

Combi steamer

Project
Item
Quantity
FCSI section
Approval
Date

Model

Convotherm 4 easyDial

- easyDial
- 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
- 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
- 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:
 - easyDial control panel
 - Door handle and recoil hand shower
- easyDial user interface:
 - Convotherm Dial (C-Dial) central control unit
 - Digital display
 - 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 and slam function
- Data storage for HACCP and pasteurization figures
- Preheat and Cool down function

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 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







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This product conforms to the ventless operation recommendations set forth by NFPA96 using EPA202 test method



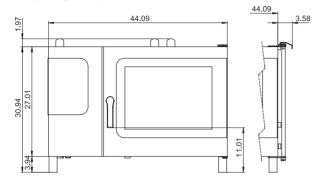
Dimensions

Weights

Views

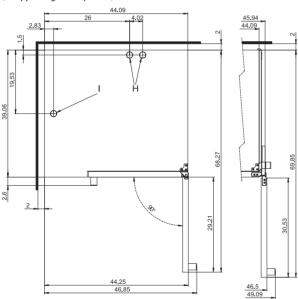
Front view

(disappearing door optional)



View from above with wall clearances

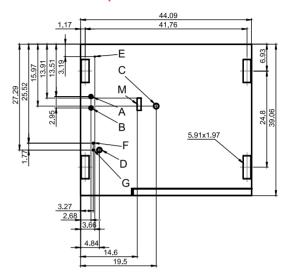
(disappearing door optional)



Installation requirements

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

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	53" x 39.8" x 44.9"
Weight	
Net weight without options* / accessories	379 lbs
Packaging weight	66 lbs
Safety clearances**	
Rear	2 "
Right (right-hinged door)	2 "
Right (disappearing door pushed back)	5 "
Left (18" clearance recommended for service	e) 2 "
Top***	20"

^{*} Max. weight of options: 42 lbs.

^{*} Adjustable appliance feet as standard.

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

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



Capacity

Electrical specifications

Water

Loading capacity

3 , ,	
Max. number of food containers	
[Unit has 7 slide rails; rail spacing 2.68" max.]	I
Steam table pans (12"x20"x1")	12
Steam table pans (12"x20"x2.5")	12
Wire shelves, full size (20"x26")	6
Sheet pans, full size (18"x26")*	6
Sheet pans, half size (12"x20")*	12
Frying baskets, half size (12"x20")	12
Plates (optional plate rack)	27
Max. loading weight	
Per combi steamer	132 lbs

33 lbs

Per shelf level

Electrical supply

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

440V 3DH 60Hz / 480V 3DH 60Hz *	
Conductor insulation rating	194°F / 90°C
Power supply wire gauge	6 AWG
Rated current	44.1 / 50.6 A
Rated power consumption	15.9 / 21.0 kW

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

Rated power consumption	16.3 / 19.3 kW
Rated current	21.4 / 23.3 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
Туре	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 cleaning, recon name 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 ₂ Cl (monochloramine)	max. 0.4 ppm	
Temperature	max. 104°F / max. 40°C	
* See connection positions diagram in 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.

^{*} Wire shelves required.



Emissions

Water consumption

Accessories

Emissions

Heat emission

Latent 3400 BTU/h
Sensitive 4300 BTU/h

Drain temperature max. 140°F / 60°C

Decibel rating max. 70 dBA

Water consumption

Water connections A, B

Average consumption for cooking**	1.90 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	6.20 on 6.20
	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 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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- easyDial
- 7 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
- 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:
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Options

- ConvoClean fully automatic cleaning system with optional single-dose dispensing
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- Disappearing door more space and added safety (see page 2)
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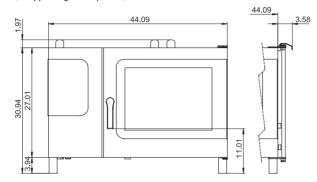
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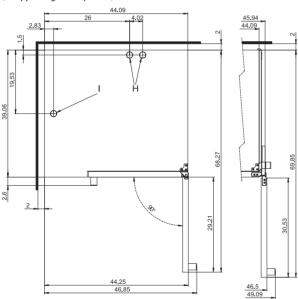
Front view

(disappearing door optional)



View from above with wall clearances

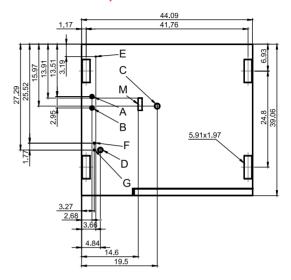
(disappearing door optional)



Installation requirements

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

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 39.8" x 44.9"	
Weight		
Net weight without options* / accessories	353 lbs	
Packaging weight	66 lbs	
Safety clearances**		
Rear	2 "	
Right (right-hinged door)	2 "	
Right (disappearing door pushed back)	5 "	
Left (18" clearance recommended for servic	e) 2 "	
Top***	20"	

^{*} Max. weight of options: 42 lbs.

^{*} Adjustable appliance feet as standard.

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

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



Capacity

Electrical specifications

Water

Loading capacity

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Max. number of food containers	
[Unit has 7 slide rails; rail spacing 2.68" max.]	
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Sheet pans, half size (12"x20")*	12
Frying baskets, half size (12"x20")	12
Plates (optional plate rack)	27
Max. loading weight	
Per combi steamer	132 lbs

33 lbs

Per shelf level

Electrical supply

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

Rated power consumption	15.9 / 21.0 kW
Rated current	44.1 / 50.6 A
Power supply wire gauge	6 AWG
Conductor insulation rating	194°F / 90°C

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

Rated power consumption	16.3 / 19.3 kW
Rated current	21.4 / 23.3 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
Туре	2" I. D. (comes elbow-shaped as standard)
Slope for drainpipe	min. 3.5% (2°)

Water quality

Water connection	A* for	water in	jection
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General requirements	Drinking water, typically treated

water

(install a water treatment system if necessary)

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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 ₂ CI (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.

 $[\]ensuremath{^*}$ See connection positions diagram, p. 2.



Emissions

Water consumption

Accessories

Emissions

Heat emission	
Latent	3400 BTU/h
Sensitive	4300 BTU/h
Drain temperature	max. 140°F / 60°C
Decibel rating	max. 70 dBA

Water consumption

water connection A*	Water	connection	A *
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Average consumption for cooking	1.35 gph
Required flow rate	0.16 gpm

Water connections A, B

Water connections A, D	
Average consumption for cooking**	2.01 gph
Required flow rate	3.96 gpm

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

NOTICE: See connection positions diagram, p. 2.

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