

Combi steamer

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

C4eD 12.20 EB

Model

Convotherm 4 easyDial

- easyDial
- 12 Shelves GN 2/1
- Electric
- Boiler
- 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)
- easyDial: all functions can be set on one operating level
- Semi-automatic cleaning system
- HygienicCare Concept
- 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
- Right-hinged appliance door

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:
 - easyDial control panel
 - Door handle and recoil hand shower
- easyDial user interface:
 - Central control unit, Convotherm Dial (C-Dial)
 - Digital display
 - Regenerating function: Regenerate products to their peak level
 - Up to 99 cooking profiles each with up to 9 steps
- 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

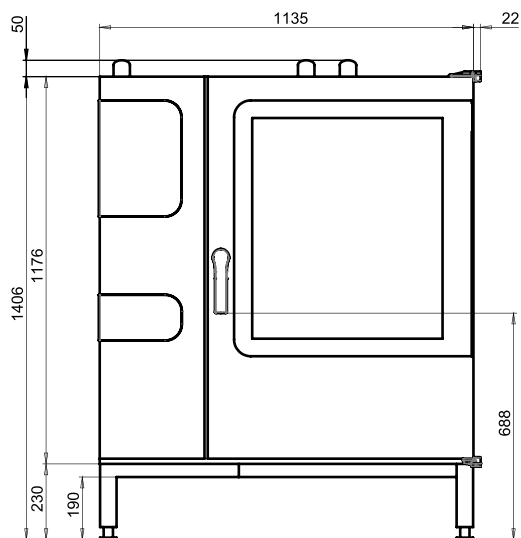
Options

- ConvoClean cleaning system (fully automatic operation with multi-measure dispensing; automatic operation with single-measure dispensing)
- Steam and vapor removal (built-in condensation hood)
- Ship model
- Ethernet / LAN interface
- Range of voltages
- Sous-vide sensor, with external socket
- Core temperature sensor – external socket

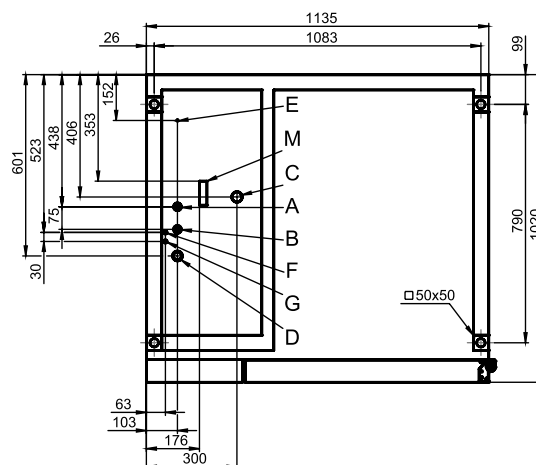
Accessories

- 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

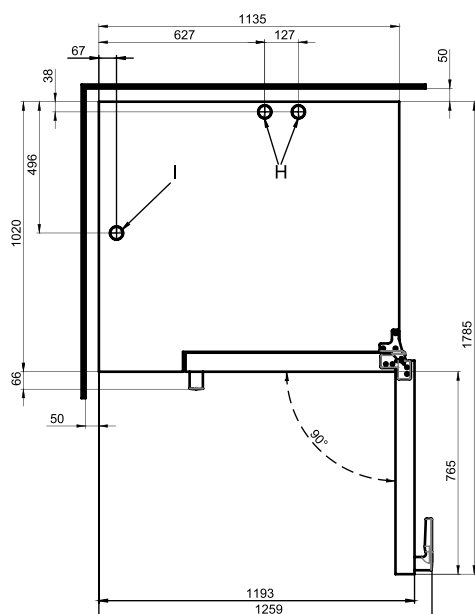
Front view



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 | 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.

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) | 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 permissible loading weight

| | |
|--------------------|--------|
| GN 1/1 / 600 x 400 | |
| Per combi steamer | 120 kg |
| Per shelf | 15 kg |

Electrical connected load ratings

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.

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 |
|----------------------|----------------|

Total hardness

| | |
|--------------------------------------|--|
| Cleaning, recoil hand shower, boiler | 4 - 20 °dh / 70 - 360 ppm / 7 - 35 °TH / 5 - 25 °e |
|--------------------------------------|--|

Properties

| | |
|-------------------------------|---------------|
| pH | 6.5 - 8.5 |
| Cl ⁻ | max. 100 mg/l |
| Cl ₂ | max. 0.2 mg/l |
| SO ₄ ²⁻ | 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 | 10.5 l/h |
| Max. water flow rate | 15 l/min |

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

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.

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