Convotherm

Combi steamer

Project _____

Item _____

Quantity _____

FCSI section _____

Approval _____

Date _____

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Model

Convotherm 4 easyTouch

- easyTouch
- 7 slide rails

- Electrical
- Boiler
- Right-hinged door



Key features

- ACS+ operating modes: Steam, combi-steam, hot air
- ACS+ extra functions:
  - Crisp&Tasty - 5 moisture-removal settings
  - BakePro - 5 levels of traditional baking
  - HumidityPro - 5 humidity settings
  - Controllable fan - 5 speed settings
- easyTouch 9" full-touch screen
- ConvoClean+ fully automatic cleaning system with eco, regular and express modes - with optional single-dose dispensing
- Ethernet interface (LAN)
- 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
- Right-hinged door

- KNLZ listed for ventless operation, local codes prevail as in NFPA 96-1994

Standard features

- ACS+ (Advanced Closed System +) operating modes:
  - Steam (86-266°F) with guaranteed steam saturation
  - Combi-steam (86-482°F) with automatic humidity adjustment
  - Hot air (86-482°F) with optimized heat transfer
- HygienicCare - food safety provided by antibacterial surfaces:
  - easyTouch control panel
  - Door handle and recoil hand shower
- easyTouch user interface:
  - 9" full-touch screen
  - Press&Go - automatic cooking with quick-select buttons
  - TrayTimer - oven-load management for different products at the same time
  - Regenerate+ - flexible multi-mode retherm function
  - ecoCooking - energy-save function
  - Low-temperature cooking / Delta-T cooking
  - Cook&Hold - cook and hold in one process
  - 399 cooking profiles each containing up to 20 steps
  - On-screen help with topic-based video function
  - Start-time preset
- Multi-point core temperature probe
- Door handle with safety latch and slam function
- Data storage for HACCP and pasteurization figures
- Preheat and Cool down function

Options

- Steam and vapor removal – built-in condenser (upon request)
- Disappearing door – more space and added safety (see page 2)
- ConvoGrill with grease management function (upon request)
- ConvoSmoke - built in food-smoking
- Marine version (see separate data sheet)
- 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 - indicates the operating status from a distance
- Banquet system (optionally as a package or individually): Plate rack, mobile shelf rack, transport trolley, thermal cover
- Equipment stands in various sizes and designs
- Racks for cooking and baking
- Stacking kits
- Cleaning products for the fully automatic ConvoClean+ cleaning system and the semi-automatic cleaning system

Commercial combination oven with integral systems for limiting the emissions of grease laden air
This product conforms to the ventless operation recommendations set forth by NFPA96 using EPA202 test method

c UL us LISTED COOKING APPLIANCE E202205

NSF

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Cleveland, Ohio 44110

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Manitowoc

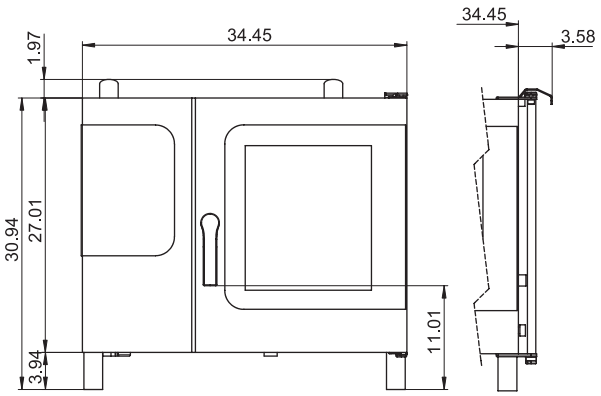
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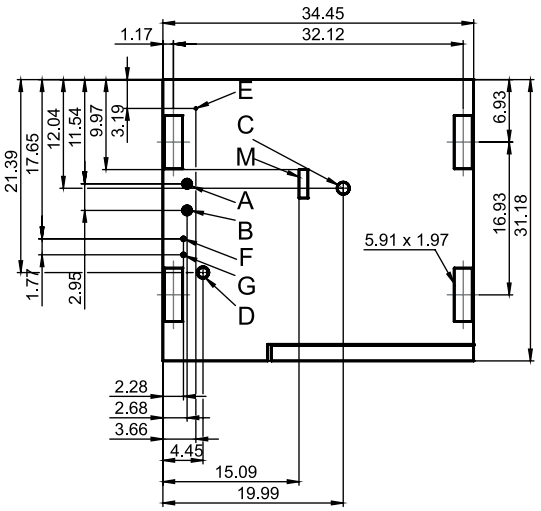
Dimensions
Weights
Views

Front view

(disappearing door optional)

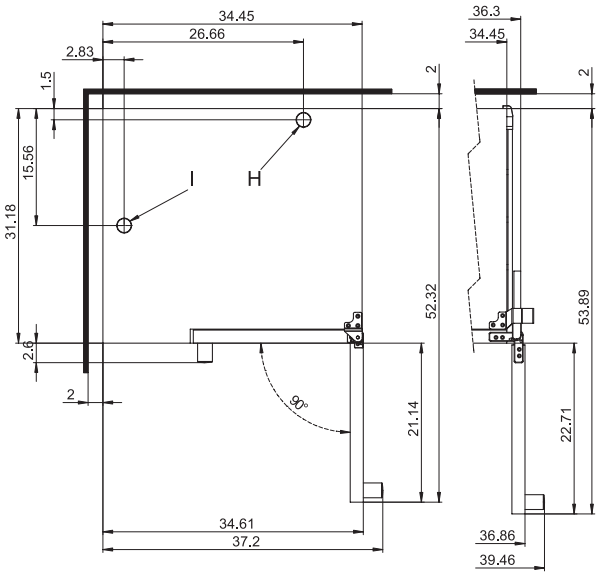


Connection positions



View from above with wall clearances

(disappearing door optional)



A	Water connections (for boiler)
B	Water connections (for cleaning, recoil hand shower)
C	Drain connection (2" I. D.)
D	Electrical connection
E	Electrical ground
F	Rinse-aid connection
G	Cleaning-agent connection
H	Air vent (2" I. D.)
I	Ventilation port
M	Safety overflow 3.2" x 1"

Installation requirements

Max. absolute appliance inclination during operation*	max. 2° (3.4%)

* Adjustable appliance feet as standard.

Dimensions and weights

Dimensions including packaging	
Width x Height x Depth	43.3" x 39.8" x 37"
Weight	
Net weight without options* / accessories	269 lbs
Packaging weight	55 lbs
Safety clearances**	
Rear	2 "
Right (right-hinged door)	2 "
Right (disappearing door pushed back)	5 "
Left (18" clearance recommended for service)	2 "
Top***	20"

* Max. weight of options: 42 lbs.

** Minimum clearance from heat sources: 20".

*** Depends on the type of exhaust system and the ceiling's characteristics.

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Loading capacity

Max. number of food containers	
[Unit has 7 slide rails; rail spacing 2.68" max.]	
Steam table pans (12"x20"x1")	6
Steam table pans (12"x20"x2.5")	6
Wire shelves, half size (12"x20")	6
Sheet pans, half size (12"x20")	6
Frying baskets, half size (12"x20")	6
Plates (optional plate rack)	15
Max. loading weight	
Per combi steamer	66 lbs
Per shelf level	33 lbs

Electrical supply

208V 3PH 60Hz / 240V 3PH 60Hz *	
Rated power consumption	9.0 / 11.8 kW
Rated current	25.0 / 28.5 A
Power supply wire gauge	8 AWG
Conductor insulation rating	194°F / 90°C
440V 3PH 60Hz / 480V 3PH 60Hz *	
Rated power consumption	9.2 / 10.9 kW
Rated current	12.1 / 13.1 A
Power supply wire gauge	12 AWG
Conductor insulation rating	194°F / 90°C
When using the ConvoSmoke option, the only available voltage options are:	
208V 3PH 60Hz *	
Rated power consumption	9.0 kW
Rated current	25.0 A
Power supply wire gauge	8 AWG
Conductor insulation rating	194°F / 90°C
240V 3PH 60Hz *	
Rated power consumption	11.8 kW
Rated current	28.5 A
Power supply wire gauge	8 AWG
Conductor insulation rating	194°F / 90°C

* Prepared for connection to an energy optimizing system.

Water connections

Water supply	
Water supply	Two 3/4" I. D. GHT-M (garden hose adapter). The appliance is designed for a permanent hookup to the water supply that uses a connecting hose with a minimum diameter of 1/2"
Flow pressure	22 - 87 PSI / 1.5 - 6 bar
Drain	
Drain version	Permanent hookup (recommended) or funnel waste trap
Type	2" I. D. (comes elbow-shaped as standard)
Slope for drainpipe	min. 3.5% (2°)

Water quality

Water connection A* for boiler, Water connection B* for cleaning, recoil hand shower	
General requirements	Drinking water, typically untreated water
TDS	70 - 360 ppm
Hardness	70 - 360 ppm (4 - 21 gpg)
pH value	6.5 - 8.5
Cl^- (chloride)	max. 60 ppm
Cl_2 (free chlorine)	max. 0.2 ppm
SO_4^{2-} (sulfate)	max. 150 ppm
Fe (iron)	max. 0.1 ppm
SiO_2 (silica)	max. 13 ppm
NH_2Cl (monochloramine)	max. 0.4 ppm
Temperature	max. 104°F / max. 40°C

* See connection positions diagram, p. 2.

NOTICE: The owner/operator/purchaser must ensure that the water quality requirements are met. Otherwise the original equipment warranty is void.

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Emissions

Heat emission	
Latent	2000 BTU/h
Sensitive	2400 BTU/h
Drain temperature	max. 140°F / 60°C
Decibel rating	max. 70 dBA

Water consumption

Water connections A, B	
Average consumption for cooking**	0.79 gph
Required flow rate	3.96 gpm

** Incl. water required for cooling the wastewater.

NOTICE: See connection positions diagram, p. 2.

ACCESSORIES

(For more detailed information, please refer to the Accessories brochure.)

Stacking kit

Combinations allowed	6.10 on 6.10 6.10 on 10.10
If combining two electrical units	
Select the “stacking kit for Convotherm 4 electrical units”	
If combining one electrical unit and one gas unit in a stacking kit	
Select the “stacking kit for Convotherm 4 electrical units” if:	
Bottom combi steamer	EB/ES
Top combi steamer	GB/GS
Select the “stacking kit for Convotherm 4 gas units” if:	
Bottom combi steamer	GB/GS
Top combi steamer	EB/ES

Equipment stand

Standard support surface height	26.38"

Please note:

- Please refer to the Installation manual for further technical data and for instructions on installation and setup.
- Convotherm reserves the right of design improvement or modification, as warranted.
- There are numerous federal, national and local laws, regulations and standards. It is the responsibility of the owner and installer to observe these laws, regulations and standards (e.g. fire regulations and health and safety standards).
- Convotherm combi steamers are built to comply with the applicable standards for manufacturers.

KNLZ Update 2017

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