



Model NRCB199DV (GHQ-C3201WX-FF US) and NRCB180DV (GHQ-C2801WX-FF US) Residential Condensing Gas Combination Boiler

- **Standard Input**- Gas consumption ranges:
 - NRCB199 : 18,000 BTUH to 199,900 BTUH
 - NRCB180 : 18,000 BTUH to 180,000 BTUH
- **Heating Mode Input**- Gas consumption ranges:
 - NRCB199 : 18,000 BTUH to 120,000 BTUH
 - NRCB180 : 18,000 BTUH to 100,000 BTUH
- **Turndown Ratio**- 6.7 (NRCB199) and 5.6 (NRCB180)
- **Capacity Range**- Flow rates of 0.4 GPM up to 11.1GPM (NRCB199) and 9.8 GPM (NRCB180)
- **Compact Design**- ANSI Z21.13/CSA 4.9 certified design that can be wall-mounted indoors
- **Durable Steel Casing with Polyester Coating**
- **Heat Exchanger**- Manufactured with 316L stainless steel
- **Venting Options**- For indoor installation only. Convertible to Single Vent (-SV) with the use of conversion kit (#SV-CK-2)
- **Direct Electronic Ignition**
- **AFUE**- 95%
- **Temperature Controls**- Includes remote thermostat that can precisely adjust the output temperature with the capability to display temperatures in °C, Domestic Mode: 90°F to 140°F, Heating Mode: 80°F to 180°F
- **Outdoor Reset Control**- Built-in customizable programming for Energy Savings and Comfort with Outdoor Temperature Sensor (included)
- **Power Cord Installation Kit**- 6' power cord is included
- **Safety Devices**- Flame Rod, High Limit Switch, Lightning Protection Device (ZNR), Freezing Prevention Device, Fan Rotation Detector
- **Internal Pump**- Heating Mode: used for primary closed loop. Domestic Mode: used for pre-heating of internal plate heat exchanger
- **10-Year* Limited Heat Exchanger Warranty for Residential Use**
- **5-Year Limited Parts Warranty**
- **1-Year Reasonable Labor**



DV Model

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Accessories

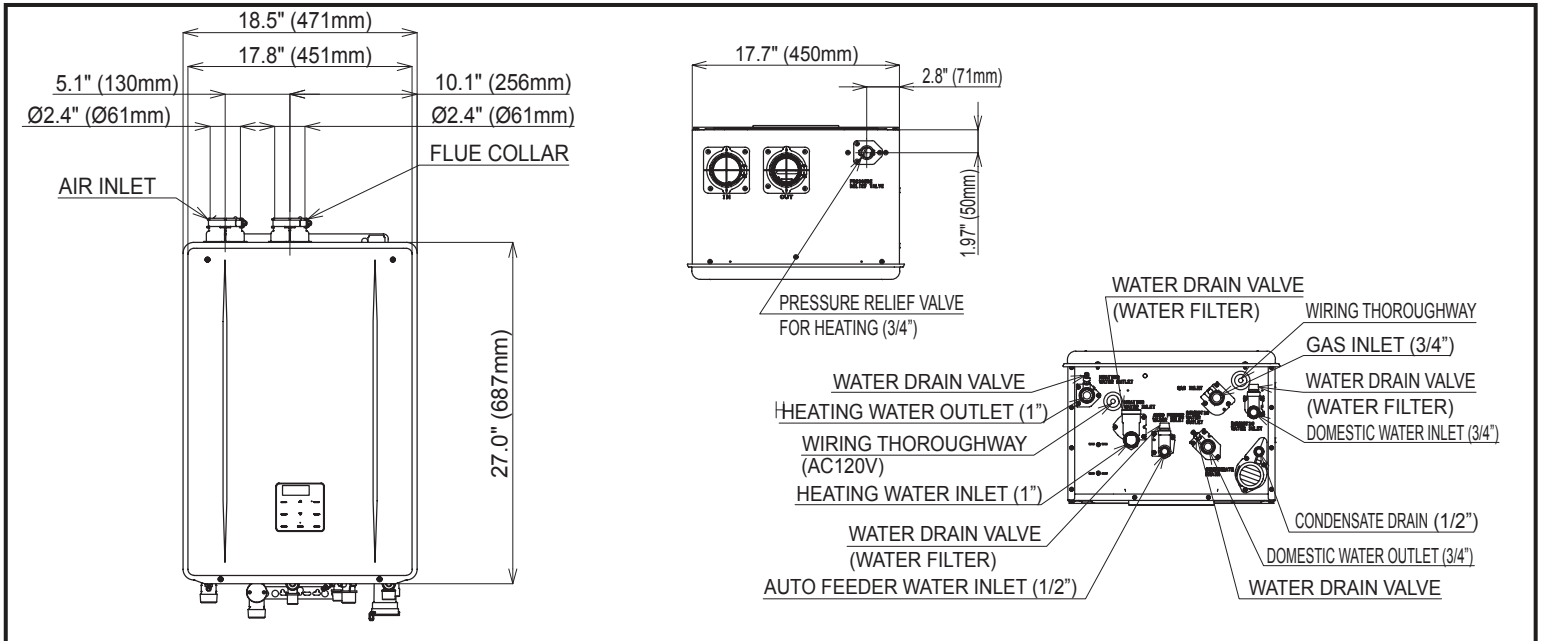
- 2" & 3" PVC Termination (#PVC-2CT) & (#PVC-3CT)
- NRCB Manifold Kit (#MK-NRCB-1)
- Quick Connect Cord (#QC-2)
- Neutralizer (#NC-1) (For 1 Water Heater)
- 3" Horizontal Hood Termination (#PVT-HL)
- Isolation Valves (#IK-WV-200-1)
- 2" & 3" Bird Screen (#VT2-PVCS) & (#VT3-PVCS)
- SV Conversion Kit (#SV-CK-2) 90 Elbow with Inlet Screen
- Plastic Rain Cap (#PRC-1)
- NRCB Service Kit (#SPK-NRCB 1)



*Primary Heat Exchanger warranty is maintained at 10 years when used in a single family dwelling and 3 years when product is supplied with pre-heated or circulated water on the domestic water side, in accordance with the Installation Manual. Refer to Noritz Limited Warranty for complete coverage details.

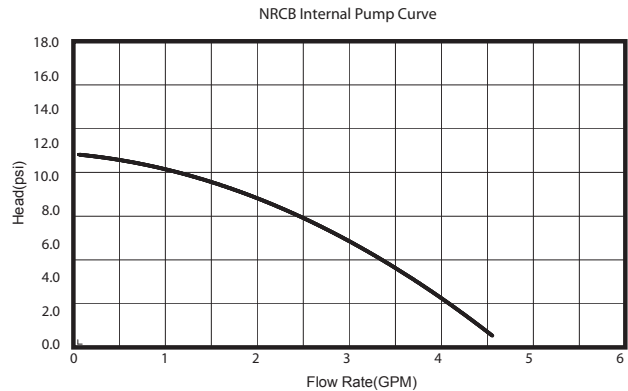
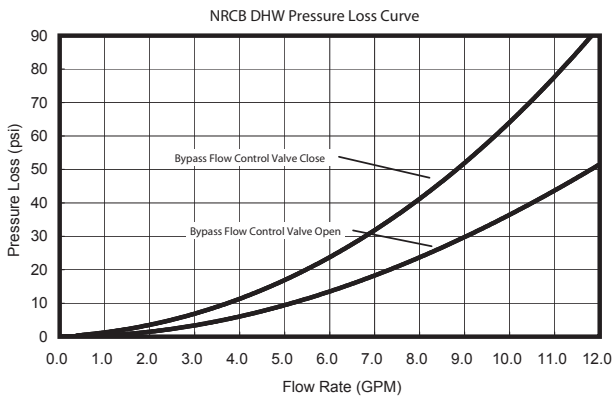
** This product complies with California AB 1953 Low Lead Law and Section 1417(d) of the Safe Drinking Water Act

Dimensions



Flow Rates

Temperature Rise (°F)		30	40	45	50	60	70	80	90	100
Flow Rate (GPM)	NRCB199DV	11.1	9.5	8.4	7.6	6.3	5.4	4.7	4.2	3.8
	NRCB180DV	9.8	8.5	7.5	6.8	5.7	4.9	4.3	3.8	3.4



Specifications

Model Name		NRCB199DV		NRCB180DV	
Weight		95 (pounds)			
Operating Pressure		15 - 150 psi			
Gas Supply Pressure		NG: 3.5" - 10.5" LP: 8.0" - 14.0"			
Water Holding Capacity		Under 2 Gallons			
Connection Sizes	Water Inlet	3/4" NPT			
	Hot Water Outlet	3/4" NPT			
	Gas Inlet	3/4" NPT			
	Condensate Drain	1/2" Threaded NPT			
	Auto Feeder Inlet	1/2" NPT			
	Heating Supply	1"			
Power	Supply	120VAC 60Hz			
	Consumption	NG: 210W LP: 210W Freeze Prevention 125W		NG: 200W LP: 200W Freeze Prevention 125W	
Freeze Protection		39°F (4°C)			
Temperature Settings	Domestic Hot Water	°F Mode	90-140°F (In 5°F intervals) (11 Options)		
		°C Mode	32°C, 35°C, 37°C-48°C (In 1°C intervals), 50°C, 55°C, 60°C (17 Options)		
	Heating	°F Mode	80°-180°F (In 1°F intervals) (81 Options)		
		°C Mode	27-82°C (In 1°C intervals) (43 Options)		

* Default temperature for heating setting is 100°F . Refer to the installation manual in order to set it to 80°F.