



# Model NCC1991 Series Commercial Condensing Water Heater Specification Sheet

Job Name \_\_\_\_\_  
 Location \_\_\_\_\_  
 Architect/Engineer \_\_\_\_\_  
 Wholesaler \_\_\_\_\_  
 Contractor \_\_\_\_\_  
 Model No. \_\_\_\_\_  
 Gas Type \_\_\_\_\_  
 No. of Units \_\_\_\_\_ Total BTU/hr Input \_\_\_\_\_  
 Flow Rate (GPH) \_\_\_\_\_  
 Notes \_\_\_\_\_

- **Standard Input** - gas consumption ranges from 16,000 BTU/h to 199,900 BTU/h
- **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 [ $<14\text{ng/J}$  or 20ppm]  
 This product complies with California AB 1953 Low Lead Law and section 1417(d) of the Safe Drinking Water Act



OD Model

DV Model

**Model**  
 NCC1991 - \_\_\_\_\_  
 OD (Outdoor Vent)  
 DV (Direct Vent)

**Accessories**

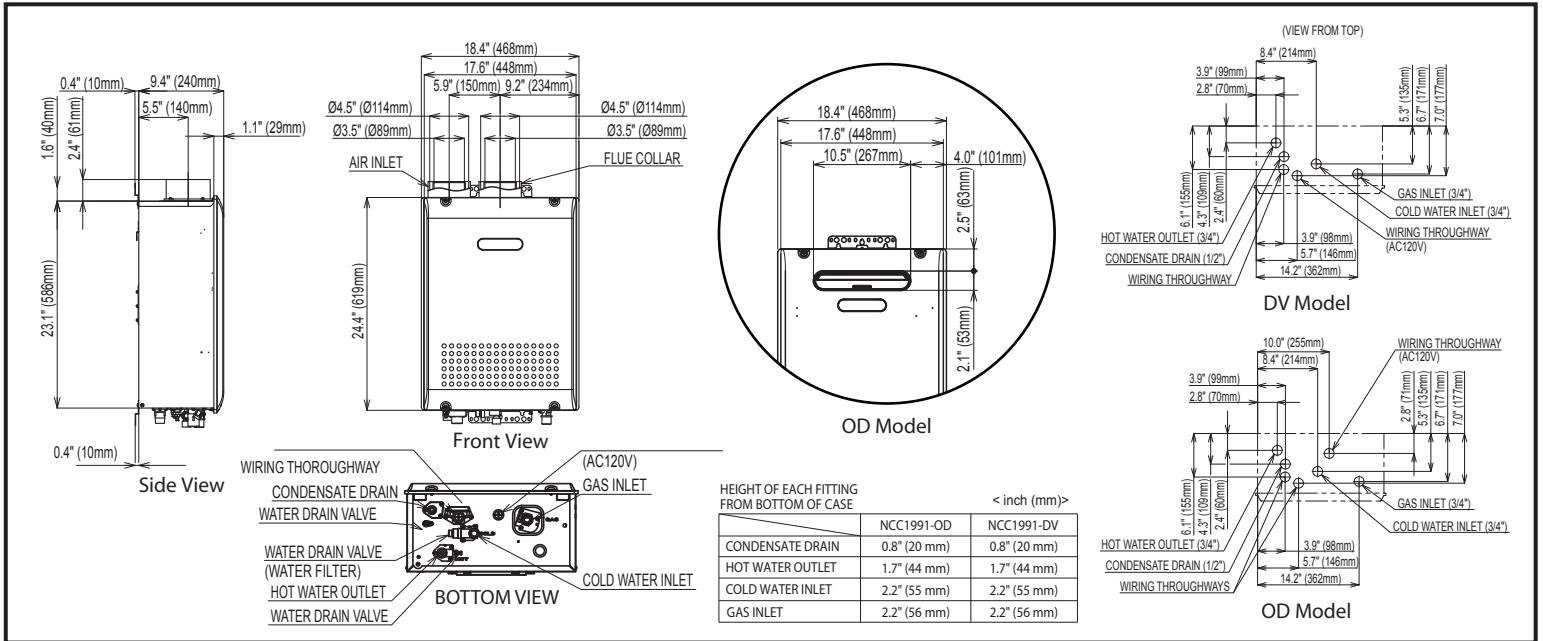
- Horizontal Hood Termination (#PVT-HL)
- 3" PVC Termination (#VK3-H-PVC)
- Birdscreen for 3" PVC/CPVC (#VT3-PVCS)
- Birdscreen for 4" PVC/CPVC (#VT4-PVCS)
- Condensate Neutralizer (#NC-1)
- Isolation Valves (#IK-WV-200-1)
- Pipe Cover (#PC-3S-SUS)
- Quick Connect Cord (#QC-2)
- SV Conversion Kit (#SV-CK-3)

**System Controller**

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



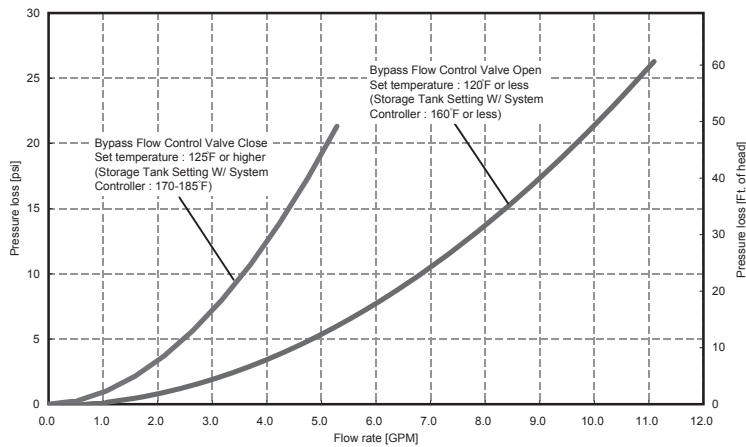
## Dimensions



## Flow Rates

Temperature Rise (°F)	30	40	45	50	60	70	80	90	100	110	120	130	140
Flow Rate (GPM)	11.1	9.3	8.4	7.4	6.2	5.3	4.6	4.1	3.7	3.4	3.1	2.9	2.7

## Pressure Loss



## Specifications

Model Name		NCC1991-OD	NCC1991-DV
Weight		66 (pounds)	68 (pounds)
Operating Pressure		15 - 150 psi	
Gas Supply Pressure		NG: 4.0" - 10.5" LP: 8.0" - 14.0"	
Water Holding Capacity		0.5 Gallon (2 L)	
Connection Sizes	Water Inlet	3/4"	
	Hot Water Outlet	3/4"	
	Gas Inlet	3/4"	
	Condensate Drain	1/2" Threaded	
Power	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)	