

# Model NRC83 Series Residential Condensing Tankless Water Heater Specification Sheet

- **Standard Input** - gas consumption ranges from 16,000 BTU/h to 157,000 BTU/h
- **Capacity Range** - flow rates from 0.5 gpm up to 8.3 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**
- **Heat Exchanger** - manufactured with commercial grade copper, 25% thicker piping than standard models
- **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" or 4" 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**
- **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** - 0.92 (NG) 0.92 (LP)
- **Thermal Efficiency** - fully condensing, 93% 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 -DV models only
- **Safety Devices** - Flame Sensor, Overheat Prevention Device, Lightning Protection Device, Freeze Protection, Condensate Overflow
- **Additional Features** - Temperature Lockout, High Elevation Adjustment, Condensate Overflow Monitoring System, Service Reminder Function
- **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], Suitable for Installation in a Manufactured (Mobile) Home\*\*\*



OD Model

DV Model

<b>Model</b>	
NRC83 - _____	
<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"/>	Birdscreen for 4" PVC/CPVC (#VT4-PVCS)
<input type="checkbox"/>	Condensate Neutralizer (#NC-1)
<input type="checkbox"/>	Isolation Valves (#IK-WV-200-1)
<input type="checkbox"/>	Pipe Cover (#PC-3S)
<input type="checkbox"/>	Quick Connect Cord (#QC-2)
<input type="checkbox"/>	SV Conversion Kit (#SV-CK-3)

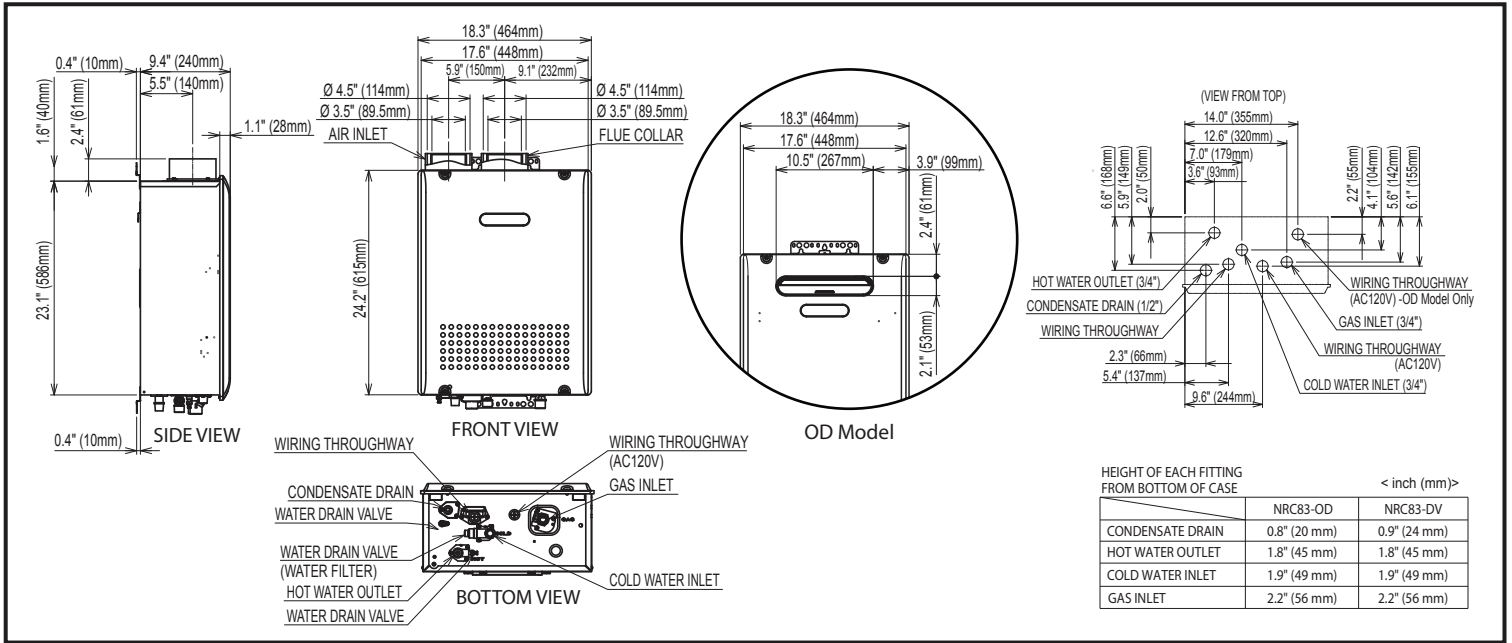


\* Heat Exchanger warranty is maintained at 12 years or 6500 operational hours, whichever occurs first, when used in a single family dwelling in conjunction with a controlled recirculation system (an aquastat being the minimum pump control requirement) in accordance with the Installation Manual. Refer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

\*\*\* Manufactured (Mobile) Home approval is valid for **OD** and **DV** models only

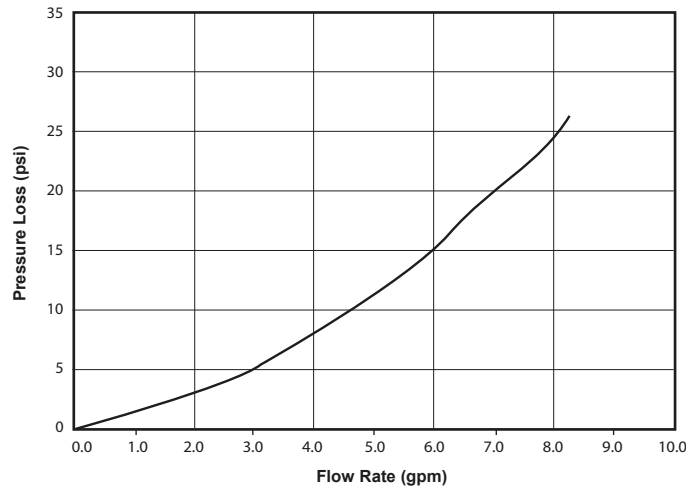
## Dimensions



## Flow Rates

Temperature Rise (°F)	30	40	45	50	60	70	80	90	100
Flow Rate (GPM)	8.3	7.3	6.5	5.8	4.9	4.2	3.7	3.2	2.9

## Pressure Loss



## Specifications

Model Name		NRC83-OD	NRC83-DV
Weight		57 (pounds)	58 (pounds)
Water Holding Capacity		0.5 Gallon (1.8 L)	
Connection Sizes	Water Inlet	3/4"	
	Hot Water Outlet	3/4"	
	Gas Inlet	3/4"	
	Condensate Drain	1/2"	
Power	Supply	120VAC (60Hz), less than 4 amperes	
	Consumption	NG: 51W LP: 54W Freeze Prevention 203W	NG: 58W LP: 64W Freeze Prevention 213W
Freeze Protection		Outdoor: -4°F	Indoor: -30°F
Temperature Settings	°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, 130, 140°F (Default is 120°F)	
	°C Mode	50, 55, 60°C (Default is 50°C)	