• **Standard Input** - gas consumption ranges from 16,000 BTUh to 199,900 BTUh

• **Compact Design** - ANSI Z21.10.3/CSA 4.3 certified design that can be wall-mounted indoors with a -DV model or installed outdoors with an -OD model

• **Durable Stainless Steel Casing**

• **Heat Exchanger** - manufactured with commercial grade copper, 25% thicker piping than standard models

• **Venting Options** - available in Outdoor (-OD) or Direct Vent (-DV) model that can use either Schedule 40 PVC/CPVC

• **Direct Electronic Ignition**

• **Multi-System Capability** - units can be linked together by using either the optional 2-unit Quick Connect or multi-unit System Controller for up to 24 units.

• **Thermal Efficiency** - fully condensing, 94% efficient for use with natural gas and propane

• **Temperature Controls** - includes remote thermostat that can precisely adjust the output temperature from 100°F to 185°F

• **Safety Devices** - Flame Sensor, Overheat Prevention Device, Lightning Protection Device, Freeze Protection, Neutralizer Overfill

• **Five Year Limited Heat Exchanger Warranty for Commercial Use**

• **Five Year Limited Parts Warranty**

• **Approvals** - CSA, UPC, NSF, Low NOx Approved by SCAQMD [<14ng/J or 20ppm] This product complies with California AB 1953 Low Lead Law and section 1417(d) of the Safe Drinking Water Act

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**Model NCC1991 Series**

**Commercial Condensing Water Heater**

**Specification Sheet**

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**Job Name** ________________________________

**Location** ________________________________

**Architect/Engineer** ________________________________

**Wholesaler** ________________________________

**Contractor** ________________________________

**Model No.** ________________________________

**Gas Type** ________________________________

**No. of Units** ________________________________

**Total BTU/hr Input** ________________________________

**Flow Rate (GPH)** ________________________________

**Notes** ________________________________

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**Model**

- NCC1991 - _____
  - OD (Outdoor Vent)
  - DV (Direct Vent)

**Accessories**

- Horizontal Hood Termination (#PVT-HL)
- 3" PVC Termination (#VK3-H-PVC)
- Birdscreen for 3" PVC/CPVC (#VT3-PVCS)
- Birdscreen for 4" PVC/CPVC (#VT4-PVCS)
- Condensate Neutralizer (#NC-1)
- Isolation Valves (#IK-WV-200-1)
- Pipe Cover (#PC-3S-SUS)
- Quick Connect Cord (#QCC-2)
- SV Conversion Kit (#SV-CK-3)

**System Controller**

- 6-unit (#SC-301-6M)
- 12-unit (#SC-301-12M)
- 24-unit (#SC-301-24M)
### Dimensions

- **FROM BOTTOM OF CASE**
  - **HEIGHT OF EACH FITTING**
    - GAS INLET: 2.2" (56 mm)
    - COLD WATER INLET: 2.2" (55 mm)
    - HOT WATER OUTLET: 1.7" (44 mm)

### Specifications

#### Flow Rates

<table>
<thead>
<tr>
<th>Temperature Rise (°F)</th>
<th>30</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
<th>90</th>
<th>100</th>
<th>110</th>
<th>120</th>
<th>130</th>
<th>140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate (GPM)</td>
<td>11.1</td>
<td>9.3</td>
<td>8.4</td>
<td>7.4</td>
<td>6.2</td>
<td>5.3</td>
<td>4.6</td>
<td>4.1</td>
<td>3.7</td>
<td>3.4</td>
<td>3.1</td>
<td>2.9</td>
<td>2.7</td>
</tr>
</tbody>
</table>

#### Pressure Loss

- **Bypass Flow Control Valve Closed**
  - Set temperature: 120°F or less
  - Storage Tank Setting W/ System Controller: 160°F or less

- **Bypass Flow Control Valve Open**
  - Set temperature: 125°F or higher
  - Storage Tank Setting W/ System Controller: 170-185°F

### Weight

- **OD Model**: 66 (pounds)
- **DV Model**: 68 (pounds)

### Operating Pressure

- NG: 15 - 150 psi
- LP: 8.0" - 14.0"

### Powers

- **Supply**: 120VAC (60Hz), less than 4 amperes
- **Consumption**
  - NG: 78W
  - LP: 80W
  - Freeze Prevention 223W
  - NG: 81W
  - LP: 83W
  - Freeze Prevention 223W

### Freeze Protection

- **Outdoor**: -4°F
- **Indoor**: -30°F

### Temperature Settings

- **°F Mode**
  - 100-150°F (in 5°F intervals), 160, 170, 185°F (14 Options)
- **°C Mode**
  - 37-48°C (in 1°C intervals), 50-85°C (in 5°C intervals) (20 Options)

### Default Temperature Options

- **°F Mode**
  - 120, 135, 140, 185°F (Default is 120°F)
- **°C Mode**
  - 50, 57, 60, 85°C (Default is 50°C)

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