Model NR981 Series
Residential Tankless Water Heater
Specification Sheet

- Standard Input - gas consumption ranges from 16,000 BTU/h to 199,900 BTU/h
- Capacity Range - flow rates from 0.5 gpm up to 9.8 gpm
- Compact Design - ANSI Z21.10.3/CSA 4.3 certified design that can be wall-mounted indoors (-SV and -DVC models only) or installed outdoors with an -OD model
- Durable Steel Casing with Polyester Coating
- Heat Exchanger - manufactured with commercial grade copper, 25% thicker piping than standard models
- Venting Options - available in Power Vent (-SV), Outdoor (-OD), or Concentric Direct Vent (-DVC) model that requires either 4" Category III or 5"/3" Noritz concentric stainless steel pipe
- Direct Electronic Ignition
- Quick-Connect - two identical units can be linked together by using the optional Quick Connect Cord (#QC-2) for twice the hot water capacity
- Energy Factor - 0.82 (NG) 0.88 (LP) for all NR981 Series models
- Thermal Efficiency - 84% efficient for use with natural gas or propane
- Temperature Controls - includes remote thermostat that can precisely adjust the output temperature from 100°F to 140°F with the capability to display temperatures in both °C and °F
- Power Cord Installation Kit - 6' power cord is included with -SV and -DVC models (assembly required for SV models)
- Safety Devices - Flame Sensor, Overheat Prevention Device, Lightning Protection Device, Freeze Protection
- Additional Features - Temperature Lockout, High Elevation Adjustment, Service Reminder Function

- 12-Year* Limited Heat Exchanger Warranty for Residential Use
- 5-Year Limited Parts Warranty
- 1-Year Reasonable Labor
- Approvals - CSA, UPC**, NSF, Low NOx Approved by SCAQMD (<14ng/J or 20ppm),

Model NR981 - ______

☐ SV (Standard Vent)
☐ OD (Outdoor Vent)
☐ DVC (Concentric Direct Vent)

Accessories

☐ Isolation Valves (#IK-WV-200-1)
☐ Pipe Cover for SV/OD Model (#PC-2S)
☐ Pipe Cover for DVC Model (#PC-5S)
☐ Acess Box for OD Model (#RB-700-1)
☐ Quick Connect Cord (#QC-2)

* Heat Exchanger warranty is maintained at 12 years or 6500 operational hours, whichever occurs first, when used in a single family dwelling in conjunction with a controlled recirculation system (an aquastat being the minimum pump control requirement) in accordance with the Installation Manual. Refer to the Noritz Limited Warranty for complete coverage details

** This product complies with California AB 1953 Low Lead Law and Section 1417(d) of the Safe Drinking Water Act
### Dimensions

- **OD Model**
  - **Flue Collar:** 4.0" (100mm)
  - **Air Inlet:** 4.8" (122mm)
  - **1.6" (40mm)
  - **3.7" (94mm)
  - **5.0" (127mm)

- **DVC Model**
  - **Flue Collar:** 4.0" (100mm)
  - **Air Inlet:** 3.1" (79mm)
  - **1.1" (28mm)
  - **2.8" (71mm)
  - **0.4" - 1.8" (10mm - 45mm)

### 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>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate (GPM)</td>
<td>9.8</td>
<td>8.4</td>
<td>7.5</td>
<td>6.7</td>
<td>5.6</td>
<td>4.8</td>
<td>4.2</td>
<td>3.7</td>
<td>3.4</td>
</tr>
</tbody>
</table>

*For peak flow rates in shaded areas, contact Noritz for proper setting*

### Pressure Loss

- Set temperature: 120°F or less
- Set temperature: 125°F or higher

### Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>NR981-SV</th>
<th>NR981-OD</th>
<th>NR981-DVC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>54 (pounds)</td>
<td>58 (pounds)</td>
<td></td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>15 - 150 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Supply Pressure</td>
<td>NG: 4.0&quot; - 10.5&quot; LP: 8.0&quot; - 14.0&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Holding Capacity</td>
<td>0.5 Gallon (1.8 L)</td>
<td>0.2 Gallon (1.0 L)</td>
<td></td>
</tr>
<tr>
<td>Connection Sizes</td>
<td>Water Inlet: 3/4&quot;</td>
<td>Hot Water Outlet: 3/4&quot;</td>
<td>Gas Inlet: 3/4&quot;</td>
</tr>
<tr>
<td>Power Supply</td>
<td>120VAC, 60Hz, less than 2 amperes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freeze Protection</td>
<td>Indoor: -30°F</td>
<td>Outdoor: -4°F</td>
<td>Indoor: -30°F</td>
</tr>
<tr>
<td>Temperature Settings</td>
<td>°F Mode: 100-140°F (in 5°F intervals) (9 Options)</td>
<td>°C Mode: 37-84°C (in 5°C intervals)</td>
<td>°C Mode: 37-84°C (in 5°C intervals) (15 Options)</td>
</tr>
<tr>
<td>Default Temperature Options</td>
<td>°F Mode: 120, 135, 140°F (Default is 120°F)</td>
<td>°C Mode: 50, 57, 60°C (Default is 50°C)</td>
<td></td>
</tr>
</tbody>
</table>

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