#### Proiect **Convo**therm Item Quantity FCSI section **Combi Steamer** Approval Date easyTouch Electric Model 12 Shelves GN 2/1 Injection Convotherm 4 easyTouch **Right-hinged door Essential Features** ACS+ (Advanced Closed System +) operating modes: Steam, Combi-steam, Convection ACS+ Extra Functions: Crisp&Tasty - 5 moisture-removal settings $^{\circ}$ $\,$ BakePro – 5 levels of traditional baking HumidityPro - 5 humidity settings Controllable fan – 5 speed settings easyTouch 9" full-touch screen ConvoClean+ fully automated cleaning system with eco, express and regular modes, including optional single-measure dispensing Ethernet / LAN interface HygienicCare Press &Go USB port integrated in the control panel TriColor indicator ring - indicates the current operating status Steam generated by injecting water into the cooking chamber **Right-hinged appliance door** Standard Equipment Options

- ACS+ operating modes:
  - <sup>o</sup> Steam (30-130°C) with guaranteed steam saturation
  - Combi-steam (30-250°C) with automatic humidity adjustment
  - Ο Convection (30-250°C) with optimized heat transfer
  - HygienicCare: safety through antibacterial surfaces
  - easyTouch control panel
  - 0 Door handle and recoil hand shower
- easyTouch user interface:
  - 0 Full 9" full-touch screen
  - <sup>o</sup> Press&Go automatic cooking using quick-select buttons
  - 0 TrayTimer - load management for different products at the same time
  - 0 Regenerate+ - versatile regenerating function with preselect
  - 0 ecoCooking - energy-save function
  - 0 Low-temperature cooking / Delta-T cooking
  - 0 Cook&Hold - cooking and holding in one process
  - 0 399 cooking profiles containing up to 20 steps
  - 0 On-screen Help with topic-based video function
  - 0 Starting time preselect
- Multi-point core temperature sensor
- Door handle with safety latch .
- Built-in preheat bridge
- RS232 and RS485 interface
- Data storage for HACCP and pasteurization figures
- Preheat and Cool down function .

- Steam and vapour removal (built-in condensation hood)
- Ship model
- Available in various voltages
- Sous-vide sensor, with external socket
- Core temperature sensor, with external socket

- Accessories
- ConvoLink HACCP and cooking-profile management PC software
- ConvoVent 4 / ConvoVent 4+ condensation hoods
- Signal tower indicates the current operating status at a distance
- Banquet system (optionally as a package or individually)
  - Plate loading trolley
  - Loading trolley
  - Thermal cover
- Care products

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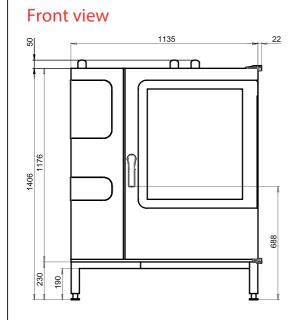


#### **Dimensions**

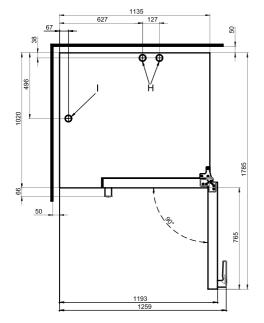
Weights

Views

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## View from above with wall clearances



# Installation instructions

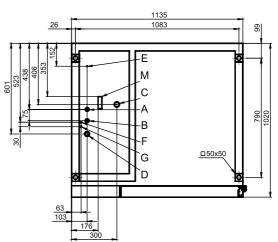
Absolute tilt of appliance in operation\*

#### Tilt

max. 2° (3.4%)

\*Adjustable appliance feet included as standard to compensate for any differences in level across the mounting surface.

# Connection positions in appliance floor



- A Soft-water connection G 3/4"
- B Hard-water connection G 3/4"
- C Drain connection DN 50
- D Electrical supply
- E Equipotential bonding
- F Nozzle-detergent connection
- **G** Cleaning-fluid 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	1435 mm
Depth	1200 mm
Height	1650 mm
Weight including packaging	
Including cleaning system	kg
Safety clearances*	
Rear	50 mm
Right	50 mm
Left (larger gap recommended for servicing)	50 mm
Top (for ventilation)	500 mm

\*Heat sources must lie at a minimum distance of 50 cm from the appliance.



## Loading capacity

Max. number of food containers	
GN 1/1 (with standard loading trolley)	24
GN 2/1 (with standard loading trolley)	12
Plates max. Ø 32 cm, Ring spacing 66 mm	74
Plates max. Ø 32 cm, Ring spacing 79 mm	59
Maximum loading weight	
GN 1/1 / 600 x 400	
Per combi steamer	120 kg
Per shelf	15 kg

#### **Electrical supply**

3N~ 400V 50/60Hz (3/N/PE)*	
Rated power consumption	33.7 kW
Rated current	48.7 A
Fuse	50 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section**	5G16
3~ 230V 50/60Hz (3/PE)*	
Rated power consumption	33.4 kW
Rated current	84.0 A
Fuse	100 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section**	4G35
3~ 200V 50/60Hz (3/PE)*	
Rated power consumption	33.4 kW
Rated current	96.6 A
Fuse	100 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section**	4G35

\*Connection to an energy optimization system as standard.

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

# Loading

#### **Electrical supply**

Water

#### Water connection

Water supply	
Water supply	$2 \times G 3/4$ " 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 (recommen- ded) or open tank or channel/gully
Туре	DN50 (min. internal Ø: 46 mm)
Slope for waste-water pipe	min. 5% (3°)

## Water quality

Water quality	Drinking water (install water treatment system if necessary)
	Treated tap water for water injection
	Untreated tap water for cleaning, recoil hand shower
Total hardness	
Injection (soft water)	4 - 7 °dh / 70 - 125 ppm / 7 - 13 °TH / 5 - 9 °e
Cleaning, recoil hand shower (hard water)	4 - 20 °dh / 70 - 360 ppm / 7 - 35 °TH / 5 - 25 °e
Properties	
рН	6.5 - 8.5
Cl⁻ (chloride)	max. 100 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

#### Water consumption

Cooking (total)	
Ø consumption	13.3 l/h
Max. water flow rate	15 l/min
<b>Cooking</b> (values for selecting the capacity of the water treatment system)	
Ø consumption (water 4-7 °dh)	8.8 l/h
Max. consumption (water 4-7 °dh)	0.6 l/min



## **Emissions**

Accessories

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# Emissions

Heat output	
Latent heat	6900 kJ/h / 1.92 kW
Sensible heat	7800 kJ/h / 2.17 kW
Waste water temperature	max. 80 °C
Noise during operation	max. 70 dBA
Waste water temperature	max. 80 °C

Please observe the following points:

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

Convotherm Elektrogeräte GmbH Ovens & Advanced Cooking EMEA Manitowoc Foodservice

