

# Combi oven

Project	
Item	
Quantity	
FCSI section	
Approval	
	_
Date	

Convotherm 4 easyDial

12.20

12 slide rails

- Electric
- Boiler
- Right-hinged door





#### **Key Features**

- Advanced Closed System+ (ACS+) cooking methods: Steam, combi-steam, hot air
- Advanced Closed System+ (ACS+) with 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
- Cleaning Management ConvoClean: Fully automatic cleaning system, optional single-dose dispensing
- HygieniCare
- TriColor indicator ring indicates the current operating status
- Steam generated by high-performance boiler outside the cooking
- Right-hinged door

#### Standard features

- Cooking methods:
  - O 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
- easyDial user interface controls:
  - O Convotherm-Dial (C-Dial) central control unit
  - Digital display
- Climate Management
  - Advanced Closed System+ (ACS+), HumidityPro, Crisp&Tasty
- **Quality Management** 
  - Airflow Management, BakePro, multi-point core temperature probe
- **Production Management** 
  - 99 cooking profiles each containing up to 9 steps
  - HACCP data storage
  - USB port
  - Rethermalization function products are rethermalized at the highest level of quality
  - Preheat and cool down function

#### Standard features

- Cleaning Management ConvoClean: Fully automatic cleaning system, optional single-dose dispensing
- HygieniCare:
  - Hygienic handles
- Design:
  - Right-hinged unit door with safety lock, sure-shut function, and venting position
  - Steam generated by boiler
  - Adjustable feet with adjustment range between 4 inches and 5
  - Multi-point core temperature probe
  - Integrated recoil hand shower









## **Options**

#### **Accessories**

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- Steam generated by high-performance boiler outside the cooking chamber
- Right-hinged door

#### **Options**

- Disappearing door more space and added safety (see page 3)
- Corrections package
- Ethernet port (LAN)
- Available in various voltages
- Sous-vide probe, external connection
- Core temperature probe, external connection (internal core probe standard)

#### Accessories

- ConvoLink HACCP and cooking-profile management PC software
- Signal Tower
- Banquet system (optionally as a package or individually): Plate loading trolley, loading trolley, thermal cover

## Accessories and services by partners

- Cleaning chemicals for the fully automatic ConvoClean+ cleaning system (multiple-dose and single-dose dispensing)
- Water filtration and reverse osmosis systems and replacement filters
- Installation services available details in AutoQuotes availability may vary by region
- Cooking, baking, and roasting cookware

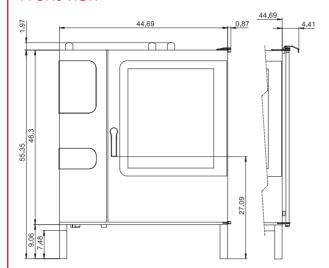


## **Dimensions**

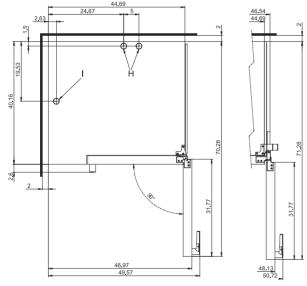
## Weights

#### **Views**

#### Front view



## View from above with wall clearances



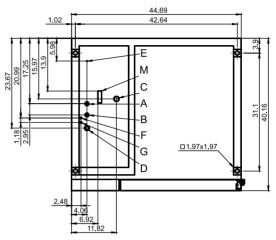
(disappearing door optional)

## Installation requirements

Max. absolute appliance inclination during operation*	max. 2° (3.5%)
Clearance from heat sources	min. 20 "
Recommended clearance for servicing on the left side of the unit	min. 20 "

<sup>\*</sup> Adjustable appliance feet as standard.

## Connection points, bottom of unit



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

## Dimensions and weights

Dimensions including packaging	
Width x height x depth	56.3" x 65.2" x 46.9"
Weight	
Net weight without options* / accessories	558 lbs
Packaging weight	99 lbs
Safety clearances**	
Rear	2 "
Right (right-hinged door)	2 "
Right (disappearing door pushed back)	6 "
Left (see installation requirements)	2 "
Top***	20"

- \* Max. weight of options: 33 lbs.
- \*\* Required for the unit to work properly.
- \*\*\* Depends on the type of exhaust system and the ceiling's characteristics.



# **Capacity**

# **Electrical specifications**

## Loading capacity

Max. number of food containers

[Unit has 12 slide rails; rail spacing 2.68" max.]

Steam table pans (12"x20"x1")	-
Steam table pans (12"x20"x2.5")	24
Wire shelves, full size (20"x26")	12
Sheet pans, full size (18"x26")*	12
Sheet pans, half size (12"x20")*	24
Frying baskets, half size (12"x20")	24
Plates (optional plate banquet trolley)	59
Maria Landers and Salar	

Max. loading weight

Per combi oven 265 lbs
Per shelf level 33 lbs

## 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

 $<sup>\</sup>ensuremath{\mbox{*}}$  Prepared for connection to an energy optimizing system.

<sup>\*</sup> Wire shelves required.



#### Water

#### **Emissions**

#### Water connection

Water supply

Water supply

Two hoses 1/2" inner diameter with one side 3/4" GHT-F to 3/4"

BST

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 Naturally ventilated pipe to open

pan or drain/channel

Type 2" inside diameter (comes elbow-

shaped as standard)

Slope for drainpipe min. 3.5% (2°)

#### **Emissions**

Heat loss

Latent 6600 BTU/h
Sensible 7400 BTU/h
Drain temperature max. 140°F / 60°C

Decibel rating max. 70 dBA

## 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<sub>2</sub> (free chlorine) max. 0.2 ppm SO<sub>4</sub><sup>2-</sup> (sulfate) max. 150 ppm Fe (iron) max, 0.1 ppm SiO<sub>2</sub> (silica) max. 13 ppm NH<sub>2</sub>Cl (monochloramine) max. 0.2 ppm Temperature max. 104°F / max. 40°C

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

### Water consumption

Water connections A, B

Average consumption for cooking\*\* 2.8 gph
Required flow rate 4.0 gpm

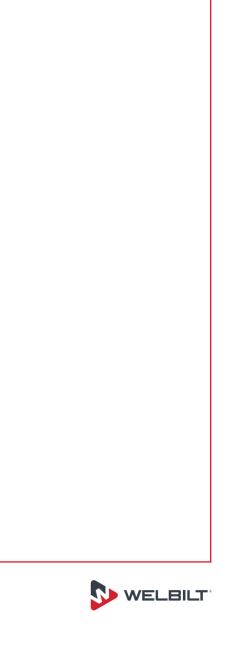
NOTICE: See connection positions diagram, p. 2.

<sup>\*</sup> Please refer to the connection points diagram, p. 2.

<sup>\*\*</sup> Even if the limits are adhered to, deposits of minerals that do not cause hardness may occur in certain cases. Any measures used to prevent this must be clarified with Technical Support.

 $<sup>\</sup>ensuremath{^{**}}$  Incl. water required for cooling the wastewater.







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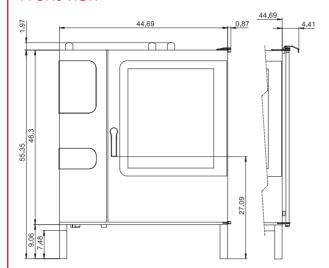


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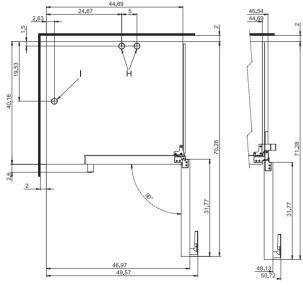
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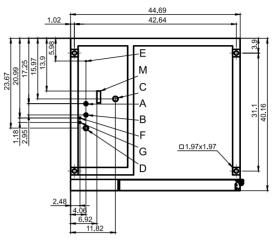
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#### Water

#### **Emissions**

#### Water connection

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**BST** 

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22 - 87 psi / 1.5 - 6 bar Flow pressure

Drain

Drain version Naturally ventilated pipe to open

pan or drain/channel

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

(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<sub>2</sub> (free chlorine) max. 0.2 ppm SO<sub>4</sub><sup>2-</sup> (sulfate) max. 150 ppm Fe (iron) max. 0.1 ppm SiO<sub>2</sub> (silica) max. 13 ppm NH<sub>2</sub>Cl (monochloramine) max. 0.2 ppm

max. 104°F / max. 40°C Temperature

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

#### Water consumption

Water connection A*	
Average consumption for cooking	2.3 gph
Required flow rate	0.2 gpm
Water connections A, B	
Average consumption for cooking**	3.5 gph
Required flow rate	4.0 gpm

<sup>\*</sup> Values intended as guide for specifying the water treatment system.

NOTICE: See connection positions diagram, p. 2.

#### **Emissions**

Heat loss	
Latent	6600 BTU/h
Sensible	7400 BTU/h
Drain temperature	max. 140°F / 60°C
Decibel rating	max. 70 dBA

<sup>\*</sup> Please refer to the connection points diagram, p. 2.

<sup>\*\*</sup> Incl. water required for cooling the wastewater.



