

Combi steamer

Project
Item
Quantity
FCSI section
Approval
Date

Model

Convotherm 4 easyDial

- easyDial
- 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)
 - O 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
 - O 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 singlemeasure 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

Manıtowoc

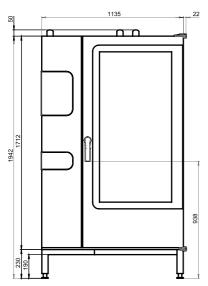


Dimensions

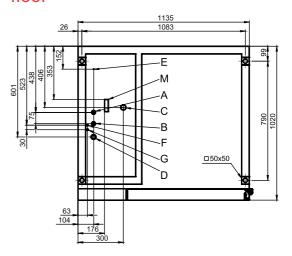
Weights

Views

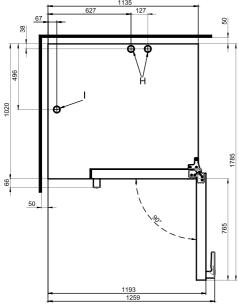
Front view



Connection positions in appliance floor



View from above with wall clearances



- Soft-water connection G 3/4"
- В Hard-water connection G 3/4"
- c Drain connection DN 50
- D **Electrical supply**
- Ε Equipotential bonding
- Nozzle-detergent connection
- Cleaning-fluid connection G
- Н Air vent Ø 50 mm
- Ventilation port Ø 50 mm
- 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 distanc	e of 50 cm from the appliance.

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

max. 2° (3.4%)

Installation instructions

Absolute tilt of appliance in operation*

2



Loading

Electrical supply

Water

Load	ing	capac	ity
	_		

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

Recommended conductor cross-section** 3~ 200V 50/60Hz (3/PE)*

RCD (GFCI), frequency converter (single

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

(recommended), type B/F (optional)

4G70

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
Туре	DN50 (min. internal Ø: 46 mm)

min. 5% (3°)

Water quality

Slope for waste-water

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· 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 quality	 Drinking water (install water treatment system if necessary) Treated tap water for water injection Untreated tap water for cleaning, recoil hand shower
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· 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	Total hardness	
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	Injection (soft water)	
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		
Cl' $\max. 100 \text{mg/l}$ Cl ₂ $\max. 0.2 \text{mg/l}$ SO_4^{2-} $\max. 150 \text{mg/l}$ Fe $\max. 0.1 \text{mg/l}$ Temperature $\max. 40 ^{\circ}\text{C}$	Properties	
Cl_2 max. 0.2 mg/l SO_4^{2-} max. 150 mg/l Fe max. 0.1 mg/l Cl_2 Temperature max. 40 °C	рН	6.5 - 8.5
SO_4^{2-} max. 150 mg/l Fe max. 0.1 mg/l Temperature max. 40 °C	CI-	max. 100 mg/l
Fe max. 0.1 mg/l Temperature max. 40 °C	CI ₂	max. 0.2 mg/l
Temperature max. 40 °C	SO ₄ ²⁻	max. 150 mg/l
	Fe	max. 0.1 mg/l
Electrical conductivity min. 20 μS/cm	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)	f
Ø consumption (water 4-7 °dh)	11.8 l/h
Max. consumption (water 4-7 °dh)	0.6 l/min

^{*}Connection to an energy optimization system as standard.

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



Emissions

Accessories

Emissions

Heat output

Latent heat 11000 kJ/h / 3.06 kW Sensible heat 14100 kJ/h / 3.92 kW

Waste water temperature $max. 80 \, ^{\circ}\text{C}$ Noise during operation $max. 70 \, \text{dBA}$

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.

Tel: +49(0)8847 67-0 Fax: +49(0)8847 414 www.convotherm.com

