CONVOTHERM®

Combi oven

Project _____

Item _____

Quantity _____

FCSI section _____

Approval _____

Date _____

C4eT 10.20 ES

Model

Convotherm 4 easyTouch

- easyTouch
- 11 slide rails
- Electrical
- Injection/Spritzer
- 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 port
- HygienicCare
- 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 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)
- Security model
- 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

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.

ENERGY STAR

c UL us LISTED COOKING APPLIANCE EQUIPMENT

NSF

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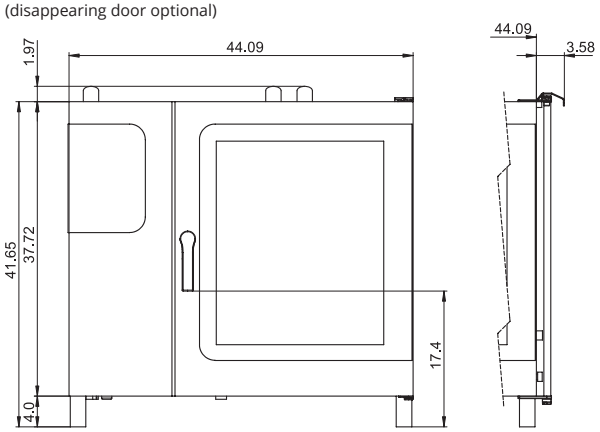
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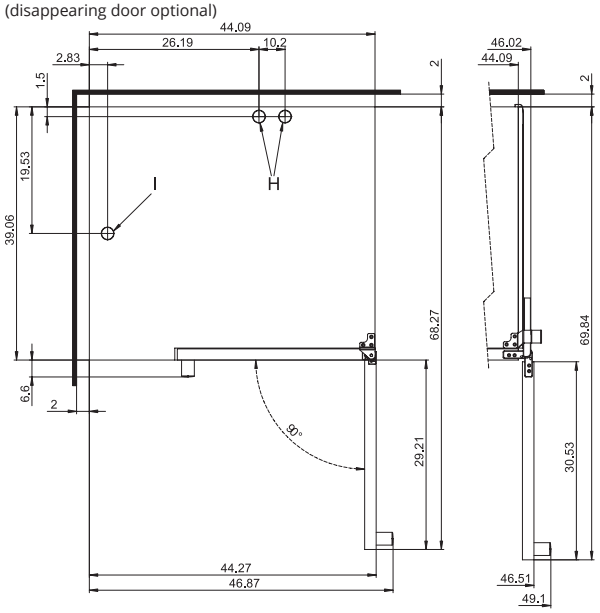
Front view

(disappearing door optional)



View from above with wall clearances

(disappearing door optional)

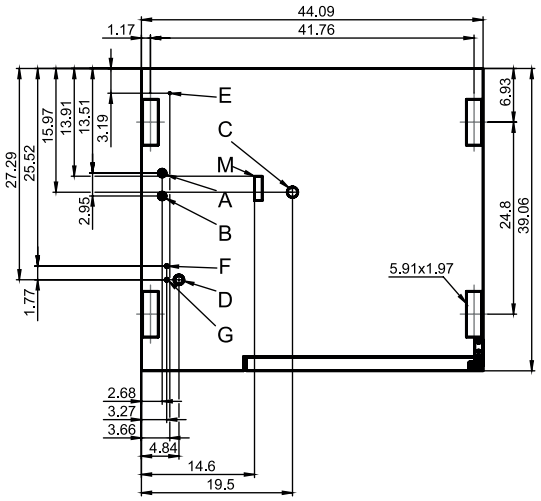


Installation requirements

Max. absolute appliance inclination during operation*	max. 2° (3.5%)

* Adjustable appliance feet as standard.

Connection positions



A	Water connections (for water injection)
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"

Dimensions and weights

Dimensions including packaging	
Width x Height x Depth	53" x 50.4" x 44.9"
Weight	
Net weight without options* / accessories	392 lbs
Packaging weight	77 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: 46 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 11 slide rails; rail spacing 2.68" max.]	
Steam table pans (12"x20"x1")	20
Steam table pans (12"x20"x2.5")	20
Wire shelves, full size (20"x26")	10
Sheet pans, full size (18"x26")*	10
Sheet pans, half size (12"x20")*	20
Frying baskets, half size (12"x20")	20
Plates (optional plate rack)	48
Max. loading weight	
Per combi oven	220 lbs
Per shelf level	33 lbs

* Wire shelves required.

Electrical supply

208V 3PH 60Hz / 240V 3PH 60Hz *	
Rated power consumption	27.4 / 36.3 kW
Rated current	76.1 / 87.5 A
Power supply wire gauge	3/2 AWG
Conductor insulation rating	194 °F / 90 °C
440V 3PH 60Hz / 480V 3PH 60Hz *	
Rated power consumption	28.2 / 33.4 kW
Rated current	37.0 / 40.3 A
Power supply wire gauge	8/6 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	27.4 kW
Rated current	76.1 A
Power supply wire gauge	3 AWG
Conductor insulation rating	194 °F / 90 °C
240V 3PH 60Hz *	
Rated power consumption	36.3 kW
Rated current	87.5 A
Power supply wire gauge	2 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" inner diameter GHT-M (garden hose adapter). The unit 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" inside diameter (comes elbow-shaped as standard)
Slope for drainpipe	min. 3.5% (2°)

Water quality

Water connection A* for water injection	
General requirements	Drinking water, typically treated water (install a water treatment system if necessary)
TDS	70 - 125 ppm
Hardness	70 - 125 ppm (4 - 7 gpg)
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)
Water connections A, B*	
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 loss	
Latent	6100 BTU/h
Sensitive	7400 BTU/h
Wastewater temperature	max. 140°F / 60°C
Decibel rating	max. 70 dBA

Water consumption

Water connection A*	
Average consumption for cooking	1.95 gph
Required flow rate	0.16 gpm
Water connections A, B	
Average consumption for cooking**	2.93 gph
Required flow rate	3.96 gpm

* Values intended as guide for specifying the water treatment system.

** 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

Combination allowed	6.20 on 10.20
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 oven	EB/ES
Top combi oven	GB/GS
Select the “stacking kit for Convotherm 4 gas units” if:	
Bottom combi oven	GB/GS
Top combi oven	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 ovens are built to comply with the applicable standards for manufacturers.

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