



# Olsen

## OBC Series II

*KEEPING FAMILIES WARM FOR MORE THAN 60 YEARS.*

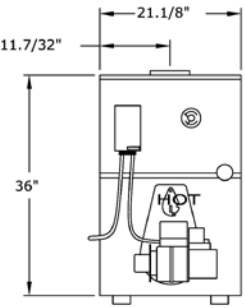



## OBC Series II

Up to 85% AFUE Oil Fired Hot Water Boiler

- Available in 3 sizes from 133 MBH to 161 MBH.
- Dependable Cast Iron Heat 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 2012 Compliant High Limit and circulator relay 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).
- Made in North America.



# Olsen OBC Series II Residential Oil Fired Water Boiler

Dimensional Diagram	Model <sup>(1)</sup>	AHRI Oil Burner Input <sup>(1)</sup>		Heating Capacity MBH <sup>(4)</sup>	Net AHRI Ratings <sup>(2) (4)</sup>		Min. Natural Draft Chimney Size		AFUE %	
		G.P.H.	MBH <sup>(4)</sup>		Water MBH	Round	Square			
<p><b>OBC Series II Front View</b></p> 	OBC3095	0.95	133	114	99	6"	8"x8"x15'		84.0%	
	OBC4100	1.00	140	121	105	6"	8"x8"x15'		85.0%	
	OBC4115	1.15	161	137	119	6"	8"x8"x15'		84.0%	
	<p>(1) AHRI burner capacity is based on an oil heating value of 140,000 Btu/gal and with 13% CO<sub>2</sub>.</p> <p>(2) Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15.</p> <p>(3) Consult manufacturer before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping.</p> <p>(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.</p>									
<p><b>General Information</b> (See Installation, Operation and Maintenance Manual for complete instructions)</p>										
<p><b>Clearances Required</b> distances measured from boiler.</p>	Top				<p><b>Combustible Materials (Required)</b></p> <p>24" (610 mm)</p>					
	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)					
<p><b>Connections (All Models)</b></p>		Return/Supply Tappings 1-1/4" NPT, Oil Line 3/8" O.D. copper tubing for runs of 50 feet or less, and 1/2" O.D. for longer runs.								
<p><b>Electrical</b></p>		120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)								
<p><b>Tankless Heater Capacities</b></p>	Model	Input Rate G.P.H.	Tankless Heater Number		Tankless Heater Capacity Intermittent Draw G.P.M.		Boiler Water Content (Gallons)			
	OBC3095	0.95	L-24		3.25		6.7			
	OBC4100	1.00			3.25		8.2			
	OBC4115	1.15			4.00		8.2			
<p><b>Dimensions/Weights</b></p>	Model	A (Length of Flush Jacket)		B (Front of Jacket to Center Line of Flue Outlet)		C (Flue Outlet Diameter)		D (Tankless Coil to Back of Jacket)		Weight
	OBC3095	19"		9-3/4"		6"		8-7/8"		345 lbs.
	OBC4100	23"		11-3/4"		6"		12-3/4"		404 lbs.
	OBC4115	23"		11-3/4"		6"		12-3/4"		404 lbs.
<p><b>Standard Equipment</b></p>		<p>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; Grundfos 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.</p>								
<p><b>Options</b></p>		Less Pump; Tankless Coil								
<p><b>Certifications</b></p>		   <p>Maximum Allowable Working Pressure 30 psi.</p>								

All ratings and specifications subject to change.

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