

Combi steamer

Project _____
 Item _____
 Quantity _____
 FCSI section _____
 Approval _____
 Date _____

Model

Convotherm 4 easyDial

- easyDial
- 20 Shelves GN 2/1
- Gas
- Injection/Spritzer
- Disappearing door



Key features

- ACS+ operating modes: Steam, Combi-steam, Convection
- ACS+ Extra Functions:
 - Crisp&Tasty – 5 moisture-removal settings
 - BakePro – 5 levels of traditional baking
 - HumidityPro – 5 humidity settings
 - Controllable fan – 5 speed settings
- easyDial: all functions can be set on one operating level
- Semi-automatic cleaning system
- HygienicCare
- USB port integrated in the control panel
- TriColor indicator ring – indicates the current operating status
- Steam generated by injecting water into the cooking chamber
- Disappearing door: more space and greater safety at work (optionally available for an extra charge)

Standard features

- ACS+ (Advanced Closed System +) operating modes:
 - Steam (30-130°C) with guaranteed steam saturation
 - Combi-steam (30-250°C) with automatic humidity adjustment
 - Convection (30-250°C) with optimized heat transfer
- HygienicCare – food safety thanks to antibacterial surfaces:
 - easyDial control panel
 - Door handle and recoil hand shower
- easyDial user interface:
 - Central control unit, Convotherm-Dial (C-Dial)
 - Digital display
 - Regenerating function – regenerates products to their peak level
 - 99 cooking profiles each with up to 9 steps
- Multi-point core temperature probe
- Door handle with safety latch
- Built-in preheat bridge
- Data storage for HACCP and pasteurization figures
- Preheat and cool down function

Options

- ConvoClean fully automatic cleaning system – including optional single-measure dispensing
- Prison version
- Ethernet interface (LAN)
- Available in various voltages
- Sous-vide probe, external connection
- Core temperature probe, external connection

Accessories

- ConvoLink – HACCP and cooking profile management PC software
- Signal tower – external operating-state indicator
- Banquet system (optionally as a package or individually): Plate loading trolley, loading trolley, thermal cover
- Care products for the ConvoClean fully automatic cleaning system (multiple and single-measure dispensing) and for semi-automatic oven cleaning

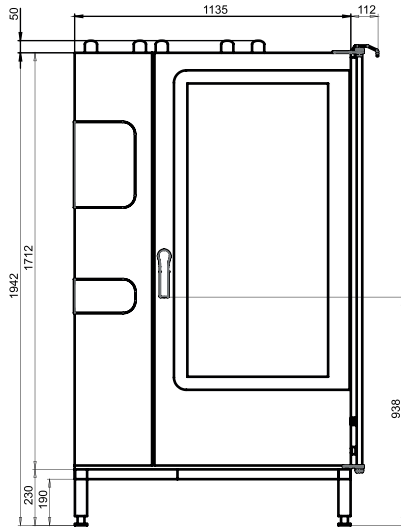


Dimensions

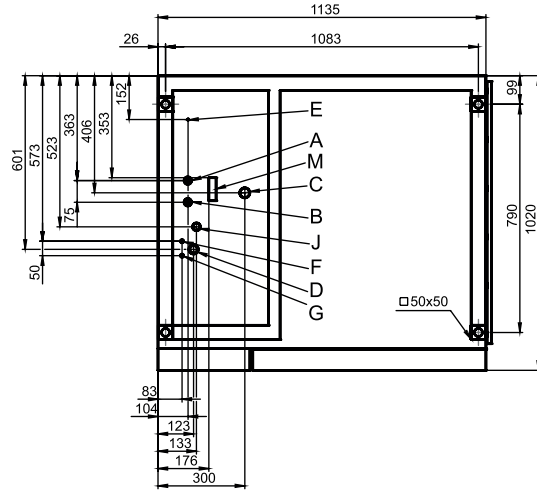
Weights

Views

Front view

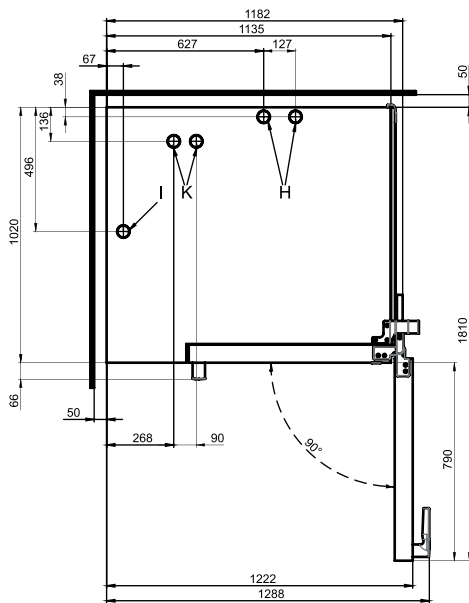


Connection positions



- A** Water connection (for water injection)
- B** Water connection (for cleaning, recoil hand shower)
- C** Drain connection DN 50
- D** Electrical connection
- E** Equipotential bonding
- F** Rinse-aid connection
- G** Cleaning-agent connection
- H** Air vent Ø 50 mm
- I** Ventilation port Ø 50 mm
- J** Gas supply
- K** Exhaust outlet (cooking-chamber convection heater)
- M** Safety overflow 80 mm x 25 mm

View from above with wall clearances



Installation instructions

Absolute tilt of unit in operation* max. 2° (3.5%)

* Adjustable feet included as standard.

Dimensions and weights

Dimensions including packaging

Width x Height x Depth 1410 x 1942 x 1170 mm

Weight

Empty weight without options* / accessories 366 kg

Weight of packaging 48 kg

Safety clearances**

Rear 50 mm

Right-hand side (disappearing door pushed back) 160 mm

Left (larger gap recommended for servicing) 50 mm

Top*** 1000 mm

* Weight of options 10 kg max.

** Minimum distance from heat sources: 500 mm.

*** Depends on type of air ventilation system and nature of ceiling.

Loading capacity

Max. number of food containers

GN 1/1*	40
GN 2/1*	20
Plates max. Ø 32 cm, Ring spacing 66 mm**	122
Plates max. Ø 32 cm, Ring spacing 79 mm**	98

Maximum loading weight

GN 1/1 / 600 x 400	
Per combi steamer	180 kg
Per shelf level	15 kg

* Matching loading trolley included as standard.

** Matching loading trolley available as an accessory.

Electrical supply

1N~ 230V 50/60Hz

Rated power consumption	1.1 kW
Rated current	4.3 A
Fuse	16 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section*	3G2.5

1N~ 100V 50/60Hz

Rated power consumption	1.0 kW
Rated current	9.8 A
Fuse	16 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section*	3G2.5

* Recommended conductor cross-section for wires laid uncovered in air up to 5 m in length.

Water connection

Water supply

Water supply	2 x G 3/4" permanent connection, optionally including connecting pipe (min. DN13 / 1/2")
Flow pressure	150 - 600 kPa (1.5 - 6 bar)

Appliance drain

Drain version	Permanent connection (recommended) or open tank or channel/gully
Type	DN50 (min. internal Ø: 46 mm)
Slope for waste-water pipe	min. 3.5% (2°)

Water quality

Water-supply connection A* for water injection

General requirements	Drinking water, typically soft water (install water treatment system if necessary)
Total hardness	4 - 7 °dh / 70 - 125 ppm / 7 - 13 °TH / 5 - 9 °e

Water-supply connection B* for cleaning, recoil hand shower

General requirements	Drinking water, typically hard water
Total hardness	4 - 20 °dh / 70 - 360 ppm / 7 - 35 °TH / 5 - 25 °e

Water-supply connections A, B*

pH value	6.5 - 8.5
Cl ⁻ (chloride)	max. 60 mg/l
Cl ₂ (free chlorine)	max. 0.2 mg/l
SO ₄ ²⁻ (sulphate)	max. 150 mg/l
Fe (iron)	max. 0.1 mg/l
Temperature	max. 40 °C
Electrical conductivity	min. 20 µS/cm

* See diagram of connection positions, page 2.

Water consumption

Water-supply connection A*

Ø Consumption for cooking	11.8 l/h
Max. consumption	0.6 l/min

Water-supply connections A, B

Ø Consumption for cooking**	17.7 l/h
Max. water flow rate	15 l/min

* Values for selecting the capacity of the water treatment system.

** Including water used for cooling the wastewater.

PLEASE NOTE: See diagram of connection positions, page 2.

Emissions

Heat output

Latent heat	12200 kJ/h / 3.39 kW
Sensible heat	15400 kJ/h / 4.28 kW

Waste water temperature	max. 80 °C
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Noise during operation	max. 70 dBA
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Gas data

Fuels	Natural gas, liquid gas
Exhaust gas duct	Air conditioning system with safety shutdown
Connection to gas supply	R 3/4"

Supply flow pressure (CE compliant)

Natural gas 2H (E)	17 - 25 mbar
Natural gas 2L (LL)	18 - 30 mbar
Liquid gas 3B/P	20 - 57.5 mbar
Propane 3P	25 - 57.5 mbar

Heat output

Natural gas 2H (E)	
Convection burner	62 kW
Natural gas 2L (LL)	
Convection burner	60 kW
Propane 3P*	
Convection burner	62 kW

Gas consumption

Natural gas 2H (E)	6.6 m ³ /h
Natural gas 2L (LL)	7.6 m ³ /h
Propane 3P / Liquid gas 3B/P	4.8 kg/h

Exhaust gas output rate

Natural gas, liquid gas	max. 286 m ³ /h
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* The heat output is up to 15% higher with 3B/P liquid gas.

Please observe the following points:

- This document is to be used solely for planning purposes.
- Please refer to the Installation Manual for further technical data and guidance on installation and positioning.