

## **BC** Series II

## There Are Some Things You Can Always Depend On...



## **BC Series** II

Up to 85% AFUE Oil Fired Hot Water Boiler

- Available in 3 sizes from 133 MBH to 161 MBH.
- Dependable Cast Iron Exchanger with Cast Iron Push Nipples.
   The Sections and Push Nipples expand at the same rate when heated. By using similar materials instead of less expensive gaskets the boiler maintains a water tight seal over time.
- Honeywell High Limit/Electronic Ignition Control.
  - Digital temperature display and diagnostics.
  - Less Coil: Control monitors water temperature and delays the burner starting until any residual heat has been transferred. Thermal purge logic measures rate of temperature change inside the boiler and delays burner firing accordingly. This maximizes efficiency by turning on the burner only when needed.
  - With Coil: Low Limit Control satisfies Domestic Hot Water call. When low limit calls the control seeks maximum temperature to satisfy domestic hot water call bypassing thermal purge logic.
- Atmospheric Chimney Vent Boiler.
- Optional Tankless Heater Coil.
- Textured paint Jacket.
- Limited Lifetime Warranty (Residential Applications).
- Built by American Craftsmen since 1928



Dimensional Diagram	Model <sup>(1)</sup>	AHRI Oil Burner Input (1)		Heating Capacity	Net AHRI Ratings (2) (4)		Min. Natural Draft Chimney Size			AFUE %	
		G.P.H.	Mbh <sup>(4)</sup>	Mbh (4)	Water	Mbh	Round	Sc	<sub>l</sub> uare		
	BC3095	0.95	133	114	99		6"	8"x	8"x15'	84.0%	
	BC4100	1.00	140	121	105		6"	8"x	8"x15'	85.0%	
	BC4115	1.15	161	137 119		)	6"	8"x	8"x15'	84.0%	
	(1) AHRI burner capacity is based on an oil heating value of 140,000 Btu/gal and with 13% CO <sub>2</sub> .										
	(2) Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15.										
BC Series II	(3) Consult manufacturer before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping.										
Front View	(4) For forced hot water heating systems where boiler and all piping are within the area to be heated, select boiler on basis of its Heating Capacity.										
11.7/32"	General Information (See Installation, Operation and Maintenance Manual for complete instructions)										
	Clearances Required distances measured from boiler.	Combustible Materials (Required)									
		Тор					24" (610 mm)				
		Left Side (Control Side)					6" (152 mm)				
		Right Side					24" (610 mm)				
		Front					24" (610 mm)				
		Back					6" (152 mm)				
		Flue Connector 9" (229 mm)									
	Connections (All Models)	, , , , , , , , , , , , , , , , , , , ,									
	Electrical 120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)										
BC Series II Side View	Tankless Heater Capacities	Model	Input Rate G.P.H.	Tankless Num	Heater Capa		ankless Heater acity Intermittent Draw G.P.M.			Boiler Water Content (Gallons)	
		BC3095	0.95				3.25		6.7		
		BC4100	1.00	L-2	24		3.25		8.2		
		BC4115	1.15				4.00			3.2	
	Dimensions/ Weights	Model	A (Length of Flush Jacke	to (	B ont of Jacket Center Line Flue Outlet)		C (Flue Outle Diameter	,   c	D (Tankless oil to Back of Jacket)	Weight	
		BC3095	19"		9-3/4"		6"		8-7/8"	345 lbs.	
		BC4100	23"		11-3/4"		6"		12-3/4"	404 lbs.	
		BC4115	23"		11-3/4"		6"		12-3/4"	404 lbs.	
	Standard Equipment	Boiler Controls: High Limit, Circulator Control and Primary Control. Heat Exchanger: Cast Iron Heat Exchanger with Cast Iron Push Nipples. Combustion: Beckett Oil Burner, Combustion Chamber with Target Wall/Liner. Electrical: Wiring Harness, Burner Electrical Disconnect. Safety: 30 PSI A.S.M.E. Safety Relief Valve. Other: Crated Cast Iron Boiler with Insulated Flush Jacket; Circulator - 1-1/4", Temperature Pressure Gauge, Boiler Drain Valve, 1-1/4" Supply and Return Tapping. For Tankless Heater Units: Tankless Hot Water Coil and Low Limit.									
	Options	Taco, Grundfos or Less Pump; Tankless Coil.									
	Certifications	Repressure 30 psi.									



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All specifications subject to change without notice. ©2018 ECR International, Inc. PN 240009784 REV. [01/2018]