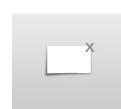


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CombiMaster® Plus CMP 102 E (10 x 18 x 26 inch/20 x 12 x 20 inch)





Capacity

- Ten (10) full-size sheet pans (18"x26") or Twenty (20) Steam table pans (12"x20"x2.5") GN1/1
- · Removable, swivelling hinging rack
- Vertical distance between rails 2 5/8" (68 mm)

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
- 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)
- 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
- Single water connection as shipped, can be split connection for treated and untreated water
- · Turbo fan cool down function
- · Dynamic air mixing
- Automatic adaptation to the installation location (elevation)
- Unit door with rear-ventilated double-glass panel and hinged inner panel
- Height adjustable feet +- 3/8" (10 mm)
- 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
- · 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 ¼ 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

Ventilation approvals

 This appliance conforms to the EPA 202 test in accordance to the ANSI/NFPA 96 "Ventilation Control and Fire Protection of Commercial Cooking Operations" Refer to UL Listing KNLZ.E148536 (America) or KNLZ7.E148536 (Canada).













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CombiMaster® Plus CMP 102 E (10 x 18 x 26 inch/20 x 12 x 20 inch)

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	42 1/8" (1,069 mm)	38 3/8" (976 mm)	41" (1,042 mm)
Incl. Vent/Handle	-	40 7/8" (1,038 mm)	43 1/8" (1,096 mm)
Shipping	45 5/8" (1,160 mm)	44 1/8" (1,120 mm)	49 5/8" (1,260 mm)

Weight

Max Per Shelf	66 lbs	
Max Load Size	198 lbs	
Net	401 lbs	
Shipping	409 lbs	

Size Electric. 60 hz Breaker	Cable connection	Running Amps
102 208V 3 PH 125A	#2	102.7 amps
102 240V 3 PH 150A	#2	119 amps
102 480V 3 PH 70A	#4	52.6 amps
102 440V 3 PH 60A	#4	48.6 amps

Not supplied with cable connection. 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. 208 v is field retrofittable to 240v, 480v is field retrofittable to 440v. Special voltages available upon request. Do not use fuses.

Thermal load and airflow requirements

Latent	1852 W
Sensible	2632 W
Unit free standing	44391 ft²/h
One side against a wall	27969 ft²/h
Noise values	65 dBA

Connected load electric

Hot air connection:	36 kW
Steam connection:	36 kW
Connected load electric:	37 kW

Water Requirements

Connection	3/4"
Supply	Minimum 1/2" ID Drinking Quality Cold
Pressure	21-87 psi (1.5-6 bar)
Average Water	2.9 gal/h
Consumption	
Min/Max Flow Rate	3 gpm/6.59 gpm
Water Drain	2" OD (50 mm) hub

Connect only to 2" (XS = 1 5/8") 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 (Cl2)	< 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

RATIONAL USA Inc.

1701 Golf Road, Suite C-120, Commercium Rolling Meadows, IL 60008

Toll Free: 888-320-7274, Fax.: 847-755-9583

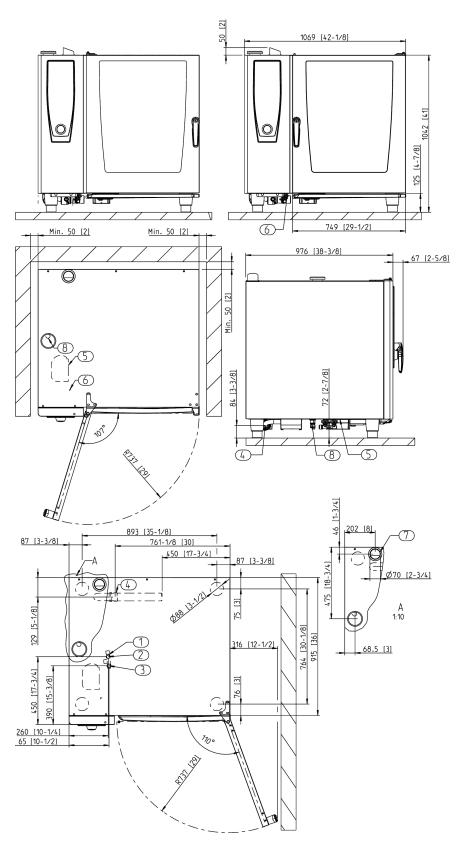
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CombiMaster® Plus CMP 102 E (10 x 18 x 26 inch/20 x 12 x 20 inch)



1. Common water supply (cold water) "Single" water connection as shipped 2. Water supply cold water / condensate "Split" water connection 3. Water supply cold / Treated "Split" water connection 4. Water drain 5. Electrical connection wire entrance 6. Chassis Ground connection 7. Steam Vent pipe DN 2 3/4" / 70 mm minimum distance 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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Project:	Quantity:	Item No:	FCSI Section:	Approval:	Date:
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CombiMaster[®] Plus CMP 102 E (10 x 18 x 26 inch/20 x 12 x 20 inch)

ELECTRICAL OPTIONS (all 60Hz) Special voltages available upon request					
_	_	Voltage / breaker / running amps / AWG			
	_	240V 3 Ph / 150/ 118.6 / #2			
	480V 3 Ph / 70 / 52.6 / #4 – field retrofittable to 440 V	440V 3 Ph / 60 / 48.6 / #4			
AC	CESSORIES				
	Installation Kits – include electrical, water and drainage connection				
	□ 208 or 240/60/3Ph		8720.1554US		
	☐ 480 or 440/60/3Ph		8720.1551US		
	RATIONAL Cleaner Tabs without phosphorous – guarantee maximum of	cleaning power	56.00.210A		
	RATIONAL Rinse Tabs	31.	56.00.211		
	Electric descaler pump		60.40.497		
	Descaler, 4x 1 gallon case		6006.0110US		
	Certified installation by RATIONAL SERVICE-PARTNERS		See document		
	Preventative Maintenance Kits – door gaskets, air filters, interior light ga	asket, and light bulbs	87.00.523US		
	Available stands – standard (stationary) and mobile (open or closed)	,	See accessories brochure		
	Mobile catering stand – especially for heavy mobile catering usage		60.30.891		
	Catering kit for mobile catering stand – support frame and feet		60.73.141		
	Mobile oven racks and Finishing® plate racks – easier operation of full	loads	See accessories brochure		
	Run-in rail for mobile oven and plate racks		60.62.094		
	Transport trolley for mobile oven and plate racks – standard and height	adjustable	See accessories brochure		
	Stackable Combi-Duo kit, – for stacking with 61 gas or electric - options	s: mobile or feet	See accessories brochure		
	Heat shield – for installation next to heat source (e.g. range, grill)		60.70.393		
	Condensation breaker – to divert steam from the unit into existing hood	system	60.72.592		
	UltraVent recirculating hood		60.74.972		
	UltraVent Plus recirculating hood		60.74.976		
	RATIONAL USB data-memory stick – for transferring cooking programs	s and HACCP data	42.00.162		
	VarioSmoker – for a large variety of smoked products		60.73.010		
	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				
	Left-hinged door 480V / 440V Ethernet card and port – for easy connection of LAN cable				
	Door safety lock - handle is turned left then right before the door can be	e opened			
	Sous-Vide core temperature probe (externally attached) Externally attached standard core temperature probe				
	Lockable control panel cover				
	Control panel protection Mobile oven rack package (mobile oven rack + run-in rail)				
	Unit with special hinging racks for bakeries and supermarkets				
	Integrated fat drain (only in conjunction with UG II or US IV stands) Marine version (electric units only)				
ā	Security and prison version				

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