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 FII 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 Squar			Furn.	AI 02 /0	
Front View 21.7/8 9.1/32 Pressure Control Guard		ESC-3090S	0.9	90	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%	
	E E	ESC-5185S	1.8	 35	259	216	162	675	8"	8"x8"x15'	150	1.50-70°B	82.0%	
	>12	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		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		259	216	162	675	8"	8"x8"x15'	150	1.50-70°B	82.0%	
		ESC-6210ST	2.1		294	247	185	771	8"	8"x8"x15'	145	1.75-70°B	82.0%	
	(1) Bu	rner input is based					100			10 10 110	140	[1.73-70 B	02.070	
	_	(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) Electrical service is 120 Volts, 15 Amps, 60 Hz.													
Oil	_	General Information (See Installation, Operation and Maintenance Manual for complete instructions)												
Side View A.S.M.E. Pressure Relief Valve 35.3/4" 36.3/4" 37.3/4" 38.3/4" 39.3/4"			Combustible Materials (Required)											
			Тор						24" (610 mm)					
	Clearances Required distances measured from boiler.		Left Side (Control Side)					+	6" (152 mm)					
			· ' '					+	24" (610 mm)					
			Right Side					-	24" (610 mm)					
			Front					_	,					
			Back						24" (610 mm)					
			Flue Connector 9" (229 mm)											
	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 R		Input	· I Iankia			Tankless Heater		Boiler Water Content (Gallons)			
					Rate G.P.H.	Heater N			Capacity Intermit Draw G.P.M.		To Wate	To L	WCO Line	
			ESC-3090ST		0.90		L	Ava	il. On Rec	1.	11		8	
			ESC-4125ST		1.25 1.85	L-2	24		4.5		13		9	
				ESC-5185ST ESC-6210ST					4.5		15		10	
			No. of	210ST	2.10 A (Length	n of		B ront of Ja	4.5 acket	15 C			10 Weight	
		Dimensions/ Weights		Flush Ja					Center Line Flue Outlet)		(Flue Outlet Diam		o.g	
					16.375"		6.5"			6"			534 lbs.	
	weig			20.25		5"				6"			688 lbs.	
			5	23.875			10.25'			7"			781 lbs.	
			6	<u></u>	27.5		8.312			8"			901 lbs.	
	1	Boiler Controls: Honeywell Pressuretrol, Boiler Water Level Gauge Glass, and Heat Exchanger: Cast Iron Heat Exchanger with Cast Iron Push Nipples, Swin 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 Co 1-1/2" Return Tapping and Skim Port. For Tankless Heater Units: Add Tankless Hot Water Coil and 4006 Limit Control							ving Door. Cover, Tw		Ü			
	Opti	ons	Taco or Grundfos; Tankless Coil.											
	Cert	ifications	Tested for 15 psi ASME Working Pressure ASME www.ahridirectory.org											

All ratings and specifications subject to change.

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