 (72,3)	2,17 (76,6)	3,14 (110,8)	4,35 (153,5)	6,28 (221,6)
Natural gas 13A, G21 (kcal/h)	9500	14600	15500	22400	31000	44700
Natural gas Gas A(m³/h (cuft/h)) **	1,14 (40,2)	1,76 (62,1)	1,87 (66)	2,7 (95,3)	3,74 (132)	5,4 (190,6)
Natural gas G20, NG174, NGN(m³/h (cuft/h)) **	1,14 (40,2)	1,76 (62,1)	1,87 (66)	2,7 (95,3)	3,74 (132)	5,4 (190,6)
Liquefied gas B, G30 (kg/h (lb/h))	0,87 (1,92)	1,34 (2,95)	1,42 (3,13)	2,05 (4,52)	2,84 (6,26)	4,1 (9,04)
Liquefied gas P G31 (kg/h (lb/ h))	0,85 (1,87)	1,32 (2,91)	1,4 (3,09)	2,02 (4,45)	2,8 (6,17)	4,04 (8,91)
LP gas B/P G30/G31 (kg/h (lb/ h))	0,87 (1,92)	1,34 (2,95)	1,42 (3,13)	2,05 (4,52)	2,84 (6,26)	4,1 (9,04)
LP gas B/P gas E (kg/h (lb/h))	0,87 (1,92)	1,34 (2,95)	1,42 (3,13)	2,05 (4,52)	2,84 (6,26)	4,1 (9,04)
LP gas B/P G30/G31, FL50, BP29, PX275 (kg/h (lb/h))	0,87 (1,92)	1,34 (2,95)	1,42 (3,13)	2,05 (4,52)	2,84 (6,26)	4,1 (9,04)
Combustion air (m³/h (cuft/h)) **	15 (529,3)	23 (811,6)	23 (811,6)	33 (1164,5)	45 (1587,9)	65 (2293,7)
Supply air and exhaust gas rou	ting					
required delivery pressure B _{13BS} (Pa)	0 — 5					

Unit size	615	621	115	121	215	221
Exhaust gas temperature B _{13BS} (°C (°F))	170 (338)	230 (446)	195 (383)	240 (464)	205 (401)	250 (482)
Exhaust gas mass flow B _{13BS} (kg/h (lb/h))	30 (66,15)	47 (103,64)	49 (108,05)	71 (156,56)	99 (218,3)	142 (313,11)
Dimension (mm (in))	103 (4,06) x 1 (0,04)	155 (6,1) x 1 (0,04)	155 (6,1) x 1 (0,04)			

^{*} Information is country-specific and applies in Germany; for further information, see "Checking the connection pressure"

Fastening to the floor

Absolutely essential for the following unit types						
FGG615	Only in conjunction with base cabinet and underframe					
FGG621						
FGG115						
FGG121						
FGG121-621	Only in conjunction with stacking kit					
FGG115-621						
FGG121-615						
FGG115-615						

Transformer voltage

Type of connection	1NPE / AC	1NPE / AC 50/60 Hz				
Voltage range (V)	100 — 120	100 — 120				
Transformer	T1	T1 T2 / T3				
Wire identification or color	blue	red	blue	red		
Voltage measured (V)	Voltage at tr	Voltage at transformer (V)				
90 — 100	0	110	-20	120		
101 — 110	0	110	0	120		
111 — 120	0	120	0	120		

Gas connection pressure

Gas type	Connection pressure (hPa (lbf/sqft))	Connection pressure range (hPa (lbf/sqft))
Germany:		
Natural gas 2H, 2E, 2L	20 (41,8)	17 (35,5) — 25 (52,2)
Natural gas 2LL	20 (41,8)	18 (37,6) — 25 (52,2)
Liquefied gas (LPG) 3B/P, 3P	50 (104,4)	42,5 (88,7) — 57,5 (120)
Europe:		
Natural gas 2E, 2H	20 (41,8)	17 (35,5) — 25 (52,2)
Natural gas 2L	25 (52,2)	20 (41,8) — 30 (62,6)
Natural gas 2K	25 (52,2)	20 (41,8) — 30 (62,6)

^{**} Data valid at 15 $^{\circ}\text{C}$ (59 $^{\circ}\text{F}) and 1013,25 hPa (2115,34 lbf/sqft)$

Description of the unit

Gas type	Connection pressure (hPa (lbf/sqft))	Connection pressure range (hPa (lbf/sqft))				
Liquefied gas (LPG) 3B/P, 3P	50 (104,4)	42,5 (88,7) — 57,5 (120)				
Liquefied gas 3B/P	29 (60,5)	25 (52,2) — 35 (73,1)				
Liquefied gas 3P	30 (62,6)	25 (52,2) — 35 (73,1)				
Liquefied gas 3+	28 (58,5) — 30 (62,6) / 37 (77,2)	20 (41,8) — 35 (73,1) / 25 (52,2) — 45 (93,9)				
Liquefied gas 3P	37 (77,2)	25 (52,2) — 45 (93,9)				
Liquefied gas (LPG) 3B	29 (60,5)	20 (41,8) — 35 (73,1)				
Asia:						
Natural gas 13A	20 (41,8)	10 (20,9) — 25 (52,2)				
LP gas B/P	28 (58,5)	23 (48) — 33 (68,9)				
America:						
Natural gas A	20 (41,8)	17 (35,5) — 25 (52,2)				
LP gas B/P gas E	30 (62,6)	25 (52,2) — 35 (73,1)				

Gas blower speed

Unit size	Gas blower speed (rpm)	
	High output (High)	Low output (Low)
615	5050 *	4800
621	6700	4800
115	5050	2800
121	6700	2800
215	5050	2800
221	6700	2800

^{*} In deviation from the table, for model 615 the gas blower speed at the described setting and upon verification of the rated heat input is **5500 rpm**.



Exhaust gas values

Gas	Output	Unit size	CO ₂ (vol. %) *		p _{offset} (hPa (II	bf/sqft)) **	CO (ppm) ***	
type			Range	optimal	Range	optimal	Range	optimal
Natural	High	all sizes	8.6 — 9.6	9.2			0 —	< 100
gas	Low	615, 621	0.5 — 1.2	0.6	-0,8 (1,7) — 0	-0,55 (1,1)	1000	
	Low	115, 121, 215, 221	0.5 — 1.2	0.6	-0,4 (0,8) — 0	-0,15 (0,3)		
Liquefied gas,	High	all sizes	10.0 — 10.6	10.3				
propane	Low	615, 621	0.5 — 1.2	1.0	-0,8 (1,7) — 0	-0,55 (1,1)		
	Low	115, 121, 215, 221	0.5 — 1.2	1.0	-0,4 (0,8) — 0	-0,15 (0,3)		
Liquefied gas,	High	all sizes	11.5 — 12.5	11.8				
butane	Low	615, 621	0.5 — 1.2	1.0	-0,8 (1,7) — 0	-0,55 (1,1)		
	Low	115, 121, 215, 221	0.5 — 1.2	1.0	-0,4 (0,8) — 0	-0,15 (0,3)		

^{*} at partial load (Low), 0.5 — 1.2 lower than at full load (High)

Gas orifice size, natural gas

	1	1	1	1	1	1	1
	E/H	LL/L	L	K	13A	Gas A	NGN, NG174
Test gas	G20	G25	G25	G25.3	G21	G20	G20,
Wobbe index (kWh/ m³)*	15.0	12.4	12.4	12.5	16.1	15.0	15.0
Wobbe index range (kWh/m³)*	12.0 — 16 .1	10.1 — 13 .1	11.5 — 13 .1	12.7 — 13 .3	14.5 — 16.3	12.0 — 16.1	12.0 — 16.1
Connection pressure (hPa (lbf/sqft))	20 (41,8)	20 (41,8)	25 (52,2)	25 (52,2)	20 (41,8)	20 (41,8)	20 (41,8)
Primary air gap (mm (in))	30 (1,18) — 50 (1,97)						
CO content (ppm) ***	< 1000 (opti	mum < 100)					
Unit size	Orifice size	(1/100 (mm (in)))				
615	650 (25,59)	720 (28,35)	720 (28,35)	720 (28,35)	N/A**	680 (26,77)	650 (25,59)
621	590 (23,23)	670 (26,38)	670 (26,38)	670 (26,38)	N/A**	590 (23,23)	590 (23,23)
115	565 (22,24)	650 (25,59)	650 (25,59)	650 (25,59)	N/A**	590 (23,23)	565 (22,24)
121	565 (22,24)	640 (25,2)	640 (25,2)	640 (25,2)	N/A**	580 (22,83)	565 (22,24)

^{**} Adjustment aid, offset pressure applies only at low output (Low)

^{***} in undiluted exhaust gas

	E/H	LL/L	L	К	13A	Gas A	NGN, NG174
215	565 (22,24)	650 (25,59)	650 (25,59)	650 (25,59)	N/A**	590 (23,23)	565 (22,24)
221	565 (22,24)	640 (25,2)	640 (25,2)	640 (25,2)	N/A**	580 (22,83)	565 (22,24)

^{*} upper Wobbe index, information applies at 0 °C (32 °F) and 1013,25 hPa (2115,34 lbf/sqft)

Gas orifice size, liquefied gas

	В/Р	В/Р	Р	LP gas B/P	LP gas B/P gas E	LP gas B/P FL50, BP29, PX275		
Test gas	G30/G31	G30/G31	G31	G30/G31	G30/G31	G30/G31,		
Wobbe index (kWh/ m³)*	25.7 / 22.5	25.7 / 22.5	22.5	23.5	25.7 / 22.5	25.7 / 22.5		
Wobbe index range (kWh/m³)*	21.4 — 25.7	21.4 — 25.7	21.4 — 22.5	21.4 — 25.7	21.4 — 25.7	21.4 — 25.7		
Connection pressure (hPa (lbf/sqft))	50 (104,4)	30 (62,6)	37 (77,2)	28 (58,5)	30 (62,6)	50 (104,4)		
Primary air gap (mm (in))	30 (1,18) — 50	30 (1,18) — 50 (1,97)						
CO content (ppm)**	< 1000 (optimu	um < 100)						
Unit size	Orifice size (1	/100 (mm (in)))						
615	470 (18,5)	470 (18,5)	470 (18,5)	470 (18,5)	470 (18,5)	470 (18,5)		
621	430 (16,93)	430 (16,93)	430 (16,93)	430 (16,93)	430 (16,93)	430 (16,93)		
115	420 (16,54)	420 (16,54)	420 (16,54)	420 (16,54)	420 (16,54)	420 (16,54)		
121	400 (15,75)	400 (15,75)	400 (15,75)	400 (15,75)	400 (15,75)	400 (15,75)		
215	420 (16,54)	420 (16,54)	420 (16,54)	420 (16,54)	420 (16,54)	420 (16,54)		
221	400 (15,75)	400 (15,75)	400 (15,75)	400 (15,75)	400 (15,75)	400 (15,75)		

^{*} upper Wobbe index, information applies at 0 °C (32 °F) and 1013,25 hPa (2115,34 lbf/sqft)

Basic setting of the control

Basic setting	Parameter s	Standard value	Range of adjustment	Explanation
Date / time			yyyy - mm - dd	Year - Month - Day
			hh : mm	Hour : Minute



^{**} For information on manually setting the rated heat input, (see "Adjusting the basic gas setting").

^{***} in undiluted exhaust gas

^{**} in undiluted exhaust gas

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

Basic setting of control (Advanced)

Basic setting	Parameter s	Standard value	Range of adjustment	Explanation
Condensation-hood after-running time	5	60	0 – 600 s	Time extension for the condensation hood, after the cooking chamber door has been opened

Description of the unit

Basic setting	Parameter s	Standard value	Range of adjustment	Explanation
Steam elimination	48	1	0 = Low	Sets the steam elimination level
			1 = Normal	
			2 = High	
Time format	675	0	0 = 24 h	Set the 12-h or 24-h time format
			1 = 12 h	
Format for cooking	676	0	0 = hh:mm	Display format for cooking program times
program times			1 = mm:ss	
			2 = automatic	

4 Transporting the unit

△ CAUTION

Risk of property damage and personnel injury from tipping unit

- · Stay clear of lifted unit.
- · Move lifted unit carefully.

NOTICE

Risk of property damage from improper transport

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

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

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

4.1 Transporting the unit to the installation site

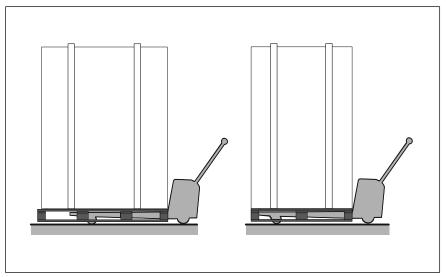


Image: Lengthwise and crosswise transport on pallet

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

4.2 Unpacking the unit

⚠ CAUTION

Risk of injury from sharp edges

· Wear protective gloves.

INFORMATION

When unpacking the unit, inspect it for transport damage.

Do not install damaged units or put into service.



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



5 Installing the unit

Supply air and exhaust gas openings

The supply air and exhaust gas openings in the unit must not be obstructed or closed.

⚠ WARNING

Risk of burns from spraying hot fat

• Install deep-fat fryers outside the range of the hand shower.

⚠ CAUTION

Risk of crushing from improper installation

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

⚠ CAUTION

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

• Observe applicable regional fire prevention regulations.

NOTICE

Risk of property damage from overheating of the unit

· Do not install the unit close to heat sources.

5.1 Maintaining minimum clearances

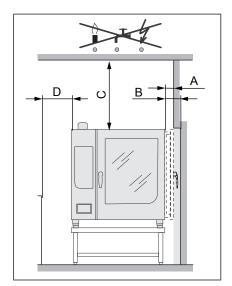


Image: Minimum clearances to walls, ceiling or units

Α	В	C *	D **			
50 (1,97) 100 (3,94)		500 (19,69)	50 (1,97)			
All dimensions in mm (in)						
* Depends on the kitchen ventilation system and quality of ceiling material						



Α	В	C *	D **
** For service work 500 mm (19,69 in) recommended			

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

- Left, right and rear: at least 50 mm (1,97 in).
- For service work 500 mm (19,69 in) on the left is recommended.
- For parking the tray trolley, 800 mm (31,5 in) on the left.
- Clearance from heat sources (baking oven), 500 mm (19,69 in) on the left.
- Clearance to deep-fat fryers, at least one length of the hand shower at left and right.
- There must be no water, gas or electric lines in the ceiling above the unit.

5.2 Lifting the unit off the pallet

△ CAUTION

Risk of property damage and personnel injury from tipping unit

- · Stay clear of lifted unit.
- · Move lifted unit carefully.

NOTICE

Risk of property damage from lifting the unit incorrectly

• Place the forks of the pallet truck next to the siphon.

Prerequisite Unit unpacked

Protective film removed

Unit cleaned

Locking brake fixed

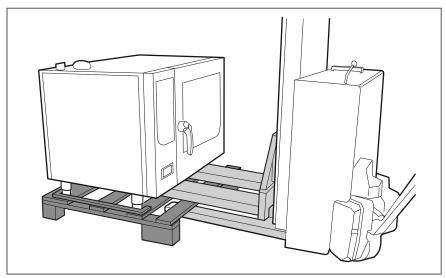


Image: Lifting the unit off the pallet



- 1. Slide the forks of the pallet truck under the unit and to the right of the siphon.
- 2. Lift the unit off the pallet.

5.3 Installing the unit on the unit legs

Prerequisite The floor must carry the weight of the unit

- 1. Lift the unit with the pallet truck.
- 2. Move the unit to the installation site.
- 3. Place the unit on the floor.
- 4. Set up the unit in accordance with the planning drawing (see "Planning drawing").

5.4 Setting up the unit on a base frame

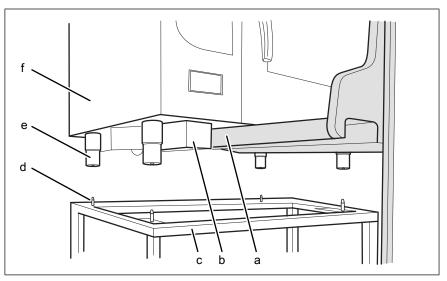


Image: Setting up the unit on a base frame

a Lift fork

- d Stud bolt
- b Waste trap on the unit
- e Unit leg

c Base frame

f Unit

Prerequisite The base frame must carry the weight of the unit

Base frame levelled

Base frame must be set up in accordance with the planning drawing

- 1. Lift the unit.
- 2. Place the unit over the stud bolts and onto the base frame.



Risk of scalding due to spillage of hot cooked food

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



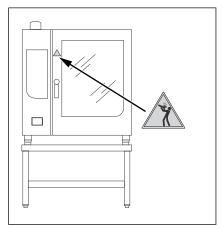


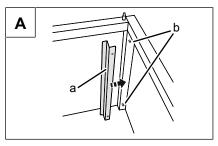
Image: Attach warning sign regarding the shelf height

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

5.4.1 Installing the support rack

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

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



B

Image: A Stop profile, B Hang-in frame

- a Stop profile
- b Bolt

- c Outboard support rack
- d Inboard support rack

Prerequisite Pins installed in the uprights of the base frame

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

5.5 Aligning the unit

5.5.1 Aligning countertop unit

Prerequisite Base frame levelled

- → Level the unit by screwing the equipment legs in or out.
- → Fill out the Start-up operation report.



5.5.2 Aligning a floor-standing unit

NOTICE

Risk of water discharge from leaking cooking chamber

The cooking chamber will leak if the tray trolley is not aligned.

- · Operate a floor-standing unit only with the tray trolley.
- · Align the tray trolley carefully.

INFORMATION

The tray trolley is needed to align a floor-standing unit.

Prepare the tray trolley.

Aligning tray trolley

Prerequisite The floor under and in front of the unit is flat

- 1. Level the unit by screwing the equipment legs in or out.
- 2. With poor floor conditions, place spacers on the casters of the tray trolley.
- 3. Open cooking chamber door.
- 4. Move tray trolley into the unit until it stops and check the alignment.
- 5. Close the cooking chamber door.

The sheet metal sealing strip on the tray trolley should make full contact (no gaps) with the door seal.

The shelves in the unit are horizontal.

6. Fill out the Start-up operation report.

Aligning tray trolley with insertion system

The Combisteamer can be equipped with the EasyIn insertion system (optional).



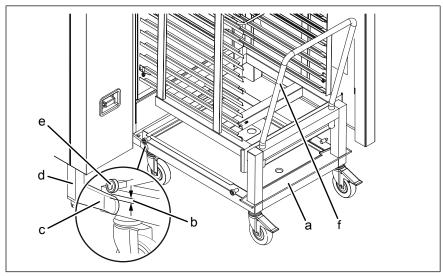


Image: Aligning tray trolley with insertion system

a Tray trolley

b Distance

c Guide rail

- d Unit leg
- e Support roller
- f Handle bar
- 1. Level the unit by screwing the equipment legs in or out.
- 2. Open cooking chamber door.
- 3. Place the tray trolley against the guide rails.
- 4. Screw the unit legs in or out until the rollers are 1 mm (0,04 in) 5 mm (0,2 in) over the guide rails.
- 5. Retract the tray trolley.
- 6. Level the guide rails.
- 7. Move tray trolley into the unit until it stops and check the alignment.

The support rollers of the inserted tray trolley no longer have floor contact.

- 8. Remove the push handle.
- 9. Close the cooking zone door.
- 10. Fill out the start-up operation report.

5.6 Fastening the unit to the floor

5.6.1 Securing the unit to prevent tipping

⚠ WARNING

Risk of accident from insufficient fastening

Unit can tip over

- Depending on the unit type, suitable measures must be taken to fasten the unit to the floor.
- Comply with the requirements for the condition of the floor.
- · Comply with the requirements for the means of fastening.
- · Follow the manufacturer's instructions for using the means of fastening.



Depending on the size, it is essential that certain combisteamer types or combisteamers used in combination with a Stapelkit (stacking kit), a recirculation hood, an underframe or base cabinet be secured to prevent tipping.

Unit types that must be secured to prevent tipping (see "Unit and connection data").

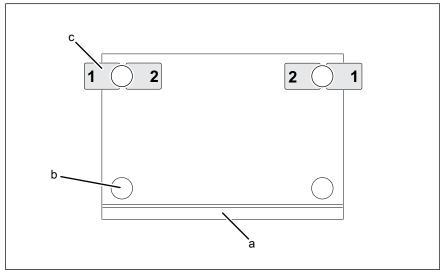


Image: Arrangement of the floor plates (view from above)

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

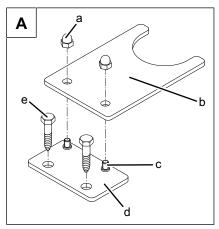
To prevent the unit from tilting, a special fastening kit is supplied by the manufacturer or is available as an accessory.

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

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

Floor without steam barrier

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



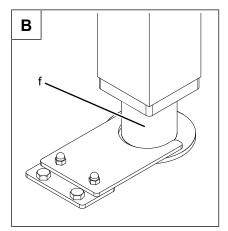


Image: A: Position of floor plate; B: floor plate bolted to the floor

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

- d Floor plate
- e Lag bolt
- f Unit leg

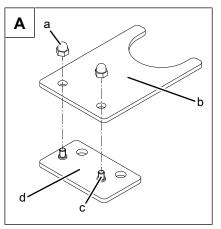
Prerequisite Floor capable of accommodating the weight of the unit Floor must be clean and suitable for the manner fastening Unit set up and aligned in accordance with the planning drawing

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

Floor with steam barrier

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





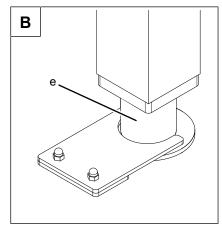


Image: A: Position of floor plate; B: floor plate glued to the floor

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

- d Floor plate
- e Unit leg

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

- 1. Insert the floor plate from the fastening kit into the retainer as shown in the drawing.
- 2. Screw on the cap nuts hand-tight.
- 3. Align the floor fasteners in position 1-1 or 2-2 on the unit leg or underframe as shown in the drawing and mark the floor.
- 4. Screw on cap nuts and remove the retainer from the floor plate.
- 5. Using the adhesive provided, fasten the floor plates to the floor.

Follow the manufacturer's instructions regarding the adhesive.

Apply the adhesive in accordance with the manufacturer's instructions.

Observe the drying time specified in the manufacturer's instructions.

- 6. Place retainers on the floor plates and secure using cap units.
- 7. Complete the start-up operation report.

5.6.2 Securing the unit against sliding

If necessary, the size 2XX combisteamer can be secured to prevent movement (optional).

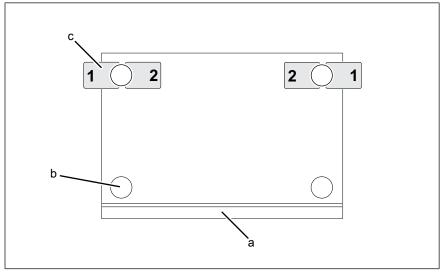


Image: Arrangement of the floor plates (view from above)

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

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 floor plates and all components required to bolt or bond to the floor.

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

Floor without steam barrier

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

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

- 1. Align the floor plates in position 1-1 or 2-2 on the unit leg as shown in the drawing and mark the fastening holes on the floor.
- Mark the position of all unit legs on the floor.
- 3. Using suitable lifting equipment, move the unit so that the holes can be drilled in the floor.
- 4. Drill holes with a diameter matching that of the anchor sufficiently deep in the floor.
- 5. Carefully place the unit in the installation position.
- 6. Using the anchors and fastening screws provided, screw the floor plates to the floor.
- 7. Ensure that a tight seal against the floor has been reestablished after the fastening screws are installed.
- 8. Complete the start-up operation report.



Floor with steam barrier

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

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

- 1. Align the floor plates in position 1-1 or 2-2 on the unit leg as shown in the drawing and mark the floor.
- 2. Using the adhesive provided, fasten the floor plates to the floor.

Follow the manufacturer's instructions regarding the adhesive.

Apply the adhesive in accordance with the manufacturer's instructions.

Observe the drying time specified in the manufacturer's instructions.

3. Complete the start-up operation report.



6 Connecting the unit

▲ DANGER

Risk of personal injury and property damage from electric shock

- Before working on the unit, ensure that the unit is dead.
- Do not operate the unit with the housing open.

⚠ CAUTION

Risk of injury from sharp edges

· Wear protective gloves.

NOTICE

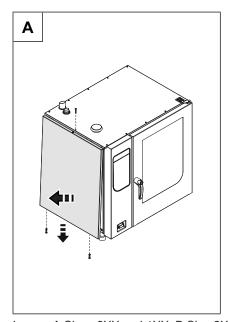
Risk of property damage from damage to the lines

· Remove and attach housing components carefully.

6.1 Opening and closing the housing

6.1.1 Removing and attaching the side wall

Removing the side wall



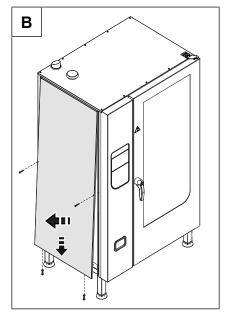


Image: A Sizes 6XX and 1XX; B Size 2XX

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



Attaching the side wall

NOTICE

Risk of property damage from leaky housing

- Check seals when attaching the housing parts.
- · Replace damaged seals.
- 1. Insert top edge of side wall.
- 2. Carefully push the bottom of the side wall inward.
- 3. Secure the bottom of the side panel with screws.
- 4. Check that the side wall is in contact with the unit on all sides.

6.2 Checking the supply air and exhaust gas routing

Routing of the supply air and exhaust gas must comply with the national and regional laws, regulations, standards and directives.

MARNING

Risk of poisoning from exhaust gases

- Ensure that exhaust gases are routed to the outside.
- Install the unit below or at ventilation systems.
- For type B devices: Connect unit to ventilation system or chimney.
- Ensure that the unit can be operated only when the ventilation system is switched on.

⚠ WARNING

Risk of burns and fire from the high temperature of the exhaust gas

The temperature of the exhaust gas can be up to 400 °C (752 °F).

- Do not touch the exhaust gas opening or its cover.
- Do not place any objects in close proximity to the exhaust gas opening or on the unit.

Installation room requirements

- An adequate supply air from outside joints and openings to the outside or an HVAC system is assured.
- Routing of exhaust gas to the outside is assured.
- Routing of the supply air and exhaust gas must not impair proper operation (for example by underpressure).
- A safety device must ensure that gas can be supplied only when the ventilation system is switched on.
- How the exhaust gas is routed depends on the unit type:
 - Type A unit: Indirect routing of exhaust gas via ventilation systems such as a ventilated ceiling or ventilation hood.



 Type B unit: Direct routing of exhaust gas via ventilation system or chimney or indirect routing of exhaust gas via ventilation systems such as ventilated ceiling or ventilation hood.

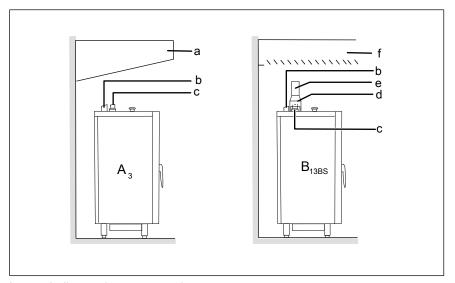


Image: Indirect exhaust gas routing

- a Ventilation hood
- b Steam outlet nozzle
- c Waste gas connection
- d Flow control
- e Exhaust gas duct
- f Ventilated ceiling

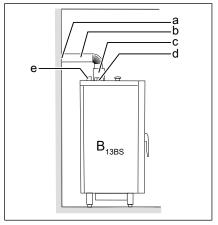


Image: Direct exhaust gas routing

- a Ventilation system or chimney
- b Exhaust gas duct
- c Flow control

- d Waste gas connection
- e Steam outlet connection
- 1. Ensure that all conditions in this section are satisfied.
- 2. Ensure that the supply air and exhaust gas routing is unobstructed.
- 3. Ensure that supply air and exhaust gas routing functions properly.
- 4. Fill out the Start-up operation report.



6.3 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.

Technical qualifications for electrical installation tasks

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

NOTICE

Risk of property damage from wrong supply voltage

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

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

Wiring diagram

The wiring diagram is included with the unit.

Electrical connection line

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

Connection	Electrical connection line
Permanent connection for fixed installation with a cable from the unit to a separate connection box.	Rubber sheath cable, oil-resistant, shrouded and flexible in accordance with IEC 60245-57 (for example: H05RN-F).
Connection of the unit with a connector.	
Permanent connection for fixed installation with a hard-wired line directly connected to the unit.	PVC sheathed cable for permanent installation in buildings or damp and wet rooms.

Permanent connection

A CAUTION

Risk of property damage and personal injury from improper installation

• In the case of a fixed electrical connection, install an all-pole disconnecting unit with at least 3 mm (0.12 in) contact opening in front of the unit.

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



Plug-in connection

⚠ CAUTION

Risk of property damage and personal injury from improper installation

• The plug-in connection must be readily accessible.

If the unit is connected with a plug to the electrical supply mains, use plugs and sockets according to IEC60309.

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

Insulation monitoring

In the case of an unearthed network (IT network), the unit can be incorporated into the insulation monitoring.

Fault current device

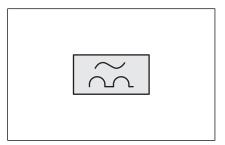


Image: RCD switch type A circuit symbol

The unit can be connected to a fault current device.

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

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

Potential equalization

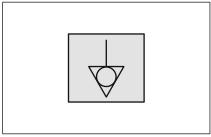


Image: Potential equalization symbol

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



6.3.1 Adjusting the unit to the supply voltage

A DANGER

Risk of personal injury and property damage from electric shock

- · Before working on the unit, ensure that the unit is dead.
- Do not operate the unit with the housing open.

NOTICE

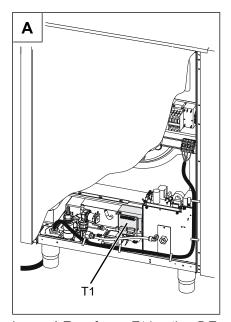
Risk of property damage from wrong supply voltage

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

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

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

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



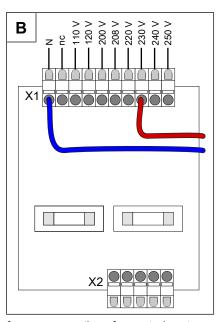
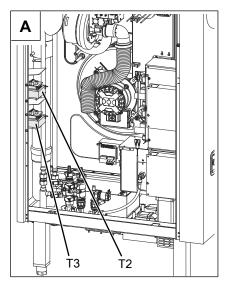


Image: A Transformer T1 location; B Transformer connections for control system



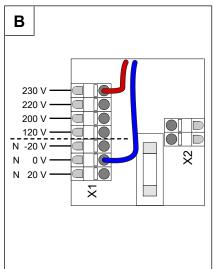


Image: A Transformer T2, T3 location; B Transformer connection for glow electrode

Prerequisite Unit dead

Left side wall removed

- 1. Use an appropriate meter to measure the supply voltage.
 - The voltage range must match the information on the nameplate.
 - If voltage fluctuations are to be expected, take the maximum expected voltage into account.
- 2. Check whether the transformer voltage is within the specified range (see "Unit and connection data").
 - If the set voltage differs, reposition the connections for the transformer voltage.
 - Document the new voltage that was set on the sticker.
- 3. In units with several transformer, repeat the procedure for each transformer.
- 4. Close the housing (see "Opening and closing the housing").
- 5. Fill out the Start-up operation report.

6.3.2 Connecting the electrical connection line



Risk of personal injury and property damage from electric shock

- · Before working on the unit, ensure that the unit is dead.
- Do not operate the unit with the housing open.

▲ DANGER

Risk of personal injury and property damage from electric shock

- Before connecting, ensure that the electrical connection line is dead.
- Ensure that the electrical connection line is undamaged.



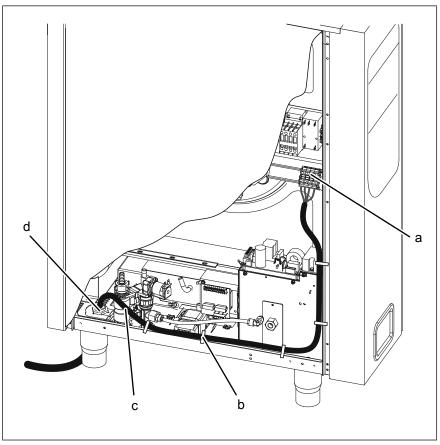


Image: Connecting the electrical connection line

- a Connection terminals
- b Cable ties

- c Electrical connection line
- d Threaded cable connection

Prerequisite Unit dead

Electrical connection line dead Unit adjusted to supply voltage Side wall open

- 1. Feed the electrical connection line into the unit through the threaded cable connection.
- 2. Connect the power connection cable in accordance with the wiring diagram.
- 3. Secure the electrical connection line with cable ties.
- 4. Tighten the threaded cable connection securely to provide strain relief.
- 5. Close the housing (see "Opening and closing the housing").
- 6. Fill out the Start-up operation report.



6.3.3 Connecting the potential equalization

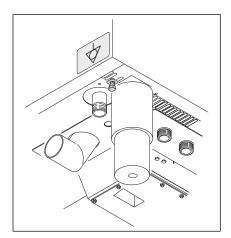


Image: Connecting the potential equalization

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

6.4 Connecting the kitchen guiding system

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

▲ DANGER

Risk of personal injury and property damage from electric shock

- · Before working on the unit, ensure that the unit is dead.
- Do not operate the unit with the housing open.

Minimum requirements for the network cable

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



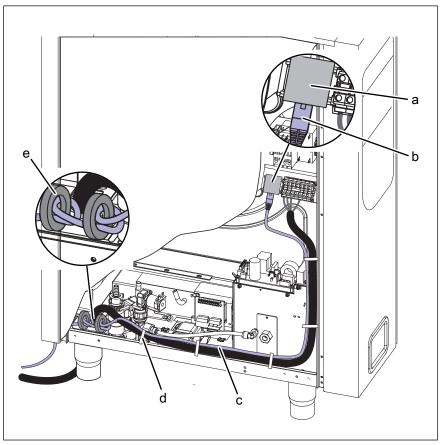


Image: Connecting the kitchen guiding system

- a RJ45 socket
- b RJ45 connector
- c Network cable

- d Cable ties
- e Ferrite ring

Prerequisite Unit dead

Housing opened

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

6.5 Performing the basic setting of the control

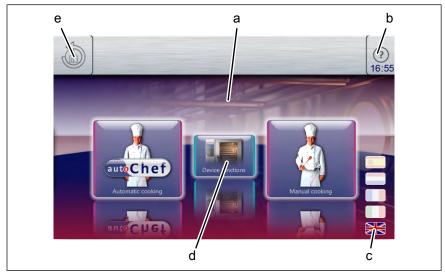


Image: Main menu

- a Main menu
- b FlexiHelp button
- c Language selection
- d "Unit functions" button
- e Back button

6.5.1 Changing the basic setting of the control

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

INFORMATION

The basic settings are made in the dialogue.

Advanced settings are made via the parameters for the settings.

Prerequisite Unit is on

The Main menu is displayed

1. Tap the "Unit functions" button.

The *Unit functions* menu is displayed.

2. Tap the "Unit settings" field.

The PIN window opens.

- 3. Enter the password.
- 4. Tap the *Confirm* button.

The *Unit settings* menu is displayed.

The basic settings can be changed (see "Unit and connection data").

5. Fill out the Start-up operation report.



6.6 Making the water connection

Drinking water installation tasks

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

Technical qualifications for drinking water installation tasks

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

The unit has a connection for permanent installation to the drinking water supply.

The unit is equipped with a permanent connection for:

- Softened drinking water for steam generation
- Drinking water for cooling, rinsing and cleaning

△ CAUTION

Hygiene risk from contaminated drinking water

The connection to the drinking water network must be equipped with a type
 EA backflow preventer.

NOTICE

Risk of property damage from the wrong water quality

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

INFORMATION

Always connect both water connections to the unit.

INFORMATION

The unit can be connected to a reverse osmosis system.

The material of the connection line from the reverse osmosis system to the unit must be suitable.



6.6.1 Connecting the drinking water connection line

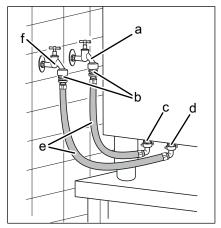


Image: Water connection

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

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

Backflow preventer installed

Pressure-resistant connection lines suitable for tap water are available

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

6.6.2 Connecting softened drinking water to both connections

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

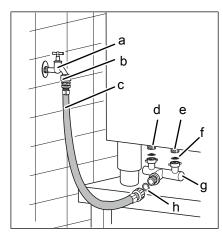


Image: Connecting softened drinking water to both connections

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

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

Backflow preventer installed

Pressure-tight connection line suitable for drinking water is available

- 1. Connect the connection line to the tap for softened drinking water using a seal.
- 2. Flush the connection line thoroughly.
- 3. Insert dirt filters into the water connections on the unit.
- 4. Connect T-piece to the unit.
- 5. Connect the connection line for softened drinking water to the Tpiece using a seal.
- 6. Open the drinking water tap and check the threaded fittings for leakage tightness.
- 7. Fill out the Start-up operation report.

6.7 Making the waste water connection

Waste water installation tasks

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

Technical qualifications for waste water installation tasks

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

6.7.1 Connecting the waste water line to a permanent connection

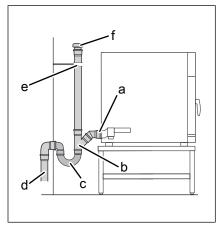


Image: Waste water line to a permanent connection

- a Waste water connection
- b Waste water line
- c Waste water mains
- d Siphon
- e Pipe clamp
- f Vacuum breaker

INFORMATION

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

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

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

6.8 Establishing the gas connection

Gas installation work

Gas installation work on the gas system and the unit may only be performed by a specialist company, which is approved by the gas 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 gas utility company responsible.

Professional qualification for gas installation work

Gas installation work on the gas system and unit may only be performed by an expert, approved by the gas utility, from the specialist company assigned to the work.



▲ DANGER

Risk of fatal injury from operating the unit with the wrong gas type

- Ensure that the gas type for which the unit is set (see gas type supplemental label) matches the gas type available at the site.
- Ensure that the unit is suitable for the available gas type (see nameplate).

The unit is a Category II multi-gas unit and is intended for operation with natural gas or liquefied gas (LPG).

The unit must be connected on the basis of the information on the nameplate, gas type supplemental label and this manual.

Nameplate and gas type supplemental label

The gas type for which the unit is set is indicated on the gas type supplemental label.

The connection pressure and the category are indicated on the nameplate. The gas types for which the unit is intended can be identified from the category.

Conditions

Before the gas connection line can be connected to the unit, the following conditions must be satisfied:

- The gas type for which the unit is set must match the gas type available at the site. If this is not the case, the unit must be converted to the gas type available (see "Converting the gas type"). Based on the category, check whether the unit is intended for the gas type available.
- All parts of the gas system must be approved for use with gas.
- The gas shut-off valve for the unit must be readily accessible.
- The diameter of the gas connection line must not be smaller than that of the connection on the unit.
- The gas connection and the gas connection line must be positioned such that they cannot be damaged by heat.

Permanent connection

The unit is intended for a permanent connection. The connection line must be flexible. Route the flexible gas connection line or gas hose in accordance with the manufacturer's specification without being stressed, kinked or twisted.

Shut-off device

The unit or the gas connection line must be equipped with a thermally activated shut-off. In strictly commercial buildings, a thermally activated shut-off is not necessary if the objective of providing fire and explosion safety is achieved by other means.



6.8.1 Description of the gas connection

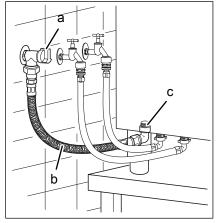


Image: Gas connection

- a Gas shut-off valve
- b Gas connection line
- c Gas connection

6.8.2 To connect the gas connection line

⚠ DANGER

Risk of personal injury and property 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 qualified personnel.

NOTICE

Risk of physical damage from improper gas connection

- Do not mix up the gas connection with a drinking water connection.
- · If the gas connection was mixed up with a drinking water connection, contact customer service.

Prerequisite Gas shut-off valve closed

Unit dead

Left side wall removed

1. Connect the unit to the gas connection line.

NOTICE

Risk of physical damage from excessively high pressure

- · When opening the gas shut-off valve on the unit, ensure that the pressure in the gas connection line is < 100 hPa (208,8 lbf/sqft).
- If the pressure is > 100 hPa (208,8 lbf/sqft), close the gas supply, reduce the pressure in a technically correct manner and notify the gas supplier.
- 2. Open the gas shut-off valve on the unit, while paying attention to the pressure in the gas connection line.



⚠ DANGER

Risk of explosion and fire from escaping gas

- When bleeding air from or degassing the gas system and the unit, ensure that the air and gas are discharged to the outside in a technically correct manner and without creating a risk.
- 3. Bleed the air from the gas system and unit in a technically correct manner.
- 4. Check for leaks outside the unit (see "Checking for leaks").

MARNING

Risk of poisoning from exhaust gases

- Ensure that exhaust gases are discharged properly and that the necessary amount of combustion air is supplied.
- Ensure that a maximum CO content of < 0.1 vol. % or < 1000 ppm is achieved in undiluted exhaust gas.
- 5. Switch on the unit.
- 6. Check the connection pressure (see "Checking the connection pressure").
- 7. Check for leaks inside the unit (see "Checking for leaks").
- 8. Check the ignition behaviour (see "Checking the ignition behaviour").
- 9. Check the flame pattern (see "Checking the flame pattern").
- 10. Check the basic gas setting (see "Checking the basic gas setting").
- 11. Switch off the unit.
- 12. Close the housing (see "Opening and closing the housing").
- 13. Fill out the Start-up operation report.

6.8.3 Checking for leaktightness

▲ DANGER

Risk of personal injury and property 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 qualified personnel.

▲ DANGER

Risk of explosion and fire from leaking, gas-conducting parts

- Check the gas connection line and all gas-conducting parts for leakage tightness at the operating pressure.
- Use only bubble-forming agents and gas leak detectors approved for use with gas.



NOTICE

Risk of physical damage from electrical short-circuits

• Do not spray bubble-forming agents onto electrical components and wires.

INFORMATION

Gas leak detectors respond to almost all combustible gases, even CO.

For this reason, ensure that the zero-point calibration of the gas leak detector was performed in fresh air, free of combustible gases. Observe the manufacturer's information.

Prerequisite Gas connection line connected

Left side wall removed

- 1. Check for leaks outside the unit.
- 2. Check for leaks inside the unit.

Checking for leaktightness outside the unit

- 1. Open the gas shut-off valve.
- Before putting the unit into service at operating pressure, check the gas connection line and all gas-conducting parts outside the unit for leaktightness with a bubble-forming agent or gas leak detector in accordance with the Technical Regulations for Gas Installations.
- 3. Fill out the Start-up operation report.

Checking for leaks inside the unit

Prerequisite Connection pressure checked

Confidential pressure enconce

- 1. Switch on the unit.
- 2. Open the *CO2 setting* display (see "Checking the basic gas setting").
- 3. Set "Output" field to high output ("High").
- 4. On models with two burners, select the "Cooking zone 1" field for burner 1.
- Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates at maximum power.

- Before putting the unit into service at operating pressure, check the gas connection line and all gas-conducting parts inside the unit for leaks with a bubble-forming agent or gas leak detector in accordance with the Technical Regulations for Gas Installations.
- 7. Press the "Stop" button.

The flame extinguishes.

The burner is off.

8. On models with two burners: Repeat the procedure for the second burner.



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9. Press the Back button twice.

The main menu appears.

- 10. Switch off the unit.
- 11. Fill out the start-up operation report.

6.8.4 Checking the connection pressure

▲ DANGER

Risk of personal injury and property 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 qualified personnel.

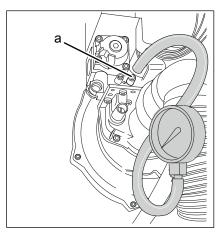


Image: Connection pressure measuring point

a Connection pressure measuring point

Prerequisite Gas connection line connected

Checked for leaktightness outside the unit

Measuring accuracy of the pressure measuring device at least 0,1 hPa (0,2 lbf/sqft)

Left side wall removed

- 1. Close the gas shut-off valve on the unit.
- 2. Unscrew the sealing plug from the connection pressure measuring point.
- 3. Connect the pressure measuring device.

NOTICE

Risk of physical damage from excessively high pressure

- · When opening the gas shut-off valve on the unit, ensure that the pressure in the gas connection line is < 100 hPa (208,8 lbf/sqft).
- If the pressure is > 100 hPa (208,8 lbf/sqft), close the gas supply, reduce the pressure in a technically correct manner and notify the gas supplier.



4. Open the gas shut-off valve on the unit, while paying attention to the pressure in the gas connection line.

▲ DANGER

Risk of explosion and fire from escaping gas

- When bleeding air from or degassing the gas system and the unit, ensure that the air and gas are discharged to the outside in a technically correct manner and without creating a risk.
- 5. Bleed the air from the gas system and unit in a technically correct manner.
- 6. Switch on the unit.
- 7. Open the *CO2 setting* display (see "Checking the basic gas setting").
- 8. Set "Output" field to high output ("High").
- 9. On models with two burners, select the "Cooking zone 1" field for burner 1.
- 10. Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates at maximum power.

11. Measure the connection pressure.

▲ DANGER

Risk of fatal injury from operating the unit at a connection pressure outside the specified range

- Do not put the unit into service.
- · Notify the gas supplier.
- 12. Check whether the measured connection pressure is within the specified range (see "Unit and connection data").
- 13. Press the "Stop" button.

The flame extinguishes.

The burner is off.

14. Press the Back button twice.

The main menu appears.

- 15. Switch off the unit.
- 16. Close the gas shut-off valve on the unit.
- 17. Disconnect the pressure measuring device.
- 18. Screw the sealing plug tightly into the connection pressure measuring point.
- 19. Open the gas shut-off valve on the unit.
- 20. Check the connection pressure measuring point for leaks (see "Checking for leaks").
- 21. On models with two burners: Repeat the procedure for the second burner.
- 22. Fill out the Start-up operation report.



6.8.5 Checking the basic gas setting

⚠ DANGER

Risk of personal injury and property 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 qualified personnel.

⚠ WARNING

Risk of poisoning from exhaust gases

- · Ensure that exhaust gases are discharged properly and that the necessary amount of combustion air is supplied.
- Ensure that a maximum CO content of < 0.1 vol. % or < 1000 ppm is achieved in undiluted exhaust gas.

INFORMATION

Some measurements on the unit require it to be at opeating temperature.

 The operating temperature is reached when the temperature in the cooking chamber is between 130 °C (266 °F) — 180 °C (356 °F).

Prerequisite Gas connection line connected

Checked for leaktightness outside the unit

Connection pressure checked

Checked for leaktightness inside the unit

Left side wall removed

- 1. Check the rated heat input at maximum output.
- 2. Check the rated heat input at minimum output.
- 3. Check the primary air quantity.
- Check the exhaust gas values.

Preparations

- 1. Switch on the unit.
- 2. Tap the "Unit functions" button.

The *Unit functions* menu is displayed.

3. Tap the "Settings" field.

The PIN window opens.

- 4. Enter password "999".
- 5. Tap the Confirm button.

The CO2 setting appears.



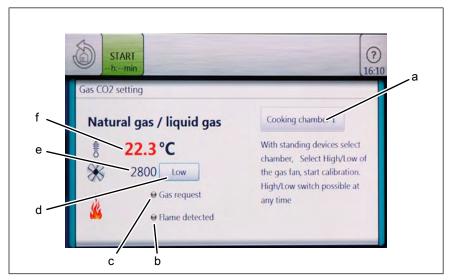


Image: CO2 setting

- a Cooking zone (burner)
- b Flame status detected
- c Gas request detected
- d Output
- e Gas blower speed

f Cooking chamber temperature

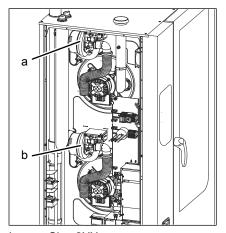


Image: Size 2XX

- a Burner 1 (cooking chamber 1)
- b Burner 2 (cooking chamber 2)



Checking the rated heat input at maximum output

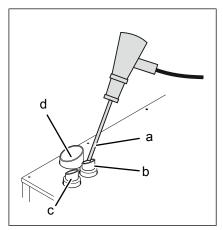


Image: Measurement in the exhaust gas

- a Exhaust gas measuring device
- c Waste gas connection, burner 2 (size 2XX only)
- b Waste gas connection, burner 1
- d Steam outlet nozzle
- 1. Switch on the unit.
- 2. Open the *CO2 setting* display (see "Checking the basic gas setting").
- 3. Set "Output" field to high output ("High").
- 4. On models with two burners, select the "Cooking zone 1" field for burner 1.
- 5. Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates at maximum power.

The current cooking chamber temperature is displayed.

The burner's gas blower speed is displayed.

6. Check whether the displayed speed matches the speed specified for the model (see "Unit and connection data").

If the displayed speed does not match the speed specified for the model in the table, contact customer service.

7. Measure the exhaust gas values with an approved exhaust gas measuring device once the operating temperature is reached.

To regulate the cooking chamber temperature, open the cooking chamber door slightly.

8. Check whether the measured CO₂ content is within the specified range (see "Unit and connection data").

If the CO₂ content is not within the specified range, adjust the basic gas setting (see "Adjusting the basic gas setting").

9. On models with two burners: Repeat the procedure for the second burner.

10. Press the "Stop" button.

The flame extinguishes.

The burner is off.

11. Press the Back button twice.

The main menu appears.

- 12. Switch off the unit.
- 13. Fill out the start-up operation report.

Checking the rated heat input at minimum output

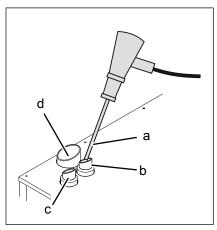


Image: Measurement in the exhaust gas

- a Exhaust gas measuring device
- b Waste gas connection, burner 1
- c Waste gas connection, burner 2 (size 2XX only)
- d Steam outlet nozzle
- 1. Switch on the unit.
- 2. Open the *CO2 setting* display (see "Checking the basic gas setting").
- 3. Set "Output" field to low output ("Low").
- 4. On models with two burners, select the "Cooking zone 1" field for burner 1.
- 5. Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates under partial load.

The current cooking chamber temperature is displayed.

The burner's gas blower speed is displayed.

6. Check whether the displayed speed matches the speed specified for the model (see "Unit and connection data").

If the displayed speed does not match the speed specified for the model in the table, contact customer service.

7. Measure the exhaust gas values with an approved exhaust gas measuring device once the operating temperature is reached.

To regulate the cooking chamber temperature, open the cooking chamber door slightly.



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- 8. Check whether the measured CO₂ content is within the specified range (see "Unit and connection data").
 - If the CO₂ content is not within the specified range, adjust the basic gas setting (see "Adjusting the basic gas setting").
- 9. On models with two burners: Repeat the procedure for the second burner.
- 10. Press the "Stop" button.

The flame extinguishes.

The burner is off.

11. Press the Back button twice.

The main menu appears.

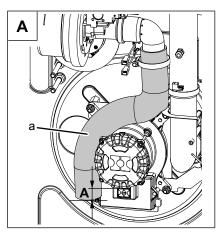
- 12. Switch off the unit.
- 13. Fill out the start-up operation report.

Checking the primary air quantity

⚠ DANGER

Risk of personal injury and property 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 qualified personnel.



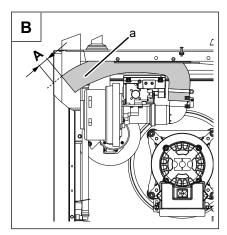


Image: A Sizes1XX and 2XX; B Size 6XX

- a Suction hose
- A Primary air gap



Preriquisite Left side wall removed

1. Check the position and condition of the suction hose.

Suction hose has no kinks.

The suction hose is installed in the manner and position shown in the figure.

The suction hose is not damaged.

The opening in the suction hose is open and unobstructed.

If the position and condition are not OK, adjust the primary air gap (see "Adjusting the basic gas setting").

- 2. Measure the primary air gap (A).
- 3. Check whether the measured primary air gap is within the specified range (see "Unit and connection data").

If the measured primary air gap is not in the specified range, adjust the primary air quantity (see "Adjusting the basic gas setting").

4. Check the ignition behaviour (see "Checking the ignition behaviour").

The ignition behavior is OK.

If the ignition behaviour is not OK, adjust the primary air gap (see "Adjusting the basic gas setting").

5. Check the flame pattern.

Flame pattern is OK.

If the flame pattern is not OK, adjust the primary air gap (see "Adjusting the basic gas setting").

- 6. On models with two burners: Repeat the procedure for the second burner.
- 7. Fill out the start-up operation report.

Checking the exhaust gas values

▲ DANGER

Risk of personal injury and property 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 qualified personnel.

⚠ WARNING

Risk of poisoning from exhaust gases

- Ensure that exhaust gases are discharged properly and that the necessary amount of combustion air is supplied.
- Ensure that a maximum CO content of < 0.1 vol. % or < 1000 ppm is achieved in undiluted exhaust gas.



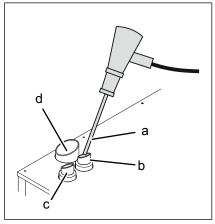


Image: Measurement in the exhaust gas

- a Exhaust gas measuring device
- b Waste gas connection, burner 1
- c Waste gas connection, burner 2 (size 2XX only)
- d Steam outlet nozzle

Prerequisite Gas connection line connected

Checked for leak tightness outside the unit

Connection pressure checked

Checked for leak tightness inside the unit

Rated heat input checked

Primary air quantity checked

Left side wall removed

- 1. Switch on the unit.
- 2. Open the CO2 setting display (see "Checking the basic gas setting").
- 3. Set "Output" field to high output ("High").
- 4. On models with two burners, select the "Cooking zone 1" field for burner 1.
- 5. Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates at maximum power.

6. Measure the exhaust gas values with an approved exhaust gas measuring device once the operating temperature is reached.

To regulate the cooking chamber temperature, open the cooking chamber door slightly.

7. Check whether the measured CO content is within the specified range (see "Unit and connection data").

If the CO content is not within the specified range, adjust the basic gas setting (see "Adjusting the basic gas setting").

8. On models with two burners: Repeat the procedure for the second burner.

9. Press the "Stop" button.

The flame extinguishes.

The burner is off.

10. Press the Back button twice.

The main menu appears.

- 11. Switch off the unit.
- 12. Fill out the start-up operation report.

6.8.6 Adjusting the basic gas setting

⚠ DANGER

Risk of personal injury and property 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 qualified personnel.

⚠ WARNING

Risk of poisoning from exhaust gases

- Ensure that exhaust gases are discharged properly and that the necessary amount of combustion air is supplied.
- Ensure that a maximum CO content of < 0.1 vol. % or < 1000 ppm is achieved in undiluted exhaust gas.

INFORMATION

Some measurements on the unit require it to be at opeating temperature.

 The operating temperature is reached when the temperature in the cooking chamber is between 130 °C (266 °F) — 180 °C (356 °F).

Adjusting the rated heat input under partial load

INFORMATION

The offset pressure can be measured as an adjustment aid at minimum output (see "Adjusting the basic gas setting"). This is not a substitute for making the basic gas setting.

Prerequisite Gas connection line connected

Checked for leaktightness outside the unit

Connection pressure checked

Checked for leaktightness inside the unit

Basic gas setting checked

Left side wall removed

→ If the rated heat input is checked and not OK: adjust the rated heat input.



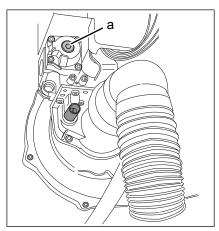


Image: Setting the rated heat input

- a Adjusting screw for minimum output (TX40)
- 1. Switch on the unit.
- 2. Open the *CO2 setting* display (see "Checking the basic gas setting").
- 3. Set "Output" field to low output ("Low").
- 4. On models with two burners, select the "Cooking zone 1" field for burner 1.
- 5. Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates under partial load.

6. Measure the exhaust gas values with an approved exhaust gas measuring device once the operating temperature is reached.

To regulate the cooking chamber temperature, open the cooking chamber door slightly.

- 7. Check whether the measured CO₂ content is within the specified range (see "Unit and connection data").
- 8. Using the adjusting screw for minimum output, adjust the CO₂ content to the specified range for low output (setting is very sensitive).

Turning counterclockwise: CO₂ content is decreased.

Turning clockwise: CO₂ content is increased.

9. Set "Output" field to high output ("High").

The unit operates at maximum power.

10. Check whether the measured ${\rm CO_2}$ content is within the specified range (see "Unit and connection data").

If necessary, repeat the adjustment procedure until the CO₂ value at high and at low output is within the specified range.

If the CO₂ level at high output is still outside the specified range, the rated heat input must be set manually (see "Adjusting the basic gas setting").

11.On models with two burners: Repeat the procedure for the second burner.



- 12. Check the waste gas values (see "Checking the basic gas setting").
- 13. Press the "Stop" button.

The flame extinguishes.

The burner is off.

14. Press the *Back* button twice.

The main menu appears.

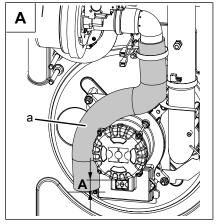
- 15. Switch off the unit.
- 16. Fill out the start-up operation report.

Adjusting the primary air quantity

⚠ DANGER

Risk of personal injury and property 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 qualified personnel.



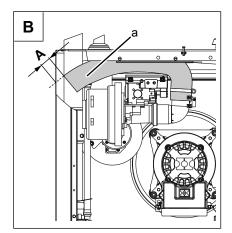


Image: A Sizes1XX and 2XX; B Size 6XX

- a Suction hose
- A Primary air gap

Prerequisite Gas connection line connected

Checked for leaktightness outside the unit

Connection pressure checked

Checked for leaktightness inside the unit

Left side wall removed

→ If the primary air quantity is checked and not OK, adjust the primary air quantity.



1. Check the position and condition of the suction hose.

If the suction hose is kinked, replace it.

If the suction hose is not installed in the manner and position shown in the figure, correct the installation.

If the suction hose is damaged, replace it.

If the opening of the suction hose is blocked, clean the suction hose.

- 2. Adjust the primary air gap to within the specified range (A) by aligning the suction hose (see "Unit and connection data").
- 3. Check the basic gas setting (see "Checking the basic gas setting").
- 4. On models with two burners: Repeat the procedure for the second burner.
- 5. Switch off the unit.
- 6. Fill out the commissioning report.

Manually adjusting the rated heat input

▲ DANGER

Risk of personal injury and property 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 qualified personnel.

INFORMATION

The offset pressure can be measured as an adjustment aid at minimum output (see "Adjusting the basic gas setting"). This is not a substitute for making the basic gas setting.

Prerequisite Gas connection line connected

Checked for leaktightness outside the unit

Connection pressure checked

Checked for leaktightness inside the unit

Basic gas setting checked

Left side wall removed

- 1. Remove the gas orifice (see "Converting the gas type").
- 2. Screw in the adjusting screw for maximum output 10 mm (0,39 in) (basic setting).
- 3. Manually adjust the rated heat input for minimum power.
- 4. Manually adjust the rated heat input for maximum power.



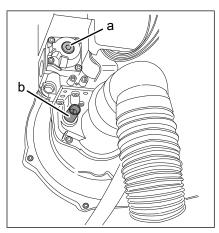


Image: Adjusting screws on the burner

- a Adjusting screw for minimum output (TX40)
- b Adjusting screw for maximum power (4 mm Allen key or 1.2 x 6.5 mm screwdriver)

Manually adjusting the rated heat input for minimum power

- 1. Switch on the unit.
- 2. Open the *CO2 setting* display (see "Checking the basic gas setting").
- 3. Set "Output" field to low output ("Low").
- On models with two burners, select the "Cooking zone 1" field for burner 1.
- 5. Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates under partial load.

6. Measure the exhaust gas values with an approved exhaust gas measuring device once the operating temperature is reached.

To regulate the cooking chamber temperature, open the cooking chamber door slightly.

- 7. Check whether the measured CO₂ content is within the specified range (see "Unit and connection data").
- 8. Using the adjusting screw for minimum output, adjust the CO₂ content to the specified range for low output (setting is very sensitive).

Turning counterclockwise: CO₂ content is decreased.

Turning clockwise: CO₂ content is increased.

If necessary, repeat the adjustment procedure for maximum power until the CO₂ value at maximum capacity and at minimum capacity is within the specified range.

- 9. On models with two burners: Repeat the procedure for the second burner.
- 10. Check the waste gas values (see "Checking the basic gas setting").



11. Press the "Stop" button.

The flame extinguishes.

The burner is off.

12. Press the Back button twice.

The main menu appears.

- 13. Switch off the unit.
- 14. Fill out the start-up operation report.

Manually adjusting the rated heat input for maximum power

- 1. Switch on the unit.
- 2. Set the unit to high output (see "Checking the basic gas setting"). The unit operates at maximum power.
- 3. Measure the exhaust gas values with an approved exhaust gas measuring device once the operating temperature is reached.

To regulate the cooking chamber temperature, open the cooking chamber door slightly.

- 4. Check whether the measured CO₂ content is within the specified range (see "Exhaust gas values").
- 5. Using the adjusting screw for maximum power, adjust the CO₂ content to the specified range for high output.

Turning counterclockwise: CO₂ content is increased.

Turning clockwise: CO₂ content is decreased.

If necessary, repeat the adjustment procedure for minimum power until the CO_2 value at maximum capacity and at minimum capacity is within the specified range.

- 6. On models with two burners: Repeat the procedure for the second burner.
- 7. Check the waste gas values (see "Checking the basic gas setting").
- 8. To end the CO₂ measurement press the *Back* button twice.

The main menu appears.

- 9. Switch off the unit.
- 10. Fill out the start-up operation report.

Checking the offset pressure

▲ DANGER

Risk of personal injury and property 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 qualified personnel.

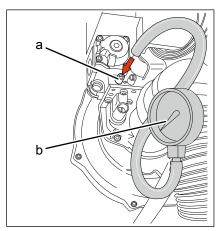


Image: Offset pressure

a Offset pressure measuring point

b Pressure measuring device

Prerequisite Basic gas setting checked and not OK

Gas connection line connected

Checked for leaktightness outside the unit

Connection pressure checked

Checked for leaktightness inside the unit

Left side wall removed

Measuring accuracy of the pressure measuring device at least 0,01 hPa (0,02 lbf/sqft)

- 1. Unscrew the sealing plug from the offset pressure measuring
- 2. Connect the pressure measuring device.
- 3. Switch on the unit.
- 4. Open the CO2 setting display (see "Checking the basic gas setting").
- 5. Set "Output" field to low output ("Low").
- 6. On models with two burners, select the "Cooking zone 1" field for burner 1.
- 7. Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates under partial load.

- 8. Measure the offset pressure.
- 9. Check whether the measured offset pressure is within the specified range (see "Unit and connection data").
- 10. Press the "Stop" button.

The flame extinguishes.

The burner is off.

11. Press the Back button twice.

The main menu appears.

- 12. Switch off the unit.
- 13. Disconnect the pressure measuring device.



- 14. Screw the sealing plug tightly into the offset pressure measuring nozzle.
- 15. Check for offset pressure measuring nozzle for leaks (see "Checking for leaks").
- 16. On models with two burners: Repeat the procedure for the second burner.
- 17. Fill out the Start-up operation report.

6.9 Converting the gas type

6.9.1 Changing the gas orifice

▲ DANGER

Risk of personal injury and property damage from electric shock

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

⚠ DANGER

Risk of explosion and fire from escaping gas

 When bleeding air from or degassing the gas system and the unit, ensure that the air and gas are discharged to the outside in a technically correct manner and without creating a risk.

⚠ DANGER

Risk of explosion or fire from operating the unit with the wrong gas type because of missing or incorrect gas type supplemental label

 When converting to a different gas type, replace the gas type supplemental label on the unit with the appropriate gas type supplemental label for the gas type available.

▲ DANGER

Risk of personal injury and property 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 qualified personnel.

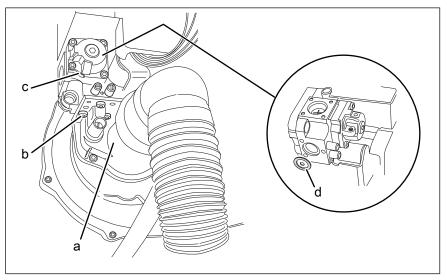


Image: Changing the gas orifice

- a Burner
- b Bolts (TX25)

- c Gas solenoid valve
- d Gas orifice with seal

Prerequisite Unit dead

Gas shut-off valve on the unit is closed

Left side wall removed

- 1. If the unit is already filled with gas, release gas the unit in a technically correct manner.
- 2. Unscrew the bolts from the gas solenoid valve.
- 3. Remove the gas solenoid valve.
- 4. Remove the gas orifice with seal.

A DANGER

Risk of asphyxiation and explosion from damaged seals

- · Check seals for damage
- · Replace damaged seals
- · Use only seals that are approved for use with gas
- 5. Select the gas orifice specified for the gas type available and insert the seal (see "Unit and connection data").
- 6. Replace the supplementary label for gas type on the unit with the appropriate supplementary label for the gas type available.
- 7. Replace the gas solenoid valve and secure it with the bolts.
- 8. On models with two burners: Repeat the procedure for the second burner.
- 9. Fill out the Start-up operation report.
- 10. Connect the unit to the gas connection line (see "Connecting the gas connection line").



NOTICE

Risk of physical damage from excessively high pressure

- When opening the gas shut-off valve on the unit, ensure that the pressure in the gas connection line is < 100 hPa (208,8 lbf/sqft).
- If the pressure is > 100 hPa (208,8 lbf/sqft), close the gas supply, reduce the pressure in a technically correct manner and notify the gas supplier.
- 11. Open the gas shut-off valve on the unit, while paying attention to the pressure in the gas connection line.

⚠ DANGER

Risk of explosion and fire from escaping gas

- When bleeding air from or degassing the gas system and the unit, ensure that the air and gas are discharged to the outside in a technically correct manner and without creating a risk.
- 12. Bleed the air from the gas system and unit in a technically correct manner.
- 13. Check for leaks outside the unit (see "Checking for leaks").

↑ WARNING

Risk of poisoning from exhaust gases

- Ensure that exhaust gases are discharged properly and that the necessary amount of combustion air is supplied.
- Ensure that a maximum CO content of < 0.1 vol. % or < 1000 ppm is achieved in undiluted exhaust gas.
- 14. Switch on the unit.
- 15. Check the connection pressure (see "Checking the connection pressure").
- 16. Check for leaks inside the unit (see "Checking for leaks").
- 17. Check the ignition behaviour (see "Checking the ignition behaviour").
- 18. Check the flame pattern (see "Checking the flame pattern").
- 19. Check the basic gas setting (see "Checking the basic gas setting").
- 20. Switch off the unit.
- 21. Close the housing (see "Opening and closing the housing").
- 22. Fill out the Start-up operation report.

6.10 Making the exhaust air connection

When installing the unit under a ventilation system, observe the regional regulations for air conditioning systems.

NOTICE

Risk of property damage from fouling of the outgoing air ducts

• Not connect the exhaust airline directly to the ventilation system.



NOTICE

Risk of corrosion damage from condensate

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

6.10.1 Connecting the exhaust air line

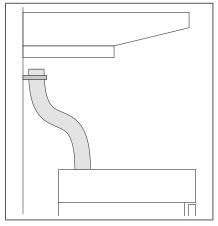


Image: Connecting the exhaust air line

Prerequisite The exhaust air line complies with the specifications (see "Unit and connection data")

- 1. Connect the exhaust air line to the steam outlet nozzle.
- 2. Route exhaust air line to the ventilation system with a 3° rise.
- 3. Fasten the end of the exhaust air line 50 mm (1,97 in) 200 mm (7,87 in) underneath the ventilation system.
- 4. Fill out the Start-up operation report.



7 Testing the function

DANGER

Risk of personal injury and property damage from unsuccessful operational check

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

Prerequisite Electrical connection made

Water connection made

Waste water connection made

Supply air and exhaust gas routing checked and switched on

Gas connection line connected

Checked for leaks outside the unit

Connection pressure checked

Checked for leaks inside the unit

Basic gas setting checked

Unit cleaned

7.1 Checking the exhaust gas routing for leaks

⚠ DANGER

Risk of personal injury and property 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 qualified personnel.

Prerequisite Left side wall removed

- 1. Switching on the unit
- 2. Switch on the unit and start any cooking program at maximum temperature (see operating instructions).

The burner ignites.

The flame burns stably.

The unit operates at maximum power.

- 3. Check exhaust gas-conducting parts for leaktightness with a condensation mirror or approved backflow testing device in a technically correct manner.
- 4. Check for problem-free exhaust gas routing at the flow control (only type B_{13BS} unit).
- 5. End the cooking program.

The flame extinguishes.

The burner is off.



- 6. Switch off the unit.
- 7. Fill out the Start-up operation report.

7.2 Checking the monitoring of the exhaust gas routing

- 1. Switching on the unit
- 2. Switch on the unit and start any cooking program at maximum temperature (see operating instructions).

The burner ignites.

The flame burns stably.

3. Switch off the ventilation.

The gas supply is blocked.

The flame extinguishes.

The burner is off.

The unit attempts to ignite.

The safety device trips after 1 second.

An error message appears on the display.

An audible signal sounds.

The monitoring of the exhaust gas routing is functioning.

- 4. Switch on the ventilation.
- 5. Acknowledge the error message by pressing the *Confirm* button.
- 6. The cooking program starts again.

The burner ignites within 5 seconds.

The flame burns stably.

7. Press the "Stop" button.

The cooking program ends.

The flame extinguishes.

The burner is off.

- 8. Switch off the unit.
- 9. Fill out the Start-up operation report.

7.3 Checking the ignition behaviour

▲ DANGER

Risk of personal injury and property 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 qualified personnel.

Prerequisite Left side wall removed

- 1. Switch on the unit.
- Open the CO2 setting display (see Checking the basic gas setting).
- 3. Set "Output" field to high output ("High").



- 4. On models with two burners, select the "Cooking zone 1" field for burner 1.
- 5. Press the "Start" button.

The burner ignites.

The flame burns stably.

6. Press the "Stop" button.

The flame extinguishes.

The burner is off.

- 7. Repeat the procedure several times.
- 8. On models with two burners: Repeat the procedure for the second burner.
- 9. Switch off the unit.
- 10. Fill out the start-up operation report.

7.4 Checking the flame monitoring

Prerequisite Ignition behaviour checked

- 1. Switch on the unit.
- 2. Open the *CO2 setting* display (see "Checking the basic gas setting").
- 3. Set "Output" field to high output ("High").
- 4. On models with two burners, select the "Cooking zone 1" field for burner 1.
- 5. Press the "Start" button.

The burner status "Gas request" appears in green.

The burner status "Flame detected" appears in green.

The unit operates at maximum power.

6. Close the gas shut-off valve on the unit.

The flame extinguishes.

The unit attempts to ignite 3 times.

The safety device trips.

An error message appears on the display.

An audible signal sounds.

The flame monitoring is functioning.

- 7. Open the gas shut-off valve on the unit.
- 8. Acknowledge the error message by pressing the *Confirm* button.
- 9. Press the "Start" button.

The burner ignites within 5 seconds.

The flame burns stably.

10. Press the "Stop" button.

The flame extinguishes.

The burner is off.

11.On models with two burners: Repeat the procedure for the second burner.



- 12. Switch off the unit.
- 13. Fill out the start-up operation report.

7.5 Checking the controls

Prerequisite Ignition behaviour checked

- 1. Switching on the unit
- 2. Select any cooking program (see operating instructions).

Set the cooking chamber temperature to a higher temperature than the current cooking chamber temperature.

3. Start cooking program.

The burner ignites.

The flame burns stably.

Once the set cooking chamber temperature is reached, the controls switch off the burner.

The flame extinguishes.

The burner is off.

The controls are functioning.

- 4. End the cooking program.
- 5. Switch off the unit.
- 6. Fill out the start-up operation report.

7.6 Checking the inspection of the cooking chamber door

- 1. Switching on the unit
- 2. Start any cooking program (see operating instructions).

The burner ignites.

The flame burns stably.

3. Open the cooking chamber door during operation.

The flame extinguishes.

The burner is off.

The fan comes to a stop.

The monitoring of the cooking chamber door is functioning.

- 4. Close the cooking chamber door.
- 5. Switch off the unit.
- 6. Fill out the Start-up operation report.



7.7 Heating and rinsing the unit

- 1. Switch on the unit.
- 2. Tap the "Manual cooking" button.
 - → The Manual cooking menu is displayed.
- 3. Run the unit in the Steaming mode for 15 minutes at 100 °C.
- 4. Rinse the cooking chamber thoroughly with clear water.
- 5. Run the unit in the convection mode for 5 minutes at 180 °C.
- 6. Open the cooking chamber door and leave it ajar until the unit is used again.
- 7. Fill out the start-up operation report.



8 Putting the unit into service

INFORMATION

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

Prerequisite Supply air and exhaust gas routing checked

Electrical connection made

Gas connection made

Water connection made

Waste water connection made

Exhaust air connection made (if required by the customer)

Function successfully tested

Housing closed

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

8.1 Nameplate

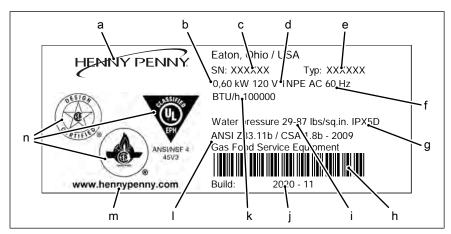


Image: Nameplate data

- a Manufacturer
- b Electrical connected load
- c Serial number
- d Type of connection

Protective system

- e Type number
- f Frequency

- h Barcode
- i Connection pressure for water
- j Year of manufacture
- k Gas connection value
- I Test criteria
- m Manufacturer's web address
- n Certificate



8.2 Filling out the commissioning report

General information			No
Information from the nameplate entered?			
SN: Typ:			
Gas connection value:			
Electrical connected load:			
Item-Nr.: (if pres	ent)		
Obvious damage to the unit? What and where?:			
Unit levelled?			
General in	formation	Yes	No
Unit fastened to floor?			
secured against tipping	secured against shifting	_	
Screwed to floor	Screwed to floor		
Glued to floor	Glued to floor		
Complex size and ass	havet man marking	Vaa	Na
Supply air and exhaust gas routing complies with re-		Yes	No
Supply air and exhaust gas routing complies with regulations?			Ш
Supply air and exhaust gas routing connected in a technically correct manner?			
Supply air and exhaust gas routing is functioning properly?			
Supply air and exhaust gas paths unobstructed?			
Unit connected to monitoring of the exhaust gas routing in a technically correct manner?			
The monitoring of the exhaust gas routing is functioning?			
Electrical (connection	Yes	No
Electrical connection made properly?	3311116311631		
Potential equalization	Power optimization system		
Potential-free contact			
Electrical connections made properly?			
Fault current device connected directly before this unit?			
Fault current device connected before this and other units?			
Supply voltage measured? Supply voltage: (V)			Ш
Set transformer voltage			
-	red V		
T1: blue 0 V red V; T2/T3: blue V r	<u> </u>		

Putting the unit into service

Kitchen guiding system		Yes	No
Kitchen guiding system connected properly?			
Basic setting	of the control	Yes	No
Temperature unit set?			
□°c	□°F	_	_
Date and time set?			
Software version identified?			
Version:			
Altitude set?			
0 — 999 m (3277 ft)	1000 m (3280 ft) — 1999 m (6557 ft)		
2000 m (6560 ft) — 2499 m (8197 ft)	2500 m (8200 ft) or higher		
Audible signal volume set?			
Low	High		
Signal tone selected?			
Volume unit set?			
<u></u> ml	fl.oz. (Imperial)		
fl.oz. (U.S.)			
Water filter maintenance set?			
No maintenance message	Maintenance message at:		
Network configuration set?			
DHCP	IP address:	_	
Subnet mask: Gateway:			
Kitchen guiding system set?			
Active	Disabled		_
Ethernet	Serial		
TCP port:	Unit address:		
Unit address:			
Water co	onnection	Yes	No
Connection pressure within indicated range?			
Connection pressure:	kPa (psi)		
Water connection made properly?			
Lines and connections leak-tight?			
Water connections connected with T-piece?			
Connected only to softened drinking water	Connected only to drinking water		



Gas connection			No
Does the information on the gas type supplemental label match the gas type available?			
Information from the gas type supplemental label entered?			
Natural gas E/H, G20, 20 hPa (41,8 lbf/sqft)	Liquefied gas P, G31, 37 hPa (77,2 lbf/sqft)		
Natural gas LL/L, G25, 20 hPa (41,8 lbf/sqft)	Liquefied gas B/P, G30/G31, 50 hPa (104,4		
Natural gas L, G25, 25 hPa (52,2 lbf/sqft)	lbf/sqft)		
Natural gas K, G25.3, 25 hPa (52,2 lbf/sqft)	Liquefied gas B/P, G30/G31, 30 hPa (62,6 lbf/ sqft)		
Natural gas E+, G20/G25, 20 hPa (41,8 lbf/sqft)/25 hPa (52,2 lbf/sqft)	Liquefied gas LP, gas B/P, G30/G31, 28 hPa (58,5 lbf/sqft)		
Natural gas 13A, G21, 20 hPa (41,8 lbf/sqft)	Liquefied gas B/P, Gas E, 30 hPa (62,6 lbf/		
Natural gas A, 20 hPa (41,8 lbf/sqft)	sqft)		
Natural gas G20, NG174, NGN, 20 hPa (41,8 lbf/sqft)	Liquefied gas B/P, G30/G31, FL50, BP29, PX275, 50 hPa (104,4 lbf/sqft)		
Other gas type: hPa (lbf/sqft)	Connection pressure:		
Is gas connection made in a technically correct man	ner?		
Dimension of gas connection at the unit:	mm or inches		
Dimension of gas connection line at the wall : mm or inches			
Is the thermally activated shut-off installed?			
Is the gas connection line leak-free?			
Are gas-conducting parts inside the unit leak-free?			
Connection pressure OK (right side port on gas valve	a "a")2		
Connection pressure OK (right side port on gas valve "a")?			
Connection pressure:	hPa (lbf/sqft)		

Gas connection			No
Offset pressure OK? (Left side port on gas valve "a"	a Pa (lbf/sqft)		
Are exhaust gas values at full load OK?	·		
Measured CO ₂ :	Set CO ₂ : Vol % Set CO: ppm		
Are exhaust gas values at partial load OK?			
Measured CO ₂ : Vol % Measured CO:	Set CO ₂ : Vol % Set CO:		
ppm	ppm		
Conversion of gas type (if necessary)			No
Burner nozzle / gas orifice replaced?			
Before conversion:	After conversion:	_	
Number of nozzles / gas orifices:	Number of nozzles / gas orifices:		
Coefficient: Coefficient:			
Has the appropriate gas type supplemental label been attached after conversion?			
Has information from the gas type supplemental label been entered after conversion?			
Natural gas E/H, G20, 20 hPa (41,8 lbf/sqft)	Liquefied gas P, G31, 37 hPa (77,2 lbf/sqft)		
Natural gas LL/L, G25, 20 hPa (41,8 lbf/sqft)	Liquefied gas B/P, G30/G31, 50 hPa (104,4 lbf/sqft)		
Natural gas L, G25, 25 hPa (52,2 lbf/sqft) Natural gas K, G25.3, 25 hPa (52,2 lbf/sqft)	Liquefied gas B/P, G30/G31, 30 hPa (62,6 lbf/		
Natural gas E+, G20/G25, 20 hPa (41,8 lbf/	sqft)		
sqft)/25 hPa (52,2 lbf/sqft)	Liquefied gas LP, gas B/P, G30/G31, 28 hPa (58,5 lbf/sqft)		
Natural gas 13A, G21, 20 hPa (41,8 lbf/sqft) Natural gas A, 20 hPa (41,8 lbf/sqft)	Liquefied gas B/P, Gas E, 30 hPa (62,6 lbf/sqft)		
Natural gas G20, NG174, NGN, 20 hPa (41,8	Liquefied gas B/P, G30/G31, FL50, BP29,		
lbf/sqft)	PX275, 50 hPa (104,4 lbf/sqft)		
Other gas type:hPa (lbf/sqft) Connection pressure:			

Exhaust air connection			Yes	No	
Installation under ventilation	system?				
Connected to outgoing air du	ct?				
Connection size of exhaust a	ir line:	mm (in)			
Length of exhaust air line:		mm (in)			
	Function ched	ck		Yes	No
Controls functioning?					
Exhaust gas routing is function	oning properly?				
Exhaust gas routing is leak-fi	ree?				
The monitoring of the exhaus	st gas routing is functioning?				
Ignition behaviour OK?					
Flame monitoring is functioni	ng?				
Monitoring of cooking chamb	er door functioning?				
Unit heated and rinsed?					
	Final notes			Yes	No
Was the unit put into service					
Comments:					
Operator trained?					
Electrical installation was ma	de by:				
			Signature		
Company	Installation fitter	Place, date			
The connection to a kitchen	guiding system was made by:				
Signature					
Company Installation fitter Place, date					
Water installation was made	by:				
Signature					
Company Installation fitter Place, date					
Wastewater installation was	made by:				



Putting the unit into service

Company	Installation fitter	Place, date	Signature	
			Į.	
The gas was connected by:				
			Signature	
Company	Installation fitter	Place, date		
		,	,	
Exhaust air connection was m	nade by:			
			Signature	
Company	Installation fitter	Place, date		
Function check was made by	:			
			Signature	
Company	Installation fitter	Place, date		
Operator was trained by:				
			Signature	
Company	Installation fitter	Place, date		





Henny Penny Corporation P.O.Box 60 Eaton,OH 45320 USA

Phone +1 937 456-8400 Fax +1 937 456-8402

Toll free in USA Phone +1 937 417-8417 Fax +1 937 417-8434

www.hennypenny.com

