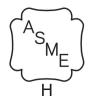
Product Data



Fig. 1 - Model BWB









Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.

The Model BWB Gas-Fired Hot Water Boiler provides fast heat quietly and economically to assure the finest in hydronic heating.

These boilers provide quality design in a small, compact unit easily installed in a basement, garage, or utility room. They can be installed on a combustible floor when an optional combustible floor base is used.

The BWB boilers are CSA certified for use with natural gas and are field convertible for use with propane gas when a factory-authorized conversion kit is used.

FEATURES

Range of Capacities—These boilers are available in sizes 45,000 to 295,000 BTUH.

2012 DOE Compliant—The BWB boiler features a Honeywell 2012 DOE compliant High Limit/Electronic Control. The control monitors the water temperature and delays the burner starting until the residual heat has been transferred. This maximizes efficiency by turning on the burner only when needed.

Completely Packaged—Each boiler is completely assembled, including all controls (except thermostat and expansion tank). All necessary wiring is factory installed, except for the circulator pump. The boiler is ready for gas, water, room thermostat, and electrical connections.

Thermal-Pin, Cast-Iron Sections—These sections speed heat transfer from the flue gases to the boiler water with faster thermostat response, providing greater comfort and economy. Maximum heat is produced at a lower level on the thermal-pin sections, leading to peak efficiency. Steel push nipples are used between each section to provide a water-tight seal.

Integral Draft—These boilers incorporate an integral draft system to simplify installation. A factory-supplied, field-installed draft hood is included.

Titanium Composite Burners—Provide quiet operation, corrosion resistance and improved combustion efficiency. Propane convertible with accessory kit.

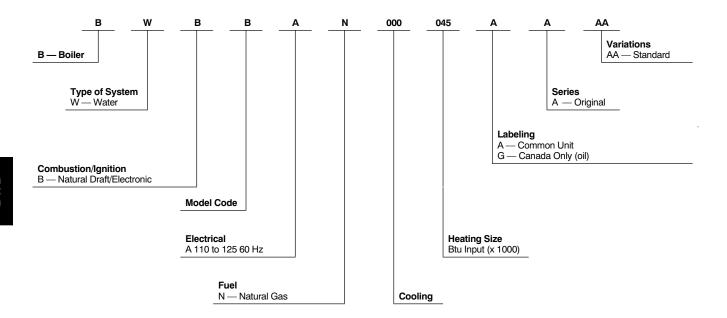
Other Controls—An automatic gas valve and intermittent pilot provide quiet dependable operation of the burners. Factory-supplied safety components assure protection against overheating and pressure build-up. A factory-authorized accessory kit is available for protection against low water operation where required by local code. The circulator is pre-wired with 5-ft. (1.5 M) of BX conduit for easy installation for supply-side pumping.

Insulated Casing—The casing is fully insulated with fiberglass for maximum operating efficiency and economy.

Automatic Vent Damper—The BWB boiler is CSA design cerfified for use with the factory supplied automatic vent damper.

Sections Tested—Each section is hydrostatically tested to 50 psig. Individual sections are pressure tested to 125 psig at factory. Assembled sections are pressure tested to 75 psig at the factory. The maximum allowable pressure is 50 psig for a hot water boiler.

MODEL NUMBER NOMENCLATURE

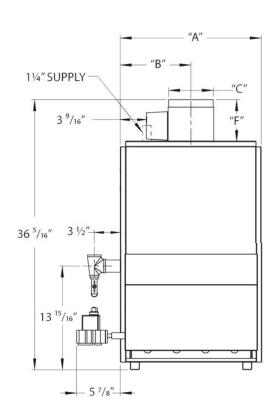


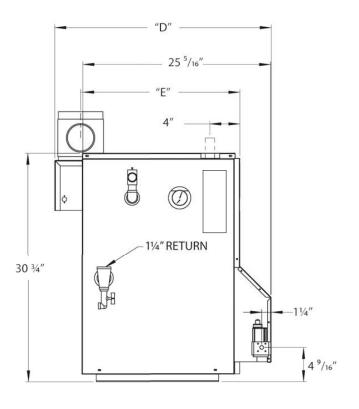
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BOILER ACCESSORIES

DESCRIPTION	PART NUMBER				
Filltrol Package (Up to 75,000 BTUH)	KBAFP0101DNK				
Filltrol Package (Up to 200,000 BTUH)	KBAFP0201DNK				
Filltrol Package (Over 200,000 BTUH)	KBAFP0301DNK				
High Limit Control (L6006C1034)	KBAHL0101DNK				
Combustible Floor Base - 045	KBASB0501DNK				
Combustible Floor Base - 070 & 096	KBAMB0601DNK				
Combustible Floor Base - 120 & 145	KBAMB0701DNK				
Combustible Floor Base -170 & 195	KBAMB0801DNK				
Combustible Floor Base -245	KBAMB0801DNK				
Combustible Floor Base -295	KBAMB0101DNK				
Zoning Valve 3/4-in.	KBAZV0101DNK				
Low Water Cut – off Kit	KBALW0101DNK				
Gas Conversion Kit Propane to Natural 045	KBAPN2101DNK				
Gas Conversion Kit Propane to Natural 070	KBAPN2201DNK				
Gas Conversion Kit Propane to Natural 096	KBAPN2301DNK				
Gas Conversion Kit Propane to Natural 120	KBAPN2401DNK				
Gas Conversion Kit Propane to Natural 145	KBAPN2501DNK				
Gas Conversion Kit Propane to Natural 170	KBAPN2601DNK				
Gas Conversion Kit Propane to Natural 195	KBAPN2701DNK				
Gas Conversion Kit Propane to Natural 245	KBAPN2801DNK				
Gas Conversion Kit Propane to Natural 295	KBAPN2901DNK				
Gas Conversion Kit Natural to Propane 045	KBANP3101DNK				
Gas Conversion Kit Natural to Propane 070	KBANP3201DNK				
Gas Conversion Kit Natural to Propane 096	KBANP3301DNK				
Gas Conversion Kit Natural to Propane 120	KBANP3401DNK				
Gas Conversion Kit Natural to Propane 145	KBANP3501DNK				
Gas Conversion Kit Natural to Propane 170	KBANP3601DNK				
Gas Conversion Kit Natural to Propane 195	KBANP3701DNK				
Gas Conversion Kit Natural to Propane 245	KBANP3801DNK				
Gas Conversion Kit Natural to Propane 295	KBANP3901DNK				

DIMENSIONS





Dimensions								
Model No.	Natural Gas		Dir	Pump Size Supply &				
Model No.	Inlet*	Α	В	С	D	E	F	Return Tappings
*045	1/2"	111/4	5 %	4	271/8	20 ⁷ / ₁₆	$4^{15}/_{16}$	11/4"
*070	1/2"	15 1/8	7	5	281/8	2015/16	$4^{15}/_{16}$	11/4"
*096	1/2"	15 1/8	7	5	281/8	2015/16	415/16	11/4"
*120	1/2"	19	91/2	6	29 1/8	217/16	5 ⁷ / ₁₆	11/4"
*145	1/2"	19	91/2	6	29 1/8	217/16	5 ⁷ / ₁₆	11/4"
*170	1/2"	22 %	113/16	7	301/8			
*195	1/2"	22 %	113/16	7	301/8	2115/16	5 ¹⁵ / ₁₆	11/4"
*245	3/4″	26¾	13 ⁶ / ₁₆	8	311/8	227/16	6 ¹⁵ / ₁₆	11/4"
*295	3/4"	30 %	15 ⁵ / ₁₆		321/8			

^{*} Propane Gas Inlet (All Units) 1/2"

A12444

CLEARANCES - IN. (MM)

PART OF BOILER	CLEARANCE
Right Side	3 (76 mm)*
Left Side (Control Side)	9 (229 mm)
Тор	18 (457 mm)
Back	8 (203 mm)
Front	18 (457 mm)*

^{*}Service clearance requirement 24 in. (610 mm); Front alcove clearance 18 in. (457 mm).

RATINGS AND CAPACITIES*

MODEL	GAS TYPE	NUMBER OF SECTIONS	MAX INPUT (BTUH	HEATING CAPACITY (BTUH)	NET RATINGS (BTUH)	AFUE (WITH DAMPER)	APPROXIMATE SHIP WEIGHT
BWBBAN000045	Natural	2	45,000	37,000	32,000	82.0	255
BWBBAN000070	Natural	3	70,000	57,000	50,000	82.0	305
BWBBAN000096	Natural	3	96,000	79,000	69,000	82.0	310
BWBBAN000120	Natural	4	120,000	98,000	85,000	82.0	355
BWBBAN000145	Natural	4	145,000	119,000	103,000	82.0	360
BWBBAN000170	Natural	5	170,000	140,000	122,000	82.0	420
BWBBAN000195	Natural	5	195,000	160,000	139,000	82.0	425
BWBBAN000245	Natural	6	245,000	201,000	174,000	82.0	495
BWBBAN000295	Natural	7	295,000	242,000	210,000	82.0	555

^{*}Gas input ratings are for elevations up to 2000 ft. (610 M).

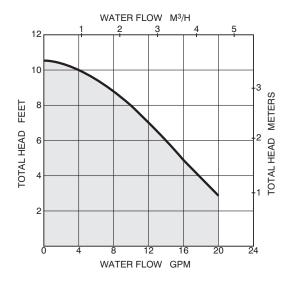
SPECIFICATIONS

UNIT SIZE	045	070	096	120	145	170	195	245	295
General Data									
Sections -Fine Grain Cast Iron	2	3	3	4	4	5	5	6	7
Burners – Stainless/Titanium Alloy	1	2	2	3	3	4	4	5	6
Burners - Orifice Drill Size	3.1 mm	2.8 mm	3.2 mm	2.9 mm	3.2 mm	2.9 mm	3.2 mm	3.2 mm	3.2 mm
Gas Controls - Intermittent Pilot		•		•	•		•		•
Gas Valve		Honeywell							
Inlet Size	1/2-in.	1/2-in.	1/2-in.	1/2-in.	1/2-in.	1/2-in.	1/2-in.	3/4-in.	3/4-in.
Pilot Assembly		Honeywell							
Controls									
Limit Control Range		130° F to 220° F							
Pressure/Temperature Gauge		0 to 75 PSIG / 70° F to 320° F							
Pressure Relief Valve Setting	30 lbs.	30 lbs.	30 lbs.	30 lbs.	30 lbs.	30 lbs.	30 lbs.	30 lbs.	30 lbs.
Spark Generator		•	lata	watad Liab	Limit and C	la atrania Ca		•	•
Circulator Relay - Aquastat	Integrated High Limit and Electronic Control								
Vent Damper*	4	5	5	6	6	7	7	8	9
Circulator		•	•	•	•	•	•	•	•
Taco		007							
Full Load Amps		0.70							
Flange Size FPT	1 1/4-in.								

ELECTRICAL DATA

ALL MODELS						
Voltage—Hertz—Phase	115 — 60 — 1					
Minimum Branch Circuit Wire Size (AWG)	14					
Maximum Fuse Size (Amps)	15					
Control Circuit Power Available	40va-@ 24v					

CIRCULATOR CURVE



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