



WBRU Heating Boiler

JOB NAME:

LOCATION:

ARCH. / ENGR.:

WHOLESALE:

MECH. CONTRACTOR:

MODEL NUMBER:

BTU/HR INPUT LOW - HIGH FIRE:

TYPE OF GAS:

NOTES:

Heat Exchanger

- All Stainless Steel ASME "H" Stamped Construction
- National Board listed
- Low pressure drop, gasketless, vertical tube combustion heat exchanger design –with internal aluminum fins inserted into the individual fire tube circuits to increase heat transfer capabilities
- Fire tube design provides maintenance-free operation on internal buildup of material inside the combustion chamber
- 30 PSI Relief Valve for All WBRU models

Combustion System

- Modulating burner with up to 10 to 1 turndown (175kBTU models shall have a turndown of 8.79 to 1)
- Up to 95 % AFUE
- High Grade Ceramic Metal Fiber Burner Design
- Spark Ignition
- Models Available for Natural or LP Gas
- Optical Flame monitoring

Integrated Control System

- Digital operating control with LCD display to program and monitor boiler operation
- Three boiler set point temperature inputs– Boiler Pump – System Pump –Boiler Pump –DHW Pump with Domestic Hot Water priority with timing
- Programmable settings: Outdoor Reset Curve – DHW Supply Set Point – Step Sequence for delayed response for smart zones – Boost Function - Cascade up to 20 boilers - Field Program Service reminders with date or runtime activation
- Connection Board – Line voltage terminal strip with 120 VAC / 60 Hertz power / low voltage terminal strip with multiple contacts - Cascade wiring
- 0-10 VDC input Building Management System
- Boiler output regulation (Adjustment of boiler output from 100 to 50 percent )
- Built in Low water cut off
- Fault History logging – Last 10 fault codes
- Customized freeze protection parameters

Additional Features

- Superior condensate collection system with overflow protection switch
- Vents in Plastic PVC - CPVC - Stainless Steel – ULC S636 flexible polypropylene vent liner (chimney lining only)
- Vents up to 100 combined equivalent feet in 3 inch pipe or 50 feet in 2 inch pipe
- 10 Year Limited Residential Warranty
- 5 Year Limited Commercial Warranty
- Manual reset high temperature limit
- Included wall mount bracket
- Corrugated condensation hose with built in vent
- Automatic Air vent install on boiler
- Additional Fittings for T&P installation
- Two included 3 inch vent screens
- Low NOx emissions – SCAQMD Certified

Optional

- System / Pipe Sensor (Part # 7250P-324)
- Indirect Water Heater Sensor (7250P-325)
- 3" Polypro Flex Vent Kit (8400P-001)
- 3" (80mm) PP Concentric Vent Kit (KGAVT0601CVT)
- 3" Stainless Steel Termination Vent Kit (V1000)
- 4" Stainless Steel Termination Vent Kit (V2000)
- Condensate Neutralizer (7450P-212)
- U.L. 353 Compliant Low Water Cut-Off Interface Kit w/ Manual Reset for WBRU Boiler (7855P-315)
- Cascade Communication Cable (7850P-093)

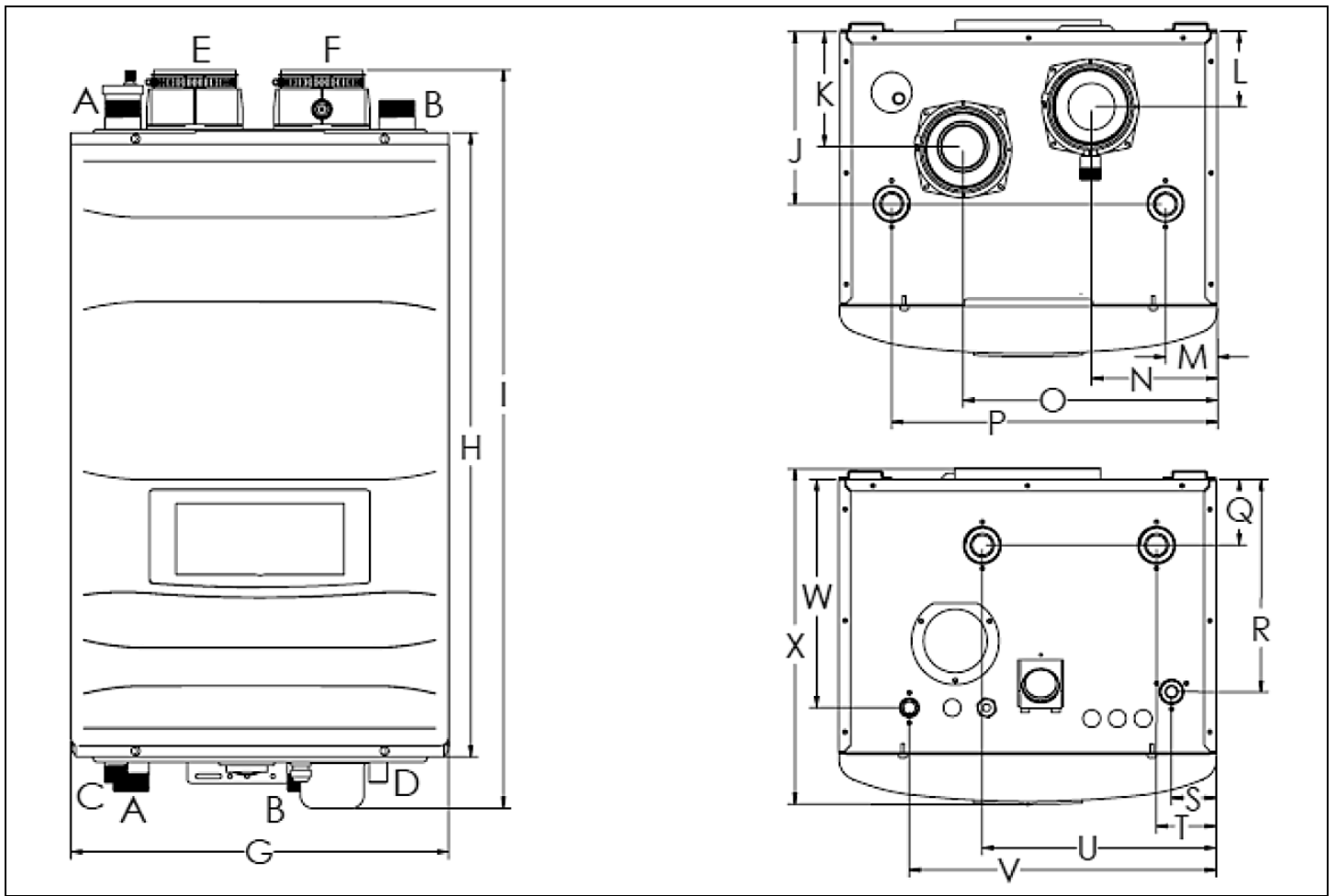


Figure 1 – Specifications and Dimensions

		DESCRIPTION														DIAMETER		
<b>A</b>		CH Supply Adapter														1 ¼"		
<b>B</b>		CH Return Adapter														1 ¼"		
<b>C</b>		Gas Inlet Adapter														¾"		
<b>D</b>		Condensate Adapter														½"		
<b>E</b>		Intake Pipe Connection														3"		
<b>F</b>		Exhaust Vent Connection														3"		
MODEL	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
80W 100W 120W 140W	17.5	28.75	34	7.9	5.3	3.5	2.4	5.8	11.7	14.9	3.0	9.8	2.1	2.7	10.7	14.1	10.5	15.4
175W 199W	19.7	31.9	37	7.2	5.1	3.2	3.75	5.8	12.5	17.5	4.0	11.1	2.1	2.2	11.7	15.8	11.8	16.8

Table 1 – Specifications

MODEL		80W	100W	120W	140W	175W	199W	
<b>Installation</b>		Indoor, Wall Hung, Fully Condensing						
<b>Minimum / Maximum Input (Btu/Hr)</b>		8,000 / 80,000	10,000 / 100,000	12,000 / 120,000	14,000 / 140,000	19,900 / 175,000	19,900 / 199,000	
<b>Flue System</b>		Sealed Combustion Direct Vent / Power Vent						
<b>Vent Run</b>		2" (50 feet), 3" (100 feet), Schedule 40 PVC, CPVC, PP						
<b>Weight (lbs)</b>		90		100		110		
<b>Gas Supply Pressure</b>	<b>NG</b>	3.5" to 14" WC						
	<b>LP</b>	3.5" to 14" WC						
<b>Power Supply</b>	<b>Main Supply</b>	120V 60 Hz / 6a						
	<b>Maximum Power Consumption</b>	160W						
<b>General Operating Conditions</b>		<b>Temperature</b> <ul style="list-style-type: none"> <li>Ambient Temperature Range: 33 – 104°F (0.6 – 40°C)</li> <li>Operating Relative Humidity: Up to 90% at 140°F (40°C)</li> <li>Shipping and Storage Temperature Range: -4 – 176°F (-20 – 80°C)</li> </ul> <b>Input Ratings</b> Power Supply and Communication (CN4): 14V DC						
<b>Ignition System</b>		Direct Electronic Ignition / Automatic Flame Sensing						
<b>Burner System</b>		Premixed Fuel Modulation Ceramic Fiber Infrared						
<b>Gas Valve System</b>		Combination Modulating (Current Proportional)						
<b>Internal Pipe Material</b>		Copper						
<b>Dimensions</b>		W 17.5" – H 34" – D 15.4"				W 19.7" – H 37" – D 16.8"		
<b>Boiler Heat Exchanger Capacity</b>		3 Gallons						
<b>Main Controller / Control Panel</b>		NGTB-900C / P-950EH						
<b>Water Pressure</b>		Min 12 – Max 30 PSI						
<b>Connection Sizes</b>	<b>Space Heating Supply / Return</b>	1 ¼" NPT						
	<b>Gas Inlet</b>	¾" NPT						
<b>Materials</b>	<b>Cabinet</b>	Painted Cold Rolled Carbon Steel						
	<b>Heat Exchanger</b>	Heat Exchanger: Stainless Steel						
<b>Safety Devices</b>		Optical Flame Sensor, Burner Plate High Limit (392°F), Water Temperature High Limit Sensor (200°F), Gas Leak Detection Sensor (Detects Natural Gas or Propane), Freeze Protection (Three Stage Operation - Activates at 46°F – See Freeze Protection in Installer Menu for Details), Exhaust Temperature High Limit Sensor (190°F), Blocked Flue Switch, Condensate Switch, Built-In Low Water Cut-Off Probe						

**Table 2 – Technical Specifications**

**NOTE:** Westinghouse reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.