

Q175C Condensing Boiler

Standard Features

- Onboard outdoor reset control system with sensor standard
- Prebuilt plumbing kit with insulated Low Loss Header
- Priority DHW standard (3 way valve not included)
- Domestic hot water plate warming
- Built in DHW 6.6 gallon indirect tank
- Modulating Ceramic premix burner
- 5:1 turn down ratio
- Spark ignition
- Exceeds SCAQMD 1146.2 Low NO_x requirements
- Stainless Steel Water tube condensing heat exchanger
- Direct Vent sealed combustion
- Concentric and twin pipe venting adapters included
- Approved for room and closet installations

Optional Accessories

- RS100 Single zone controller
- Flue Gas temperature sensor
- Room Air Filter
- NG to LP conversion Kit
- LP to NG Conversion Kit

SPECIFICATIONS

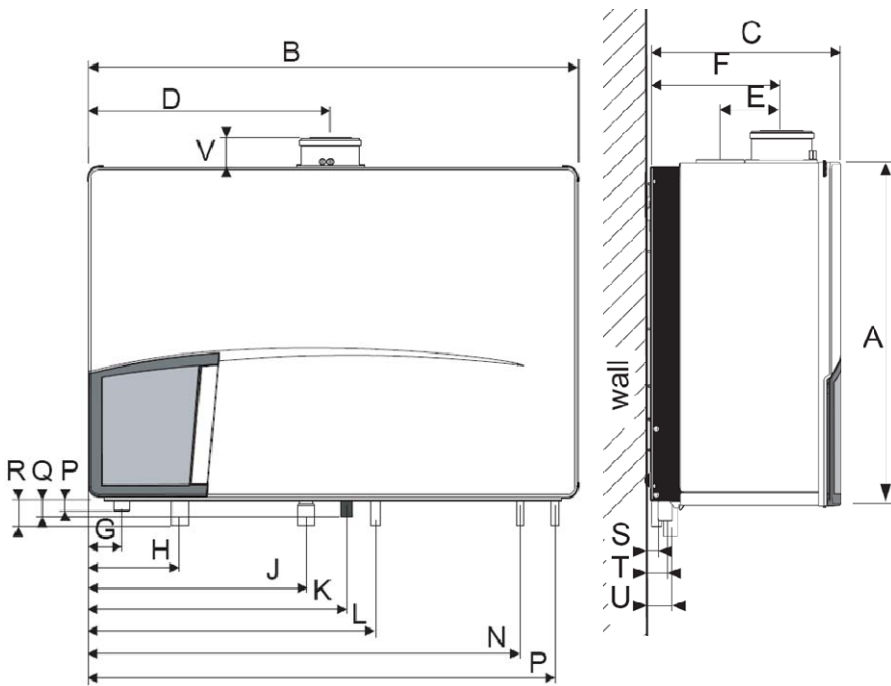
| General Specifications | | |
|---|-------|---|
| | Units | |
| Water content | gal | 1.8 |
| Max. supply boiler temperature | °F | 176 |
| Max operating pressure | psi | 45 |
| Relief valve rating | MBH | 375 |
| Relief valve pressure rating | psi | 30 |
| Dry weight | lbs | 196 |
| Min inlet gas pressure NG | "W.C. | 4.0" |
| Max inlet gas pressure NG | "W.C. | 10.5" |
| Min inlet gas pressure LP | "W.C. | 8.0" |
| Max inlet gas pressure LP | "W.C. | 14.0" |
| Max equivalent exhaust vent length | ft | 80 |
| Max equivalent combustion air vent length | ft | 80 |
| Approved venting materials | | Polypropylene, Stainless Steel, PVC, CPVC |

| Performance Specifications | | |
|------------------------------|-------|-------|
| | Units | |
| Fuel Type | | NG/LP |
| Input | MBH | 175 |
| Heating Capacity | MBH | 161 |
| AFUE (I=B=R) | % | 95.7 |
| Part Load Efficiency (EN677) | % | 98.5 |
| DHW flow rate 75°F ΔT | Gpm | 4.1 |

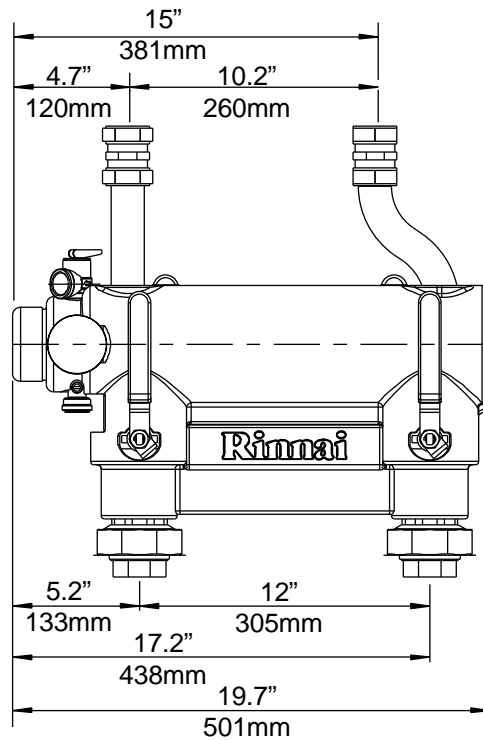
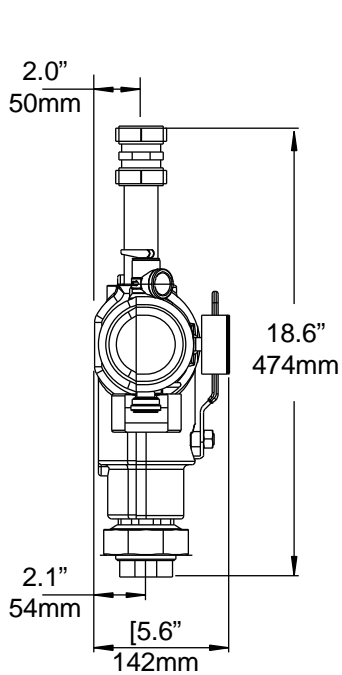
| Electrical Specifications | | |
|------------------------------------|-------|--------|
| | Units | |
| Electrical Voltage Mains | V/Hz | 120/60 |
| Electrical Voltage Controls | V | 24 |
| Power Consumption Max Load | W | 210 |
| Power Consumption Stand by Load | W | 14 |
| Recommended Circuit breaker rating | A | 15 |

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



| | | inch / mm |
|---|--|-----------------------|
| A | Height | 26.8 / 680 |
| B | Width | 39.4 / 1000 |
| C | Depth | 15.2 / 385 |
| D | Left side / vent | 19.5 / 495 |
| E | Center to center / vent and air supply | 4.7 / 120 |
| F | Back / vent | 10.6 / 270 |
| G | Left side / gas pipe | 2.6 / 65 |
| H | Left side / supply pipe | 7.3 / 185 |
| J | Left side / return pipe | 17.5 / 445 |
| K | Left side / condensate pipe | 20.9 / 530 |
| L | Left side / expansion pipe | 23.2 / 590 |
| N | Left side / cold water pipe | 34.8 / 885 |
| O | Left side / hot water pipe | 37.6 / 955 |
| P | Pipe length of g | 0.7 / 18 |
| Q | Pipe length of c | 2 / 50 |
| R | Pipe length of e, f, k, r, and w | 2.3 / 60 |
| S | Back / center of pipe c | 1 / 25 |
| T | Back / Center of pipe g | 1.6 / 40 |
| U | Back, / center of pipe e, f, k, r, and w | 2 / 50 |
| V | Pipe length vent co-axial Pipe length vent parallel | 2.6 / 65 5.8 / 147 |



Clearances

| | Minimum required clearance to combustibles and non-combustibles | Recommended service clearances |
|----------------|---|--------------------------------|
| | inch / mm | inch / mm |
| Top | 2 / 50 | 10 / 250 |
| Back | 0 | 0 |
| Front | 6 / 150 | 24 / 600 |
| Left side | 2 / 50 | 2 / 50 |
| Right side | 2 / 50 | 2 / 50 |
| Floor / Ground | 12 / 300 | 30 / 762 |
| Vent | 0 | 0 |