

# Commercial-Grade Condensing Water Heater Specification Sheet

- **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 or installed outdoors with an SV model using the optional Vent Cap
- **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
- **Uniform Energy Factor** – 0.91
- **Thermal Efficiency** – 94%(DV)/95%(OD)
- **Temperature Controls** – includes remote thermostat that can precisely adjust the output temperature from 100°F to 180°F
- **Safety Devices** – Flame Sensor, Overheat Prevention Device, Lighting Protection Device, Freeze Protection, Neutralizer Overfill
- **5 Year Limited Heat Exchanger Warranty for Commercial Use**
- **5 Year Limited Parts Warranty & 1 Year Reasonable Labor**
- **Approvals** – CSA, UPC, NSF, Low NOx Approved by SCAQMD (Rule 1146.2). This product complies with California AB1953 Low Lead Law and section 1417(d) of the Safe Drinking Water Act



OD Model



DV Model

## MODEL: NCC199-

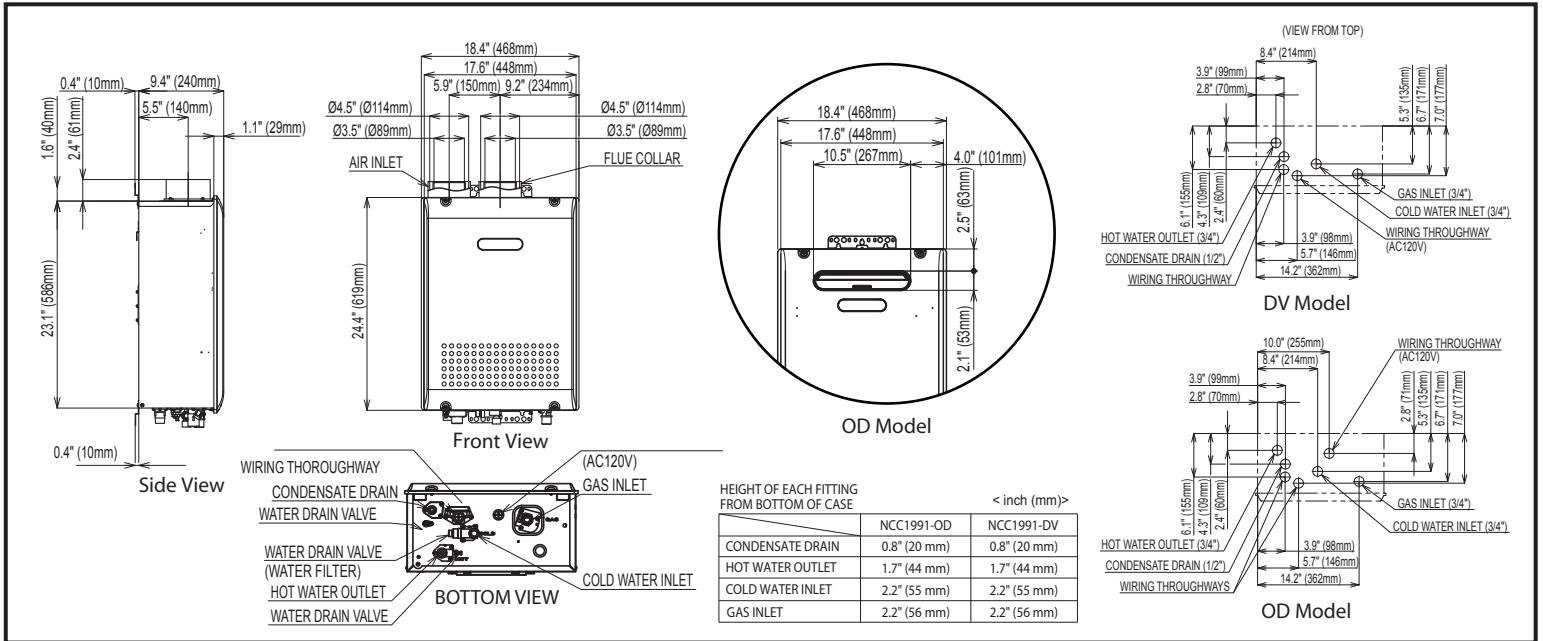
- OD (Outdoor Vent)
- DV (Direct Vent)

## ACCESSORIES

- Horizontal Hood Termination (#PVT-HL)
- 3" PVC Termination (#VK3-H-PVC)
- Bird Screen for 3" PVC/CPVC (#VT3-PVCS)
- Bird Screen 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)



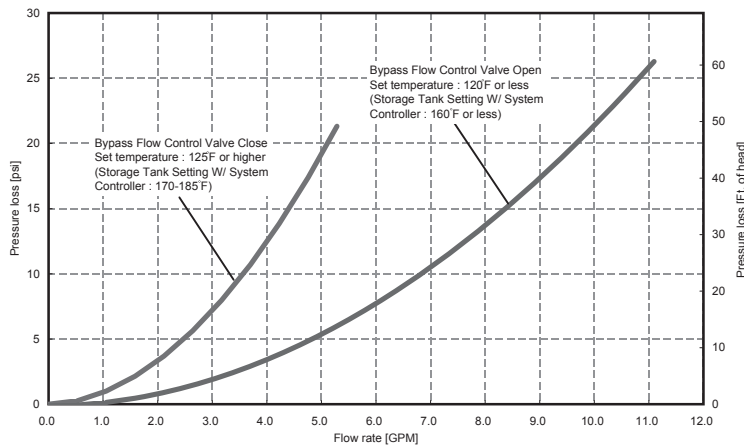
## Dimensions



## 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		NCC199OD	NCC199DV
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, 130 140, 185°F (Default is 120°F)	
	°C Mode	50. 55. 60. 85 °C (Default is 50°C)	