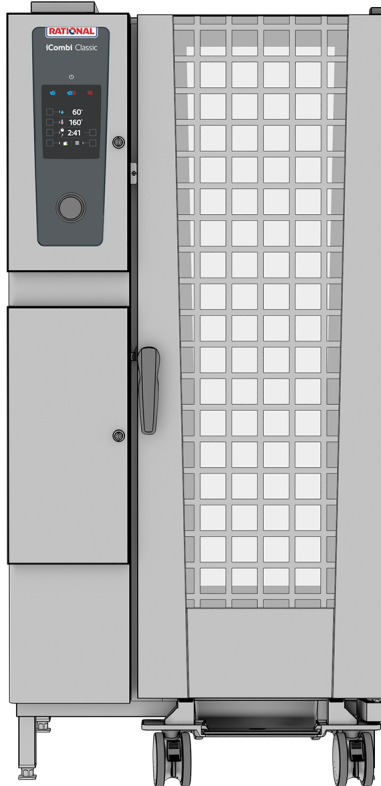


iCombi® Classic 20-half size E/G SecurityLine



Description

- > Combi-steamer in accordance with DIN 18866 for most cooking methods used in commercial kitchens for optional use of steam and convection, individually, one after the other, or combined.

Unit description and functions

Cooking functions

- > **ClimaPlus:** The active climate management in the cooking cabinet, which constantly measures and controls the humidity and guarantees effective dehumidification, combined with high productivity, cooking quality and low energy consumption. Humidity can be adjusted in increments of 10% and monitored via the digital display for precise manual cooking
- > Dynamic air circulation in the cooking cabinet through 3 reversing high-performance fan propellers with five fan speeds that can be programmed manually. The optimal energy yield results in excellent uniformity and short cooking times.
- > High-performance steam generator for optimal steaming performance even at low temperatures below 212°F
- > Integrated, maintenance-free fat separation system without an additional fat filter
- > Cool-down function for quick cooling of the cooking cabinet via a fan propeller
- > Core temperature measurement via core temperature probe and optional positioning aid (accessories)
- > Delta-T cooking for extremely gentle preparation with minimal cooking losses
- > Digital temperature display, can be set to °C or °F, displays target and actual values
- > Cooking cabinet humidity and time displayed digitally; displays target and actual values
- > Individual programming of up to 100 single or multi-stage cooking programs with up to 12 steps
- > Individual adjustment of the cooking parameters time, temperature and humidity for a program step during ongoing operation
- > Easy transfer of cooking programs to other cooking systems via USB stick.
- > Integrated hand shower with automatic retraction and switchable spray/jet function
- > Energy-saving, long-lasting LED lighting in the cooking cabinet, with excellent color fidelity to allow quick determination of cooking progress
- > No-charge 4-hour RATIONAL certified chef assistance program

Capacity

- > Twenty (20) Half-size sheet pans or
- > Twenty (20) Steam table pans or
- > Twenty (20) 1/1 GN
- > Mobile oven rack with 2 1/2 inch rack spacing and tandem casters (63 mm)
- > Handle holder for mobile rack
- > Large selection of accessories for various cooking procedures, such as grilling, braising or baking
- > For use with 1/1, 1/2, 2/3, 1/3 GN accessories

Combi-steamer mode

- > Steaming 86 °F - 266 °F
- > Convection 86 °F - 572 °F
- > Combination of steam and convection 86 °F - 572 °F

ClimaPlus

- > Climate management – humidity measurement and control
- > Humidity setting in 10-% increments

Occupational and operating safety

- > Electronic safety temperature limiter for steam generator and convection heating
- > Integrated fan wheel brake
- > Use of Active Green cleaning tabs and Care tabs (solid cleaning agent) for ideal occupational safety levels
- > HACCP data memory and output via USB
- > Tested according to national and international standards for unsupervised operation
- > Maximum tray height 63 inch when using RATIONAL mobile oven rack with 20 trays, 2 4/8 inch rack spacing (loss of USPHS certification)
- > Lockable control panel protection with shatterproof polycarbonate window and lockable care drawer and hand shower
- > Lockable cooking cabinet door (optional)
- > Cooking cabinet door can be unlocked from the inside (optional)
- > Mobile oven rack with permanently connected, folding handle to prevent misuse
- > Safety door with stainless steel grille on the outer glass pane to protect against vandalism

Networking

- > Integrated, IP-protected USB interface for local data exchange
- > Optional integrated IP-protected Ethernet interface
- > Optional integrated Wi-Fi interface (incl. Ethernet interface)

Cleaning and care

- > Automatic, water pressure-independent cleaning and maintenance system for cooking cabinet and steam generator
- > Care system: Automatic cleaning and descaling of the steam generator
- > 4 cleaning programs of varying degrees for unsupervised cleaning, including overnight
- > Easy and intuitive operation of the cleaning programs: Display of the selected cleaning program, the recommended quantity of tabs and the remaining cleaning time
- > Safe ending of the cleaning in the event of a power failure with no cleaning agent left in the cooking cabinet
- > Use of phosphate and phosphorous-free Active Green cleaner tabs and care tabs
- > Unit door with rear-ventilated double glass panel and hinged inner pane for easy cleaning

- > Inside and outside material: stainless steel DIN 1.4301 / ASTM 304, seamless hygienic cooking cabinet with rounded corners and optimized air flow
- > Glass and stainless steel surfaces allow easy, safe external cleaning; IPX5-class protection against spraying water in all directions

Operation

- > 4.3 inch TFT color display and softkeys for easy and intuitive operation. Operating modes and functions are visually highlighted
- > Easy operation and exact settings through a central dial with push function
- > Acoustic prompts and visual messages when user action is required
- > Recirculating hoods (accessories) with situational adjustment of extraction power and service message transmission.

Installation, maintenance and environment

- > Professional installation by RATIONAL-certified technicians recommended
- > Fixed waste water connection conforming to SVGW requirements is permitted
- > Adaptation to the installation site (height above sea level) through automatic calibration
- > Operation without water softener and without additional manual descaling possible
- > Flush-mounted installation *
- > Double-pane glass door with integrated sealing mechanism for minimal energy losses
- > Service diagnostic system with automatic service message display
- > Regular maintenance is recommended. Maintenance according to manufacturer recommendations available from RATIONAL service partners
- > 2-year RATIONAL warranty including parts, labor, and travel and 5-year steam generator warranty**
- > * See the installation or planner manual for details
- > ** Terms and conditions apply, see manufacturer warranty statement at www.rational-online.com

Options

- > MobilityLine - mobile version (available to order as a separate accessory)
- > Integrated, IP-protected Ethernet interface
- > Integrated Wi-Fi interface (incl. Ethernet interface)

Technical specifications

Dimensions and weights

Dimensions (W x H x D)	
Cooking system (body)	34 1/2 x 71 1/8 x 33 3/8 inches
Cooking system (total)	34 1/2 x 73 3/4 x 35 7/8 inches
Cooking system with packaging	39 5/8 x 80 3/8 x 39 7/8 inches
Maximum working height of top level*	≤ 5 ft. 2 7/8 inches

* when using a RATIONAL mobile rack, Size 20-half size with 20 levels, level spacing 62 mm

Weights	
Maximum load size per level	33 lb
Maximum total load capacity	198 lb
Weight - electric unit without packaging	509 lb
Weight - electric unit with packaging	590 lb
Weight - gas unit without packaging	608 lb
Weight - gas unit with packaging	690 lb

Electrical connection conditions

Voltage 3 AC 208 V / 240V	
Connected loads - electric	37.2 kW
Steam power	36 kW
Convection power	36 kW
Breaker	125 A
Connection impedance	0.09 Ω
RCD type	B
Cable diameter	AWG 2 194°F
Voltage 3 AC 440 V / 480 V	
Connected loads - electric	37.2 kW
Steam power	36 kW
Convection power	36 kW
Breaker	60 A
Connection impedance	0.09 Ω
RCD type	B
Cable diameter	AWG 4 140°F

Connected loads - gas

Natural gas G20	
Nominal heat load, total	159500 BTU
Nominal heat load, Steam mode	144500 BTU
Nominal heat load, Hot Air mode	159500 BTU
Required connection flow pressure	6.5 – 10 inch w.c.
Liquid gas	
Nominal heat load, total	156000 BTU
Nominal heat load, Steam mode	141000 BTU
Nominal heat load, Hot Air mode	156000 BTU
Required connection flow pressure	10 – 15 inch w.c.

3/4" NPT with 3/4" gas shut off

Additional gas types and voltages available on request

Connected loads - gas

Voltage 2 AC 208 V	
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Connected loads - gas	1.3 kW
Breaker	15 A
RCD Type	B
Voltage 1 NAC 120 V	
Connected loads - gas	1.3 kW
Breaker	15 A
RCD Type	F

Connection conditions water

Water inlet (pressure hose), each	3/4"
Water pressure (flow pressure), each	14.5-87.0 psi
Water drain, each	2" OD
Maximum flow rate per cooking system	3.17 gal/min

Water quality requirements

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

Connected loads - exhaust air and thermal load

Latent heat load	6492 BTU
Sensible heat emission	8639 BTU
Sound level (electric)	60 dBA
Sound level (gas)	65 dBA

Connection loads - data

LAN data interface	RJ45
WiFi data interface	IEEE 802.11 a/g/n

Minimum distances at installation

Clearance Requirements

To facilitate servicing, we recommend leaving a 20" (500 mm) gap on the left-hand side of the unit. If there is not 20" (500 mm) left side clearance available, provisions for moving the unit to the left for service access must be made. Such provisions 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 at least 2" (50 mm) of clearance on either side of the unit. The back of the unit can be mounted flush with the wall.

If a high temperature heat source is on the left side of the unit, clearance of at least 14" (350 mm) must be maintained on the left-hand side. This clearance may be reduced to 2" (50 mm) if a heat shield is used (see accessories).

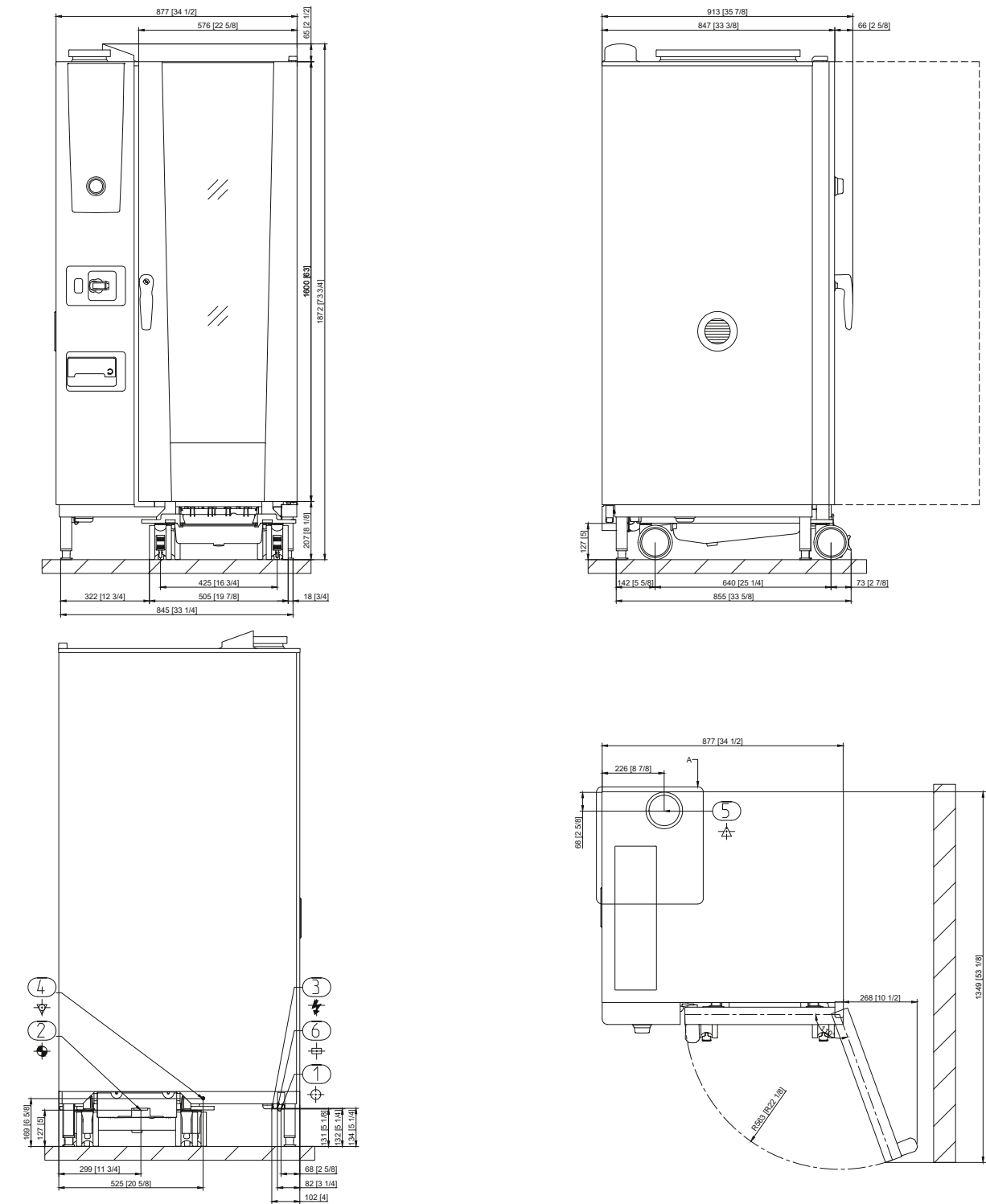
Recommended clearance from unobstructed rear exhaust pipes and any surface collecting grease or flammable material; 16" (400 mm) gas, 10" (254 mm) electric. It is recommended to have a hood overhang of 6" (150 mm) to 18" (450 mm) at the front of the unit and 6" (150 mm) on the sides if installed at the end of the cooking line. Please refer to the Installation Manual for additional technical data and for instructions on installation and setup.

Installation conditions

- > Observe all local and country-specific standards and regulations regarding the installation and operation of industrial cooking appliances. The local standards and regulations for interior ventilation systems must also be taken into account.

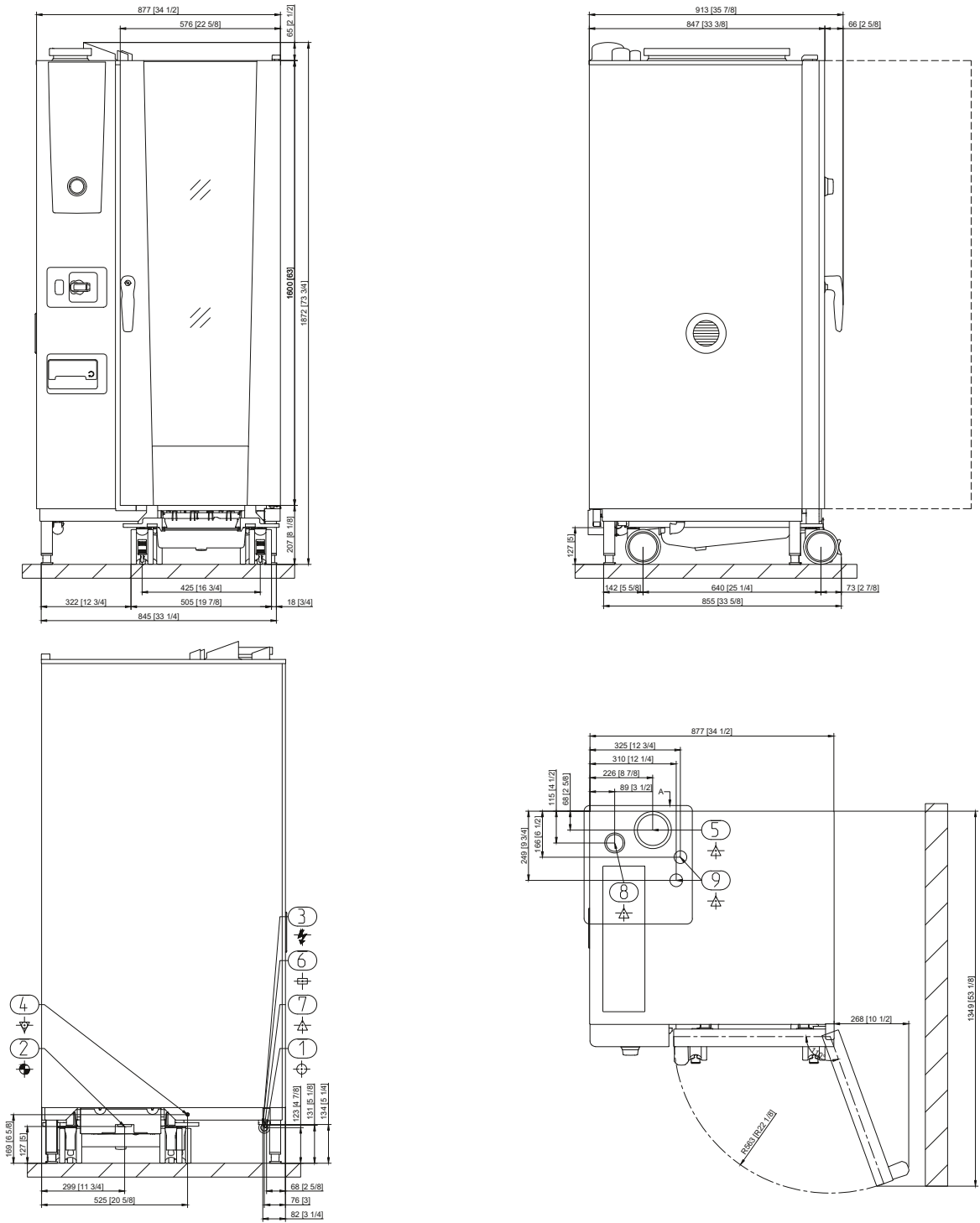
Approvals

Technical drawing, electrical



1	Water inlet
2	Water drain
3	Electrical connection
4	Equipotential bonding
5	Ventilation pipe
6	Ethernet interface

Technical drawing, gas



1	Water inlet
2	Water drain
3	Electrical connection
4	Equipotential bonding
5	Ventilation pipe
6	Ethernet interface
7	Gas connection
8	Exhaust pipe gas (steam)
9	Exhaust pipe gas (convection)

Accessories

Accessories	Item number
Heat shield – for installing a unit near a heat source, e.g. a grill - Size 20-half size	Item no. 60.75.829
RATIONAL USB stick – to securely transfer cooking programs and HACCP data	Item no. 42.00.162
RATIONAL Double Water Filter - for Combi Duo 6-full size/6-full size and 6-full size/10-full size or if used for more than 2 units	Item no. 1900.1150US
RATIONAL Single Water Filter - for all single models and Combi-Duo XS/XS, 6-half size/6-half size and 6-half size/10-half size	Item no. 1900.1154US

We offer a wide range of cooking accessories to help you achieve ideal cooking results; for more information, please consult our accessories brochure, ask your dealer, or visit www.rational-online.com

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