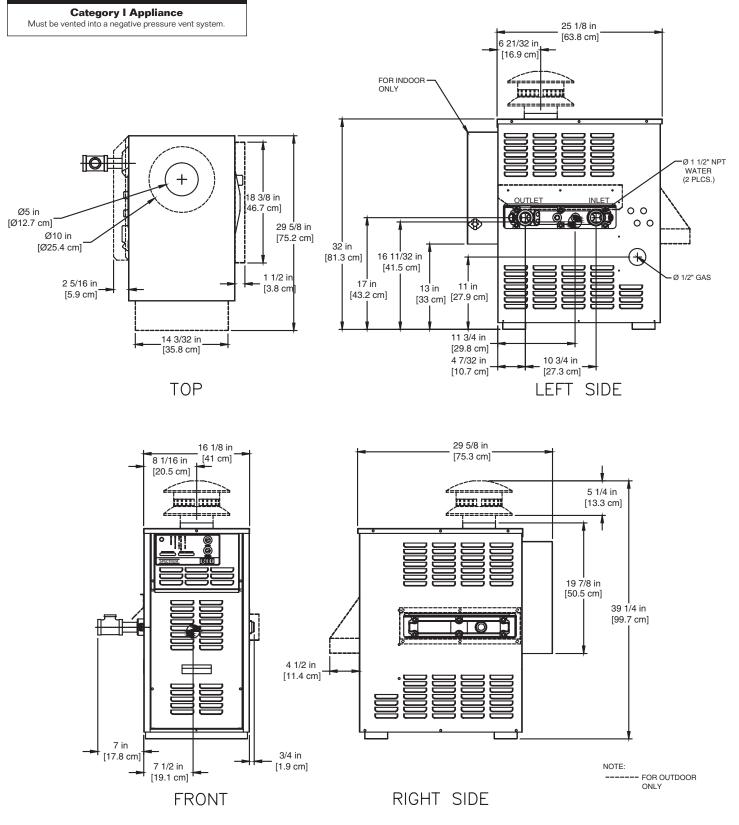
**SPECTRUM 100** 



RSUB-1-C

Spectrum 100 model boiler & water heater not available for sale in the U.S. market due to DOE regulations. Spectrum 100 model water heater not available for sale in Canada.

Notes:

- Dimensions are approximate and should not be used to "rough-in" equipment.
   Dimensions are subject to change without notice.

# **BOILER CERTIFIED RATINGS & CAPACITIES**

| Fuel Type                      | Natural/Propane Gas   | Boiler FLA                 | 1*                |
|--------------------------------|-----------------------|----------------------------|-------------------|
| Input BTU/hr.                  | 100,000 / 29 kW       | Min. Gas Pressure Required | 5" WC**           |
| Output BTU/hr.                 | 82,000 / 24 kW        | Max. Gas Pressure Allowed  | 14" WC            |
| <b>Electrical Requirements</b> | 120VAC / 1 ph / 60 hz | Operating Weight           | 164 lbs. / 74 kg. |

## **BOILER / WATER HEATER TRIM & CONTROLS**

| Gas Valve - INT                  | Honeywell VR8304M 1/2"         | Ignition Control (SB) | Honeywell S9361A2085      |
|----------------------------------|--------------------------------|-----------------------|---------------------------|
| Gas Valve                        | Honeywell VR8304Q 3/4"- 2 Stg. | Ignition Control (SW) | Honeywell S86IOM          |
| <b>Operating Control (SB/SW)</b> | Honeywell - On/Off             | Relief Valve - SW     | 3/4" x 3/4" set @ 125 psi |
| <b>Operating Control (SW)</b>    | Jumo - 2 Stage                 | Relief Valve - SB     | 3/4" x 3/4" set @ 30 psi  |
| High Limit (SB/SW)               | Jumo                           | Flow Switch           | TACO                      |

#### A.S.M.E.

| ASME Sect IV Htg Surface | 19.1 Sq. Ft. / 1.77 Sq. M.                 | Design Data | Max. 160 psig & 250°F |
|--------------------------|--|-------------|-----------------------|
| Water Volume             | Vater Volume         1.1 gal / 4.05 Liters |             |                       |

\* Add circulator amps.

\*\* For incoming gas pressures lower than 5" WC natural or 11" WC propane, consult factory.

## **BOILER TEMPERATURE RISE / PRESSURE DROP**

|           |      | _   |        |         |        |
|-----------|------|-----|--------|---------|--------|
| Flow Rate |      |     | Pressu | re Drop | -      |
|           | GPM  | L/s | Ft     | kPa     |        |
|           | 16.4 | 1.0 | 0.05   | 0.1     | 2 Pass |
|           | 16.4 | 1.0 | 0.34   | 1.0     | 4 Pass |

## WATER HEATER HOURLY RECOVERY CAPACITY (GPH & LPH)

| 40°F | 22°C | 60°F | 33°C | 80°F | 44°C | 100°F | 56°C | 120°F | 67°C | 140°F | 78°C |
|------|------|------|------|------|------|-------|------|-------|------|-------|------|
| 240  | 908  | 160  | 605  | 120  | 454  | 96    | 363  | 80    | 303  | 69    | 259  |

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| REP FIRM                       | SPECTRUM 100  |  |  |  |  |
|--------------------------------|---|--|--|--|--|
| JOB NAME                       | Category I Appliance           Must be vented into a negative pressure vent system.                 |  |  |  |  |
| ENGINEER<br>CONTRACTOR<br>DATE | <ul> <li>A Division of Mestek, Inc.</li> <li>Westfield, MA 01085</li> <li>(413) 568-9571</li> </ul> |  |  |  |  |