



Specification

Wed Nov 24 11:28:59 CET 2021

CombiMaster® Plus CMP XS E (4 x 13 x 18 inch)



5 years warranty on steam generator

Capacity

- Three (3) GN 2/3 (1 1/2") or GN 2/3 (2 1/2 ") or four (4) 1/2 size sheet pans
- Removable, swivel hinging rack with flexible rack options on 7 levels

Standard Features

- Electrically heated table device for cooking of meat, poultry, fish, side dishes, vegetables, egg dishes, desserts, bakery products and for automatic rethermalization
- Combi-steamer according to DIN 18866, DIN 10535 for selective use of steam and hot air, separately, sequentially, or combined
- 2-Year parts and labor warranty
- 5-Year steam generator warranty
- LED cooking cabinet lighting - energy-saving, durable and low-maintenance
- Rear-ventilated triple-pane cooking cabinet door, two hinged inside panes (for easy cleaning) with a special heat-reflecting coating
- No-charge 4-hour RATIONAL certified chef assistance program
- Probe for core temperature measurement
- ClimaPlus® – humidity measurement, 5 stage setting and regulation
- Combi-steamer mode °F/(°C): steam: 85 to 265/(30 to 130), hot air: 85 to 575/(30 to 300), combination: 85 to 575/(30 to 300)

- Lengthwise loading for 2/3, 1/2, 1/3 GN (12" x 14", 12" x 10", 12" x 7") accessories, 1/2 size sheet pans and steam pans
- Individual programming of at least 100 cooking programs with up to 6 steps transferable via USB
- High-performance fresh steam generator, pressureless
- 5 programmable fan speeds
- Integral, maintenance-free grease extraction system with no additional grease filter
- Turbo fan cool down function
- Dynamic air mixing
- Automatic adaptation to the installation location (elevation)
- 304 (DIN 1.4301) stainless steel material inside and out
- Seamless interior and with rounded corners
- Temperature units can be set in °F/(°C)
- Digital temperature display
- Digital timer, 0-24 hours with permanent setting
- USB Interface
- Unit base with surrounding seal
- Demand-related energy supply
- UL listed as Commercial Cooking Appliance with Integral Systems for Limiting the Emission of Grease-laden Air

Operation

- Mode selector for cooking modes, separate controls for temperature, core temperature and time settings
- LED illuminated display, visible from a distance
- Clear control panel

Safety features

- Detergent and rinse tabs (solid detergents) for optimum working safety
- VDE approved for unsupervised operation
- HACCP data output and software update via integral USB port
- Safety temperature limiter for steam generator and hot-air heating
- Maximum rack height 5 1/4 ft./1.60 m when original stand is used
- Integral fan impeller brake
- Door handle with right/left and slam function
- Splash an hose-proof to IPX5

Cleaning & care

- 3 automatic cleaning programs
- Service Diagnostic system (SDS) with automatic service notices displayed
- Menu-guided user descaling program
- Hand shower with automatic retracting system

Approval/Labels



Project:	Quantity:	Item No:	FCSI Section:	Approval:	Date:
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Combi-Steamer mode



Steam between 85-265 °F (30-130 °C)



Hot-air from 85-575 °F (30-300 °C)



Combination of steam and hot-air 85-575 °F (30-300° C)

ClimaPlus



Climate management - humidity measurement, 5-stage setting and regulation

Technical Specification

Dimensions	Width	Depth	Height
Exterior	25 3/4" (655 mm)	21 7/8" (555 mm)	22 3/8" (567 mm)
Shipping	34 5/8" (880 mm)	37" (940 mm)	29 1/2" (750 mm)

Weight	
Max Per Shelf	22 lbs
Max Load Size	44 lbs
Net	137 lbs
Shipping	182 lbs

Size	Electric. 60 hz	Breaker	Cable connection	Running Amps
XS	208V 3 PH	20A	15-30P	15.9 amps
XS	240V 3 PH	20A	15-30P	15.5 amps
XS	208V 1 PH	30A	6-50P	27.4 amps
XS	240V 1 PH	30A	6-50P	24.0 amps

Each XS unit is supplied with 8 ft 14-3 AWG cord and plug. Use copper wire only. 3PH 4-wire system (3 wire w/ ground)-dedicated 3 pole circuit breaker required. 1 Ph L1, L2, G-dedicated 2 pole circuit breaker required. 208v is field retrofittable to 240v. Do not use fuses.

Thermal load and airflow requirements

Latent	283 W
Sensible	375 W
Unit free standing	13314 ft³/hr
One side against a wall	8405 ft³/hr
Noise values	65 dBA

Connected load electric

Hot air connection:	5.4 kW
Steam connection:	5.4 kW
Connected load electric:	5.7 kW

Water Requirements

Connection	3/4"
Supply	Minimum 1/2" ID Drinking Quality Cold
Pressure	21-87 psi (1.5-6 bar)
Average Water Consumption	1 gal/h
Min/Max Flow Rate	3 gpm/5.3 gpm
Water Drain	1 1/2" OD (40 mm) hub

Connect only to 2" (XS = 1 1/2") high-temperature resistant pipe. Water discharge temperature can be field adjusted to meet section 701.7 of the International Plumbing Code. Contact RATIONAL for back flow recommendation.

Water Quality

Untreated water can be 0 to 24.5 gr/gal (0 to 420ppm) hardness. We do not recommend treated water hardness < 5 gr/gal (86ppm) because the water could be corrosive. Sodium ion exchangers are not recommended; H+ Ion exchange systems are recommended. Water that does not meet the following minimum standards will require the proper conditioning.

Contaminant	Water Requirements	If > than recommended
Sand/Particles	< 15 µm	Particle filter
Chlorine (Cl ₂)	< 0.12 gr/gal (0.2 ppm)	Active carbon filter
Chloride (Cl ₋)	< 4.68 gr/gal (80 ppm)	RO or deionization

Clearance Requirements

To facilitate servicing, we recommend leaving a 18"-20" (450-500 mm) gap on the left-hand side of the unit. If there is not 18"-20" (450-500 mm) left side clearance available, provisions for moving the unit or appliance to the left for service access must be made. These include, but are not limited to, having quick connections (water, gas, etc.) and lengthened electrical connections with flexible cords. If there are no external heat sources acting on the unit, there should be a minimum gap of 2" (50 mm) to the left, right, and back of unit. If a high temperature heat source is on the left side of the unit, the left-hand gap must be a minimum of 14" (350 mm). This gap may be reduced to 2" (50 mm) by using a heat shield (see options). Recommended clearance from unobstructed rear exhaust pipes and any surface collecting grease or flammable material; 16" (400 mm) gas, 10" (254 mm) electric. It is recommended to have a hood overhang of 6" (150 mm) to 18" (450 mm) at the front of the unit and 6" (150 mm) on the side if installed at the end of the cooking line. Please refer to the Installation Manual for further technical data and for instructions on installation and setup. Installations must comply with all local electrical, plumbing, and ventilation codes. test test test

RATIONAL Canada Inc.

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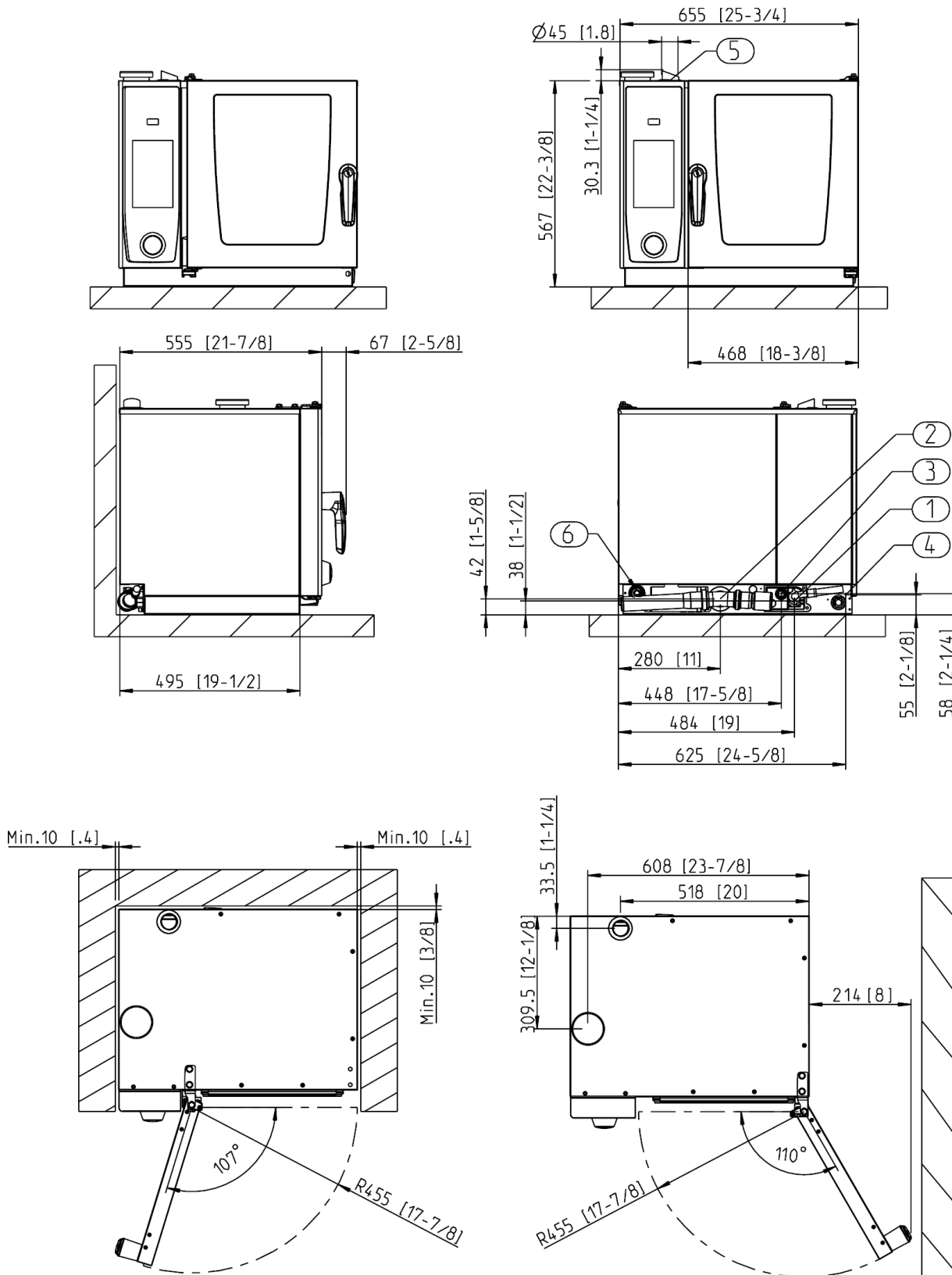
We reserve the right to make technical improvements



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1. Common water supply (cold water) "Single" water connection as shipped 2. Drain 3. Electrical connection wire entrance 4. Chassis Ground connection 5. Steam Vent pipe 2 3/8" / 60mm Minimum Clearance 2" / 50 mm Left side clearance 20" recommended for servicing of unit without the ability to move unit while connected. Measurements in mm (inch)

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ELECTRICAL OPTIONS (all 60Hz) Special voltages available upon request

- | | |
|---|------------------------------------|
| ☐ 208V 1 Ph - field retrofittable to 240 V | ☐ 240V 1 Ph |
| ☐ 208V 3 Ph - field retrofittable to 240 V | ☐ 240V 3 Ph |

ACCESSORIES

- | | |
|--|--------------------------|
| ☐ Installation Kits – include electrical, water and drainage connection | |
| ☐ 208 or 240/60/1Ph- copper drain | 87.01.404US |
| ☐ 208 or 240/60/1Ph- CPVC drain | 87.01.403US |
| ☐ 208 or 240/60/3Ph- copper drain | 87.01.402US |
| ☐ 208 or 240/60/3Ph- CPVC drain | 87.01.201US |
| ☐ RATIONAL Cleaner Tabs without phosphorous – guarantee maximum cleaning power | 56.00.210A |
| ☐ RATIONAL Rinse Tabs | 56.00.211 |
| ☐ Descaler, 4x 1 gallon case | 6006.0110US |
| ☐ Certified installation by RATIONAL SERVICE-PARTNERS | See document |
| ☐ UG I stationary stand | 60.31.018 |
| ☐ UG I stationary stand for Combi Duo | 60.31.020 |
| ☐ UG II stationary stand- 8 sets of support rails | 60.31.044 |
| ☐ UG II stationary stand for Combi-Duo- 4 sets of support rails | 60.31.046 |
| ☐ UG XS stand- adjustable by 1 ½" on uneven work surface | 60.31.029 |
| ☐ Stackable Combi-Duo kit, – for stacking XS on XS, right-hinged doors | 60.73.768 |
| ☐ Stackable Combi-Duo kit, – for stacking XS on XS, left-hinged doors | 60.74.276 |
| ☐ Wall bracket- for space-saving wall assembly | 60.30.968 |
| ☐ Condensation breaker – to divert steam from the unit into existing hood system | 60.74.037 |
| ☐ UltraVent XS – recirculating hood – UL approved | 60.74.254 |
| ☐ UltraVent Plus XS – recirculating hood – UL approved | 60.74.407 |
| ☐ Combi-Duo UltraVent XS or UltraVent Plus XS adapter kit | 60.73.945 |
| ☐ RATIONAL USB data-memory stick – for transferring cooking programs and HACCP data | 42.00.162 |
| ☐ Hinging rack – 11 racks | 60.73.724 |
| ☐ Hinging rack – 7 racks | 60.74.331 |
| ☐ For a full list of ¾ size accessories for ideal grilling, baking, roasting, frying, rotisserie, steaming, Finishing®, and much more | See accessories brochure |

FACTORY INSTALLED OPTIONS (special order)

- ☐ Left-hinged door 208V / 240V / 1PH | 208V / 240V / 3PH
- ☐ Ethernet card and port – for easy connection of LAN cable
- ☐ Door safety lock – handle is turned left then right before the door can be opened
- ☐ Marine Version