

Combi steamer

Project
ltem
Quantity
FCSI section
Approval
Date

Model

Convotherm 4 easyDial

- easyDial
- 20 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
- easyDial: all functions are set in one operating level
- Semi-automatic cleaning system
- 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

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
 - O Hot air (86-482°F) with optimized heat transfer
- HygienicCare food safety provided by antibacterial surfaces:
 - o easyDial control panel
 - Door handle and recoil hand shower
- easyDial user interface:
 - O Convotherm Dial (C-Dial) central control unit
 - Digital display
 - O Retherming function retherm products to peak quality
 - 99 cooking profiles each containing up to 9 steps
- Multi-point core temperature probe
- Door handle with safety latch
- Integral preheat bridge
- Data storage for HACCP and pasteurization figures
- Preheat and Cool down function
- One (1) loading trolley

Options

- ConvoClean fully automatic cleaning system with optional single-dose dispensing
- Steam and vapor removal built-in condenser (upon request)
- Disappearing door more space and added safety (see page 2)
- Marine version (see separate data sheet)
- Ethernet port (LAN)
- 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 loading trolley, loading trolley, thermal cover
- Cleaning products for the fully automatic ConvoClean cleaning system and the semi-automatic cleaning system





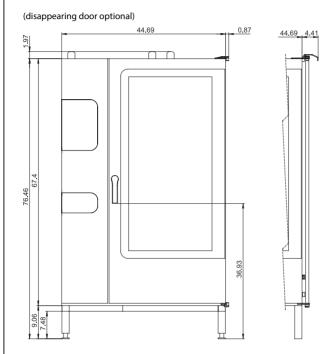


Dimensions

Weights

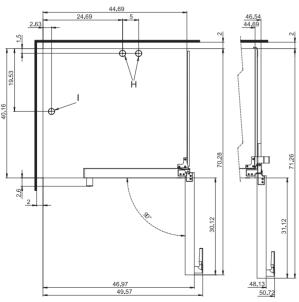
Views

Front view



View from above with wall clearances

(disappearing door optional)

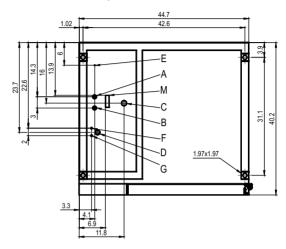


Installation requirements

Max. absolute appliance inclination during $$\operatorname{\textsc{max}}$. 2^{\circ} (3.4\%)$ operation*$

* Adjustable appliance feet as standard.

Connection positions



- 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"

Dimensions and weights

Dimensions including packaging

Width x Height x Depth	55.5" x 84.7" x 46.1"
Weight	
Net weight without options* / accessories	783 lbs
Packaging weight	106 lbs
Safety clearances**	
Rear	2 "
Right (right-hinged door)	2 "
Right (disappearing door pushed back)	6 "
Left (18" clearance recommended for serv	rice) 2 "
Top***	20"

- * Max. weight of options: 59 lbs.
- ** Minimum clearance from heat sources: 20".
- $\ensuremath{^{***}}$ Depends on the type of exhaust system and the ceiling's characteristics.



Capacity

Electrical specifications

Water

Loading capacity

Max. number of food containers [Unit has 20 slide rails; rail spacing 2.68" max.] Steam table pans (12"x20"x1") 40 Steam table pans (12"x20"x2.5") 40 Wire shelves, full size (20"x26") 20 Sheet pans, full size (18"x26")* 20 Sheet pans, half size (12"x20")* 40 Frying baskets, half size (12"x20") 40 Plates (optional plate banquet trolley) 98

Max. loading weight

Per combi steamer	397 lbs
Per shelf level	33 lbs

^{*} Wire shelves required.

Electrical supply

208V 3PH 60Hz / 240V 3PH 60Hz *

Rated power consumption	54.4 / 72.3 kW
Rated current	151.1 / 174.1 A
Power supply wire gauge	2/0 3/0 AWG
Conductor insulation rating	194°F / 90°C

440V 3PH 60Hz / 480V 3PH 60Hz *

Rated power consumption	56.3 / 66.8 kW
Rated current	73.9 / 80.5 A
Power supply wire gauge	4/3 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 open pan or duct / channel
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

water connection by for c	ieaning, recon nama snower	
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 ₂ Cl (monochloramine)	max. 0.4 ppm	
Temperature	max. 104°F / max. 40°C	
* Con connection positions diagram p 2		

^{*} 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.



Emissions

Water consumption

Emissions

Heat	emis	sion

Latent 10500 BTU/h
Sensitive 13400 BTU/h

Drain temperature max. 140°F / 60°C

Decibel rating max. 70 dBA

Water consumption

Water connections A, B

Average consumption for cooking**	3.54 gph
Required flow rate	3.96 gpm

^{**} Incl. water required for cooling the wastewater.

NOTICE: See connection positions diagram, p. 2.

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.





Combi steamer

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Model

Convotherm 4 easyDial

- easyDial
- 20 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
- easyDial: all functions are set in one operating level
- Semi-automatic cleaning system
- 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

Standard features

- ACS+ (Advanced Closed System +) operating modes:
 - $^{\circ}$ Steam (86-266°F) with guaranteed steam saturation
 - Combi-steam (86-482°F) with automatic humidity adjustment
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Options

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- Steam and vapor removal built-in condenser (upon request)
- Disappearing door more space and added safety (see page 2)
- Marine version (see separate data sheet)
- Ethernet port (LAN)
- Available in various voltages
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Accessories

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- $\,\blacksquare\,\,$ Signal tower indicates the operating status from a distance
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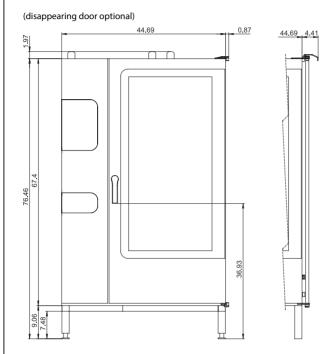


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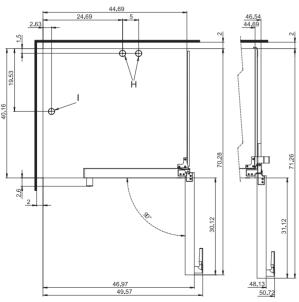
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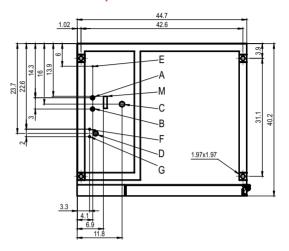


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* Adjustable appliance feet as standard.

Connection positions



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- **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	55.5" x 84.7" x 46.1"
Weight	
Net weight without options* / accessories	743 lbs
Packaging weight	106 lbs
Safety clearances**	
Rear	2 "
Right (right-hinged door)	2 "
Right (disappearing door pushed back)	6 "
Left (18" clearance recommended for servi	ice) 2 "
Top***	20"

^{*} Max. weight of options: 59 lbs.

^{**} Minimum clearance from heat sources: 20".

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



Capacity

Electrical specifications

Water

Loading capacity

Max. number of food containers [Unit has 20 slide rails; rail spacing 2.68" max.] Steam table pans (12"x20"x1") 40 Steam table pans (12"x20"x2.5") 40 Wire shelves, full size (20"x26") 20 Shoot page, full size (18"x26")* 20

Sheet pans, full size (18"x26")* 20
Sheet pans, half size (12"x20")* 40
Frying baskets, half size (12"x20") 40
Plates (optional plate banquet trolley) 98

Max. loading weight

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Per shelf level 33 lbs

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Power supply wire gauge	4/3 AWG
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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 open pan or duct / channel
Туре	2" I. D. (comes elbow-shaped as standard)
Slope for drainpipe	min. 3.5% (2°)

Water quality

Water connection A* for water injection

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 - 8.5Cl⁻ (chloride) max. 60 ppm

Cl₂ (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_2CI (monochloramine) max. 0.4 ppm

Temperature max. 104°F / max. 40°C

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

^{*} Wire shelves required.

^{*} See connection positions diagram, p. 2.



Emissions

Water consumption

Emissions

Heat emission	
Latent	10500 BTU/h
Sensitive	13400 BTU/h
Drain temperature	max. 140°F / 60°C
Decibel rating	max. 70 dBA

Water consumption

Average consumption for cooking	3.12 gph
Required flow rate	0.16 gpm

Water connections A, B

Average consumption for cooking**	4.68 gph
Required flow rate	3.96 gpm

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

NOTICE: See connection positions diagram, p. 2.

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.



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^{**} Incl. water required for cooling the wastewater.