Dunkirk ESC Series IV

Innovative. Efficient. Dependable. Dunkirk.

ESC IV

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).





Dunkirk ESC Series IV Residential Oil Fired Steam Boiler

Dimensional	Model		AHRI OII FIII 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	ound Square		Furn.	(4)	
Front View 21.7/8" 9.1/32" Pressure Control Guard Oil Burner	<u>"</u>	ESC-3090S	0.9	0	126	106	80	333	6"	8"x8"x15'	150	0.75-60°B	82.0%	
	Without Tankless	ESC-4125S	1.2	25	175	147	110	458	6"	8"x8"x15'	140	1.10-60°B	82.0%	
		ESC-5185S	1.8	35	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	 25	175	147	110	458	6"	8"x8"x15'	140	1.10-60°B	82.0%	
		ESC-5185ST	1.8	 85	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	 	
	(1) Bu	rner input is based	on an oil he	ating val	ue of 140,000	Btu/gal.						1	1	
	(2) ME	(2) MBH = 1000 Btu per hour [Btu = British Thermal Unit].												
	(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.													
	Ger	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 Sic	de (Cor	ntrol Side)				6" (152 mm)					
			Right Side						24" (610 mm)					
			Front 24" (610 mm)											
			Back 24" (610 mm)											
			Flue Connector						9" (229 mm)					
Side View A.S.M.E. Pressure Relief Valve "A" 35.3/4" 36.3/4" 37.3/4" 38.3/4"	1	nections 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.											
	Elec	trical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended).											
	Tankless Heater Capacities		Model		Input Rate G.P.H.	Tankle		Tankless Heater			Boiler Water Content (Gallons)			
						Heater N	lumber		Draw G.P.M.		To Wate Line	To L	WCO Line	
			ESC-3090ST		0.90	ļ	Ļ	Ava	ail. On Req.		11		8	
			ESC-4125ST		1.25	L-2	4		4.5		13 15		9	
			ESC-5185ST		1.85		-			4.5			10	
	\vdash		ESU-62	SC-6210ST 2		2.10			4.5 B		15		10	
			No. of Sec.		A (Length Flush Ja		`t	Front of Ja to Center I of Flue Ou	Line	(Flue Outlet D		eter)	Weight	
	Dimensions/ Weights		3	16.375		5"		6.5"		6"			534 lbs.	
			4	20.25		5"			8.5"		6"		688 lbs.	
			5		23.87		10.2			7"		+-	781 lbs.	
			6 27.5"				8.3125			8"			901 lbs.	
		Boiler Controls: Honeywell Pressuretrol, Boiler Water Level Gauge Glass, and Steam Pressure G 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" Supply 1-1/2" Return Tapping and Skim Port. For Tankless Heater Units: Add Tankless Hot Water Coil and 4006 Limit Control.								Č				
	Opti	ons	Taco or Grundfos; Tankless Coil.											
	Cert	Certifications Tested for 15 psi ASME Working Pressure AGRICATIFIED® www.ahridirectory.org												

All ratings and specifications subject to change.

PN 240009896 Rev. 3/14









