

# Combi steamer

Project \_\_\_\_\_  
 Item \_\_\_\_\_  
 Quantity \_\_\_\_\_  
 FCSI section \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Date \_\_\_\_\_

## Model

Convotherm 4 easyTouch

- easyTouch
- 20 Shelves GN 2/1
- Electric
- Spritzer / Injection
- Right-hinged door



## Essential Features

- ACS+ (Advanced Closed System +) operating modes: Steam, Combi-steam, Convection
- ACS+ Extra Functions:
  - Crisp&Tasty (5 levels of moisture removal)
  - BakePro (5 levels for the traditional baking function)
  - HumidityPro (5 levels of humidification)
  - Adjustable fan speed (5 levels)
- easyTouch full 9" touchscreen
- ConvoClean+ cleaning system with eco, regular and express modes (fully automatic operation with multi-measure dispensing; automatic operation with single-measure dispensing)
- Ethernet / LAN interface
- HygienicCare Concept
- USB port integrated in the control panel
- TriColor indicator ring - indicates the current operating status
- Steam generated by injecting water into the cooking chamber

## Standard Equipment

- ACS+ 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 Concept - food safety thanks to antibacterial surfaces:
  - easyTouch control panel
  - Door handle and recoil hand shower
- easyTouch user interface:
  - Full 9" touchscreen
  - Press&Go (automatic cooking)
  - TrayTimer (load management for different products at the same time)
  - Regenerate+ (flexible regenerating function with preselect)
  - ecoCooking (energy-save function)
  - Low-temperature cooking / Delta-T cooking
  - Cook&Hold
  - Up to 399 cooking profiles each with up to 20 steps
  - On-screen Help with video function
  - 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

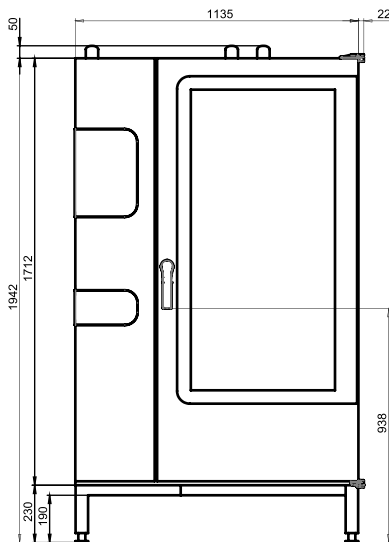
## Options

- Steam and vapor removal (built-in condensation hood)
- Ship model
- Range of voltages
- Sous-vide sensor, with external socket
- Core temperature sensor – external socket

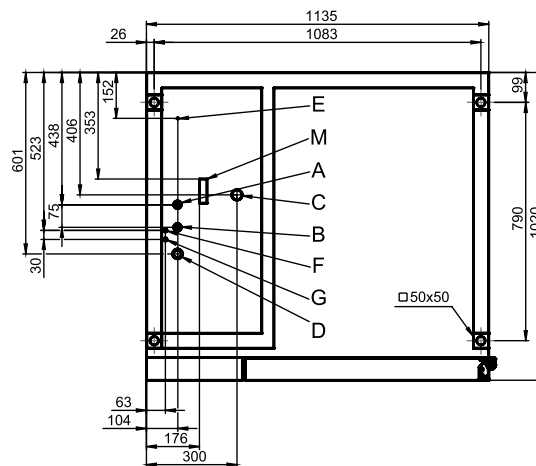
## Accessories

- ConvoConnect appliance manager PC software
- ConvoVent 4 / ConvoVent 4+ condensation hoods
- Indicator tower for showing the operating status
- Banquet system (optionally as a package or individually)
  - Plate loading trolley
  - Loading trolley
  - Thermal cover
- Care products

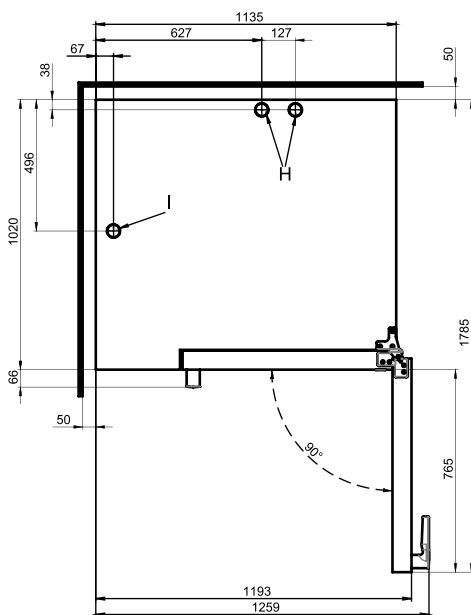
**Front view**



**Connection positions in appliance floor**



**View from above with wall clearances**



- 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	2185 mm

**Weight including packaging**

Including cleaning system	382 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.

**Installation instructions**

**Tilt**

Absolute tilt of appliance in operation\* max. 2° (3.4%)

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

### Loading capacity

#### No. of shelves

GN 1/1 (with standard loading trolley)	40
GN 2/1 (with standard loading trolley)	20
Plates max. Ø 32 cm, Ring spacing 66 mm	122
Plates max. Ø 32 cm, Ring spacing 79 mm	98

#### Maximum permissible loading weight

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

### Electrical connected load ratings

#### 3N~ 400V 50/60Hz (3/N/PE)\*

Rated power consumption	67.3 kW
Rated current	97.3 A
Fuse	100 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section**	5G35

#### 3~ 230V 50/60Hz (3/PE)\*

Rated power consumption	66.4 kW
Rated current	166.9 A
Fuse	200 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section**	4G70

#### 3~ 200V 50/60Hz (3/PE)\*

Rated power consumption	66.4 kW
Rated current	191,9 A
Fuse	200 A
RCD (GFCI), frequency converter (single phase)	Type A (recommended), type B/F (optional)
Recommended conductor cross-section**	4G95

\*Connection to an energy optimization system as standard.

\*\*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. 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

pH	6.5 - 8.5
Cl <sup>-</sup>	max. 100 mg/l
Cl <sub>2</sub>	max. 0.2 mg/l
SO <sub>4</sub> <sup>2-</sup>	max. 150 mg/l
Fe	max. 0.1 mg/l
Temperature	max. 40 °C
Electrical conductivity	min. 20 µS/cm

### Water consumption

#### Cooking (total)

Ø consumption	17.7 l/h
Max. water flow rate	15 l/min

#### Cooking (values for selecting the capacity of the water treatment system)

Ø consumption (water 4-7 °dh)	11.8 l/h
Max. consumption (water 4-7 °dh)	0.6 l/min

**Emissions****Heat output**

Latent heat 11000 kJ/h / 3.06 kW

Sensible heat 14100 kJ/h / 3.92 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 instructions for further technical data and guidance on installation and positioning.