

# Combi oven

C4eD 20.10 EB DD Marine

## Model

Convotherm 4 easyDial, Marine

- easyDial
- 20 Shelves GN 1/1
- Electric
- Boiler
- Disappearing door



## Key features

- ACS+ operating modes: Steam, Combi-steam, Convection
- ACS+ extra functions:
  - Crisp&Tasty / HumidityPro – each with 5 levels of humidity control
  - BakePro – 5 levels of traditional baking
  - Controllable fan – 5 speed settings
- easyDial: all functions are set in 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 high-performance boiler outside the cooking chamber
- Disappearing door with door latch: more space and greater safety at work (optionally available for an extra charge)
- Marine feet with flange plate for screwing or welding to the supporting surface

## 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
  - Hot air (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 containing up to 9 steps
- Multi-point core temperature probe
- Door handle with safety latch
- Integral preheat bridge
- Data storage for HACCP and pasteurization figures
- Preheat and cool down function

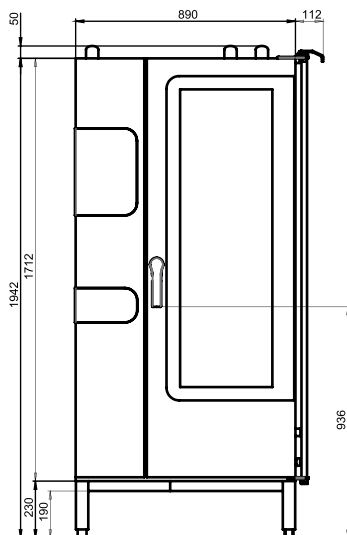
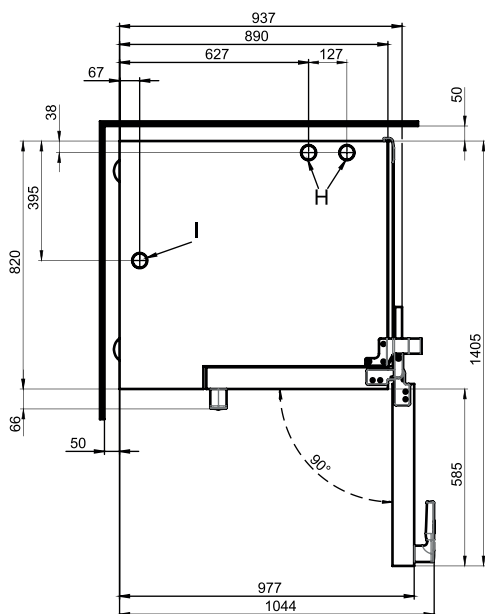
## Options

- ConvoClean fully automatic cleaning system – including optional single-measure dispensing
- Steam and vapour removal – built-in condensation module (on request)
- 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

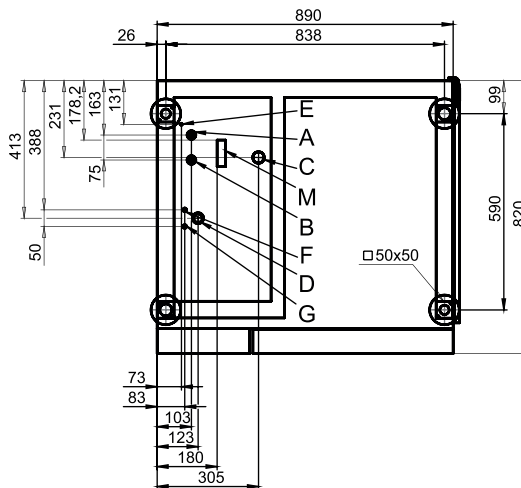


**Front view**

**View from above with wall clearances**


## Installation instructions

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

\* Adjustable feet included as standard.

**Connection points**


- A Water connection (for boiler)
- 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
- M Safety overflow 80 mm x 25 mm

## Dimensions and weights

Dimensions including packaging	
Width x Height x Depth	1165 x 2150 x 970 mm
Weight	
Empty weight without options* / accessories	285 kg
Weight of packaging	40 kg
Safety clearances**	
Rear	50 mm
Right-hand side (disappearing door pushed back)	160 mm
Left (larger gap recommended for servicing)	50 mm
Top***	500 mm

\* Weight of options 15 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*	20
600 x 400** baking tray	17
Plates max. Ø 32 cm, Ring spacing 66 mm**	61
Plates max. Ø 32 cm, Ring spacing 79 mm**	50
Maximum loading weight	
GN 1/1 / 600 x 400	
Per combi oven	100 kg
Per shelf level	15 kg

\* Matching loading trolley included as standard.

\*\* Matching loading trolley available as an accessory.

## Electrical supply

3~ 230V 50/60Hz*	
Rated power consumption	38.2 kW
Rated current	96.0 A
Fuse rating	100 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section	4G35
3~ 400V 50/60Hz (also available as 3N~ 400V 50/60Hz)*	
Rated power consumption	38.9 kW
Rated current	56.2 A
Fuse rating	63 A
RCD (GFCI), three-phase frequency converter	Type B/F (recommended)
Recommended conductor cross-section	5G16
3~ 440V 50/60Hz*	
Rated power consumption	32.6 kW
Rated current	42.8 A
Fuse rating	50 A
RCD (GFCI), three-phase frequency converter	Type B/F (recommended)
Recommended conductor cross-section	4G16
3~ 480V 50/60Hz*	
Rated power consumption	38.6 kW
Rated current	46.5 A
Fuse rating	50 A
RCD (GFCI), three-phase frequency converter	Type B/F (recommended)
Recommended conductor cross-section	4G16

\* Connection to energy optimization system included as standard.

## Water connection

Water supply	
Water supply*	2 x G 3/4" fixed connection, optionally including connecting pipe (min. DN13 / 1/2")
Flow pressure	150 - 600 kPa (1.5 - 6 bar)
Appliance drain	
Drain version	Fixed connection (recommended) or open tank or channel/gully
Type	DN50 (min. internal Ø: 46 mm)
Slope for waste-water pipe	min. 3.5% (2°)

\* Install a backflow preventer approved by the manufacturer if stipulated by the relevant standards and regulations.

## Water quality

Water-supply connection A* for boiler, Water-supply connection B* for cleaning, recoil hand shower	
General requirements	Drinking water, typically hard water
General hardness	4 - 20 °dh / 70 - 360 ppm / 7 - 35 °TH / 5 - 25 °e
pH value	6.5 - 8.5
Cl <sup>-</sup> (chloride)	max. 60 mg/l
Cl <sub>2</sub> (free chlorine)	max. 0.2 mg/l
SO <sub>4</sub> <sup>2-</sup> (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 points, page 2.

## Water consumption

Water-supply connections A, B	
Ø Consumption for cooking**	9.9 l/h
Max. water flow rate	15 l/min

\*\* Including water used for cooling the wastewater.

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

## Emissions

Dissipated heat	
Latent heat	6900 kJ/h / 1.92 kW
Sensible heat	8900 kJ/h / 2.47 kW
Waste water temperature	max. 80 °C
Noise during operation	max. 70 dBA

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.