

Innovative. Efficient. Dependable. Dunkirk.

ESC V

82% AFUE Oil Fired Steam Boiler

- Available in 4 sizes from 106 MBH to 247 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.
- Patented Protective Heat Shield Baffle to protect the casting above the water line.
- Honeywell Pressure Control, Boiler Water Level Gauge Glass, and Steam Pressure Gauge.
- · Electronic Low Water Cut Off.
- Atmospheric Chimney Vent Boiler.
- Textured paint Jacket with compact footprint.
- Cast Iron swing door and large flueways allow for easy cleaning and servicing.
- 12 Year Limited Warranty (Residential Applications).
- · Manufactured with pride in the USA





Dimensional	Model		AHRI Oil Burner Input ⁽¹⁾		Htg. Cap.	Net AHRI Ratings ⁽³⁾		Min. Nat. Draft Chimney Size		Pump Press.	Nozz.	AFUE %		
Diagram			G.P.	.н.	MBH ⁽²⁾	MBH ⁽⁴⁾	Steam MBH	Sq. Ft. Steam	Round	Square		Furn.	(4)	
Front View 21.7/8" 9.1/32" Pressure Control Guard A.S.M.E. Pressure Relief Valve A.S.J.4" 35.3/4" 35.3/4"	1	ESC-3090S	0.9	0	126	106	80	333	6"	8"x8"x15'	150	0.75-60°B	82.0%	
	out	ESC-4125S	1.2	<u></u> !5	175	147	110	458	6"	8"x8"x15'	140	1.10-60°B	82.0%	
	Without Tankless	ESC-5185S	1.8	5	259	216	162	675	8"	8"x8"x15'	150	1.50-70°B	82.0%	
		ESC-6210S	2.1	0	294	247	185	771	8"	8"x8"x15'	145	1.75-70°B	82.0%	
	With Tankless	ESC-3090ST	0.9	0	126	106	80	333	6"	8"x8"x15'	150	0.75-60°B	82.0%	
		ESC-4125ST	1.2		175	147	110	458	6"	8"x8"x15'	140	1.10-60°B	82.0%	
		ESC-5185ST	1.8	5	259	216	162	675	8"	8"x8"x15'	150	1.50-70°B	82.0%	
		ESC-6210ST	2.1	0	294	247	185	771	8"	8"x8"x15'	145	1.75-70°B	82.0%	
	(1) Bu	rner input is based o	on an oil heating value of 140,000 Btu/gal.											
	<u> </u>	3H = 1000 Btu per h												
		(3) Net AHRI Steam Ratings based on piping and pick-up allowance of 1.333. Consult manufacturer before selecting boiler for installations having unusual piping and pick-up requirements, such as intermittent system operation, extensive piping, etc.												
	(4) Heating Capacity and AFUE based on 13.0% CO ₂ with -0.02" W.C. draft over fire and #1 smoke or less. Tested in accordance with U.S. Department of Energy test procedures.													
	General Information (See Installation, Operation and Maintenance Manual for complete instructions)													
			Combustible Materials (Required)											
	Clearances Required distances measured from boiler.		Тор						24" (610 mm)					
			Left Side (Control Side)						6" (152 mm)					
			Right Side						24" (610 mm)					
			Front						24" (610 mm)					
			Back						24" (610 mm)					
			Flue Connector 9" (229 mm)											
	Connections (All Models)		Supply Tapping Two 2" NPT, Return Tapping 1-1/2", Oil Line 3/8" O.D. copper tubing for runs of 50 feet or less, and ½" O.D. for longer runs.											
	<u> </u>	trical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended).											
	Tankless Heater Capacities		Model Rate G.P.H.		Pridoc, Ecoo triari		Tankless Heater		Boiler Water					
					Rate	Tank Heater N		Capacity Inter Draw G.P.		ttent	To Wate	r To L	WCO Line	
			ESC-3090ST		0.90			Ava	Avail. On Req.		11		8	
			ESC-4125ST		1.25	L-2	₂₄ [4.5		13		9	
			ESC-5185ST		1.85		·		4.5		15		10	
			ESC-62	210ST		2.10		В	4.5		15		10	
	Dimensions/ Weights		No. of Sec.		A (Length Flush Ja		't	(Front of Ja to Center L of Flue Ou		(Flue Ou	C (Flue Outlet Diamet		Weight	
			3		16.37			6.5"			6"		534 lbs.	
			4	20.25"			8.5"			6"			688 lbs.	
			5 6	23.875 27.5"			10.25			7" 8"			781 lbs.	
		Boiler Controls: Honeywell Pressuretrol, Boiler Water Level Gauge Glass, and Steam Pressur Heat Exchanger: Cast Iron Heat Exchanger with Cast Iron Push Nipples, Swing Door. Combustion: Beckett Oil Burner, Target Wall/Liner. Electrical: Wiring Harness, Burner Electric Disconnect. Safety: Electronic Low Water Cut Off. Other: Crated Boiler, Flush Jacket, ASME Relief Valve, Drain Valve, Plastic Cover, Two 2" Sul 1-1/2" Return Tapping and Skim Port. For Tankless Heater Units: Add Tankless Hot Water Coil and 4006 Limit Control.								Pressure G	Ü			
	Opti	ons	Tankless Coil.											
		Certifications Tested for 15 psi ASME Working Pressure ASME Www.ahridirectory.org												

