

# Model NRC661 Series Residential Condensing Tankless Water Heater Specification Sheet

- **Standard Input** - gas consumption ranges from 15,000 BTU/h to 120,000 BTU/h
- **Capacity Range** - flow rates from 0.5 gpm up to 6.6 gpm
- **Compact Design** - ANSI Z21.10.3/CSA 4.3 certified design that can be wall-mounted indoors or outdoors
- **Durable Steel Casing with Polyester Coating**
- **Venting Options** - available as an Outdoor (requires no venting) or indoor Direct Vent (-DV) model which includes special plastic flue adapters that are compatible with both 3" Schedule 40 and 80 PVC/CPVC pipe. The DV model can also be converted to a non-direct vent (SV) model with the use of a Conversion Kit (#SV-CK-3)
- **Direct Electronic Ignition**
- **Energy Factor** - 0.91 (NG) 0.93 (LP)
- **Thermal Efficiency** - fully condensing, 93% efficient for use with natural gas or propane
- **Temperature Controls** - includes built in display that can preset the output temperature to either 120°F, 135°F, or 140°F
- **Power Cord Installation Kit** - 6' power cord is included with -DV models only
- **Safety Devices** - Flame Sensor, Overheat Prevention Device, Lightning Protection Device, Freeze Protection, Condensate Overfill, Fan Rotation Detector
- **Additional Features** - Temperature Lockout, High Elevation Adjustment
- **12-Year\* Limited Heat Exchanger Warranty for Residential Use**
- **5-Year Limited Parts Warranty**
- **Approvals** - CSA, UPC\*\*, NSF, Low NOx Approved by SCAQMD [ $<14\text{ng/J}$  or 20ppm]



OD Model

DV Model

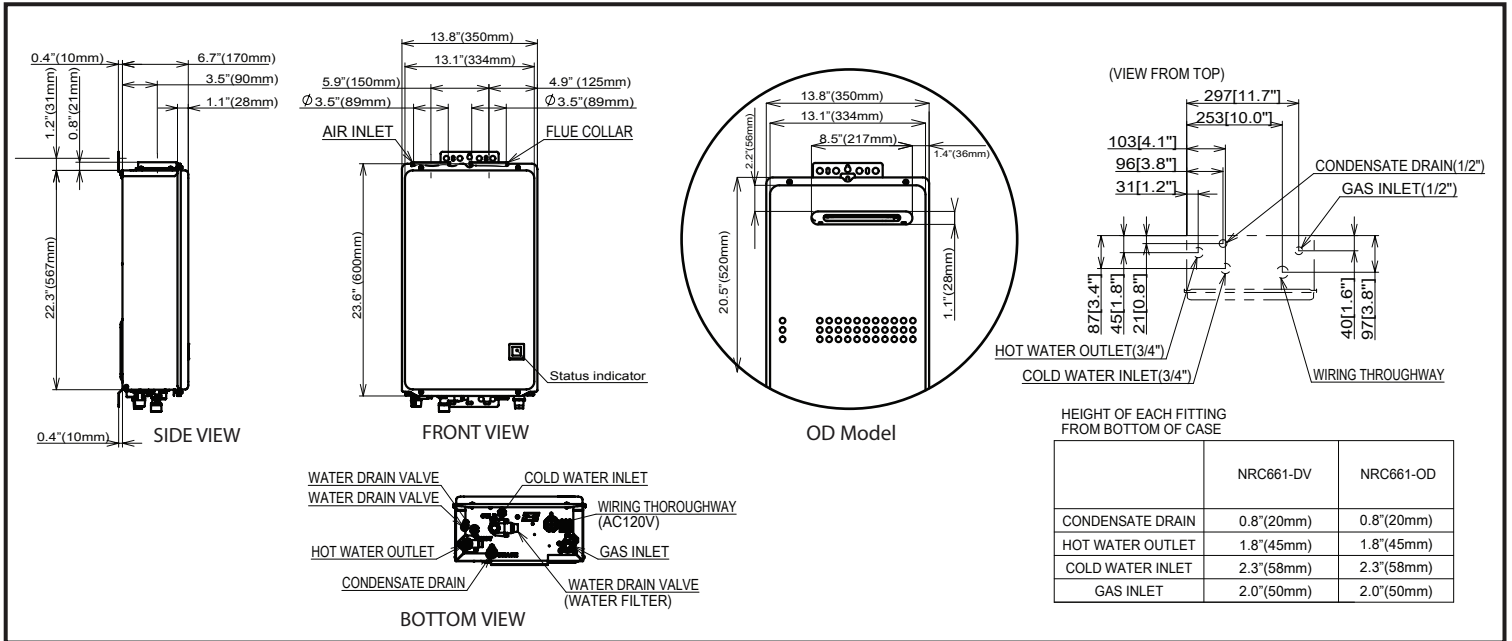
|                          |  |
|--------------------------|--|
| <b>Model</b>             |  |
| NRC661 - ____            |  |
| <input type="checkbox"/> | OD (Outdoor Vent)                      |
| <input type="checkbox"/> | DV (Direct Vent)                       |
| <b>Accessories</b>       |  |
| <input type="checkbox"/> | Horizontal Hood Termination (#PVT-HL)  |
| <input type="checkbox"/> | 3" PVC Termination (#VK3-H-PVC)        |
| <input type="checkbox"/> | Birdscreen for 3" PVC/CPVC (#VT3-PVCS) |
| <input type="checkbox"/> | Condensate Neutralizer (#NC-1)         |
| <input type="checkbox"/> | Isolation Valves (#IK-WV-200-1(-LF))   |
| <input type="checkbox"/> | SV Conversion Kit (#SV-CK-3)           |
| <input type="checkbox"/> | Outdoor Recess Box (#RB-510)           |
| <input type="checkbox"/> | Remote Controller (#RC-7651M)          |
| <input type="checkbox"/> | Remote Controller Cord (#RC-CORD10)    |
| <input type="checkbox"/> | Remote Controller Cord (#RC-CORD26)    |
| <input type="checkbox"/> | Pipe Cover (#PC-15)                    |



\* 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

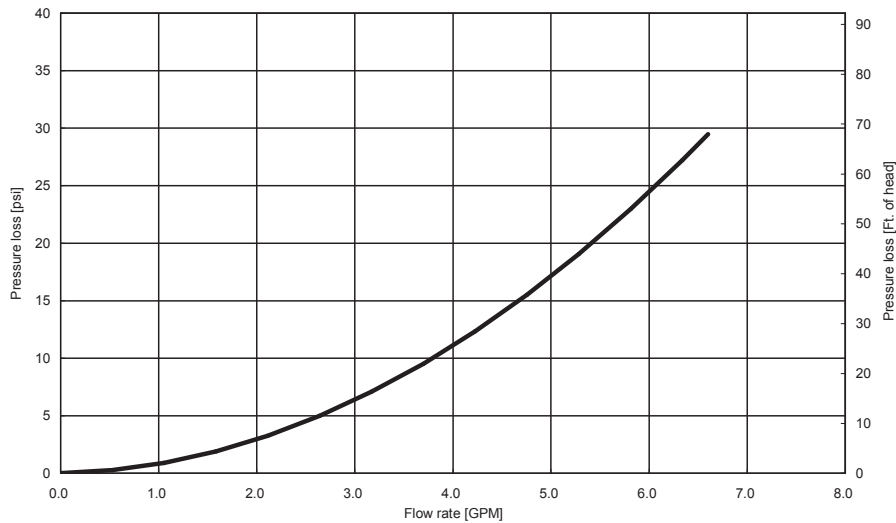
## Dimensions



## Flow Rates

| Temperature Rise (°F) | 30  | 40  | 45  | 50  | 60  | 70  | 80  | 90  | 100 |
|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Flow Rate (GPM)       | 6.6 | 5.8 | 5.3 | 4.6 | 3.8 | 3.3 | 2.9 | 2.6 | 2.3 |

## Pressure Loss Characteristics



## Specifications

|  |                  |  |  |
|--|------------------|--|--|
| Model Name   |                  | NRC661-OD  | NRC661-DV                              |
| Weight   |                  | 36 (pounds)  | 38 (pounds)                            |
| Water Holding Capacity                               |                  | 0.2 Gallon (0.9 L)   |  |
| Connection Sizes                                     | Water Inlet      | 3/4"   |  |
|  | Hot Water Outlet | 3/4"   |  |
|  | Gas Inlet        | 1/2"   |  |
|  | Condensate Drain | 1/2"   |  |
| Power  | Supply           | 120VAC (60Hz), less than 4 amperes                                       |  |
|  | Consumption      | NG: 43W LP: 42W Freeze Prevention 139W                                   | NG: 54W LP: 56W Freeze Prevention 138W |
| Freeze Protection                                    |                  | Outdoor: -4°F  | Indoor: -30°F                          |
| Temperature Settings with Optional Remote Controller | °F Mode          | 100-140°F (In 5°F intervals) (9 Options)                                 |  |
|  | °C Mode          | 37-48°C (In 1°C intervals), 50, 55, 60°C (In 5°C intervals) (15 Options) |  |
| Default Temperature Options                          | °F Mode          | 120, 135, 140°F (Default is 120°F)                                       |  |
|  | °C Mode          | 50, 57, 60°C (Default is 50°C)   |  |