

Standard Features

- Factory Installed Boiler/System Modulating Pump
- Onboard Outdoor Reset Control System with Sensor Standard
- Priority Domestic Hot Water (DHW) Standard
- Built-in DHW Plate Heat Exchanger
- Modulating Ceramic Premix Burner
- 4.2:1 Turndown Ratio
- Spark Ignition
- Exceeds SCAQMD 1146.2 Low NO_x Requirements
- Stainless Steel Water Tube Condensing Heat Exchanger
- Direct Vent Sealed Combustion
- Twin Pipe Venting Adapters Included
- Approved for Room and Closet Installations (Zero Clearance to Combustibles)

Optional Accessories

- RS100 Single Zone Controller
- Flue Gas Temperature Sensor
- Room Air Filter
- Flow Switch Conversion Kit
- Low Loss Header Plumbing Kit
- Low Loss Header Side Mount Kit

SPECIFICATIONS

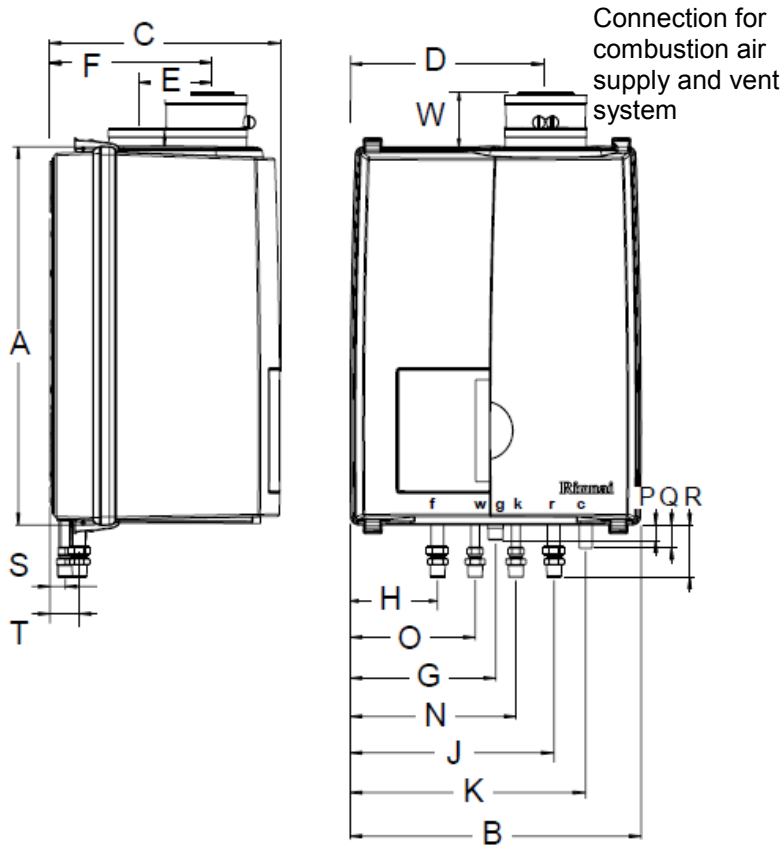
General Specifications	
Water Content	1.3 Gal / 4.8 L
Max. Supply Boiler Temperature	176 °F / 80 °C
Max Operating Pressure	45 PSI / 310 kPa
Relief Valve Rating	375 MBH / 110 kWh
Relief Valve Pressure Rating	30 PSI / 207 kPa
Unit Weight	92 lbs / 42 kg
Min Inlet Gas Pressure NG	4.0" WC / 10.0 mbar
Max Inlet Gas Pressure NG	10.5" WC / 26.2 mbar
Min Inlet Gas Pressure LP	8.00" WC / 19.9 mbar
Max Inlet Gas Pressure LP	13.5" WC / 33.6 mbar
Electrical Voltage Mains	120 V / 60 Hz
Electrical Voltage Controls	24 V
Power Consumption Max Load	145 W
Power Consumption Standby Load	14 W
Recommended Circuit Breaker Rating	15 A
Sound Level	49 dB

Performance Specifications	
Fuel Types	NG and LP
Input (Heating)	110 MBH / 32.2 kWh
Heating Capacity	101 MBH / 29.6 kWh
Input (DHW)	130 MBH / 38.1 kWh
Minimum Input	NG: 26 MBH / 7.6 kWh LP: 59 MBH / 17.4 kWh
Turndown Ratio	4.2:1 / 1.9:1 TDR
System Pump Model	UPER 20-78
Max Head Pressure at Flow Rate	13.8 ft at 5.0 GPM 4.2 m at 18.9 LPM
AFUE	95.5%
DHW Flow Rate 75°F ΔT	3.2 GPM / 12.1 LPM
DHW Minimum Activation	0.5 GPM / 2.0 LPM
Flow Restrictor Color	Green
Max Equivalent Exhaust Vent Length	100 ft / 30.5 m
Max Equivalent Combustion Air Vent Length	100 ft / 30.5 m
Approved Venting Materials	Polypropylene, Stainless Steel, PVC, CPVC



Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to installation.

DIMENSIONS



A	Height	25.6" / 650 mm
B	Width	19.7" / 500 mm
C	Depth	15.6" / 395 mm
D	Left Side / Vent	13.2" / 335 mm
E	Center to center / Vent and Air Supply	4.7" / 120 mm
F	Back / Vent	10.6" / 270 mm
G	Left Side / Gas Pipe	9.8" / 250 mm
H	Left Side / Supply Pipe	5.9" / 150 mm
J	Left Side / Return Pipe	13.8" / 350 mm
K	Left Side / Condensate Pipe	15.9" / 405 mm
N	Left Side / Cold Water Pipe	11.2" / 285 mm
O	Left Side / Hot Water Pipe	8.5" / 215 mm
P	Pipe Length of G	1" / 26 mm
Q	Pipe Length of C	1.6" / 40 mm
R	Pipe Length of F, K, R, and W	3.5" / 90 mm
S	Back / Center of Pipes C, K, and W	1" / 26 mm
T	Back / Center of Pipes F, G, and R	1.9" / 49 mm
V	Pipe Length Vent Co-axial Pipe Length Vent Parallel	3.7" / 95 mm 7" / 177 mm

Additional Information:

- If the boiler is to be installed in a system that utilizes zone circulators and not zone valves a low loss header plumbing kit is required to be installed.
- If the pressure drop in the loop/system is greater than the available head pressure from the boiler circulator a Low Loss Header Plumbing kit part number: 804000061 must be used.
- If the boiler is installed in a system with zone valves and the constant recirculation function is activated then a differential pressure bypass valve or a low loss header plumbing kit is required to be installed.

Shipping Specifications:

- Shipping Weight: 104 lbs (47 Kg)
- Shipping Dimensions: 34" x 17" x 22" (86 cm x 44 cm x 55 cm)

Clearances

	Minimum required clearance to combustibles and non-combustibles	Recommended service clearances
Top	2" / 50 mm	10" / 250 mm
Back	0	0
Front	6" / 150 mm	24" / 600 mm
Left Side	2" / 50 mm	2" / 50 mm
Right Side	2" / 50 mm	2" / 50 mm
Floor / Ground	12" / 300 mm	12" / 300 mm
Vent	0	0