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⁾	(4)		Sq. Ft. Steam	Round Square		PSI F	Furn.	(4)	
Front View 21.7/8" 9.1/32" Pressure Control Oil Burner		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	:5	175	147	110	458	6"	8"x8"x15'	140	1.10-60°B	82.0%	
	Nith ank	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	:5	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%	
	_		on an oil heating value of 140,000 Btu/gal.											
	<u> </u>	(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.													
		General Information (See Installation, Operation and Maintenance Manual for complete instructions)												
	0.01	Combustible Materials (Required)										Required)		
	Clearances Required distances measured from boiler.		Тор						24" (610 mm)					
			Left Side (Control Side)					1	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 "B" "A" "B" "B" "B" "B" "B" "B" "B" "B	Con	nections											f FO foot or	
	1	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	Tank			Tankless Heate Capacity Intermit Draw G.P.M.			Boiler Water Content (Gallons)		
					G.P.H.	Heater N	lumber				To Wate Line	To L	WCO Line	
			ESC-3090ST		0.90			Ava	Avail. On Req.		11		8	
			ESC-4125ST		1.25	L-2	4	1	4.5		13		9	
			ESC-5185ST ESC-6210ST		1.85		}		4.5		15		10	
			ESC-62	21051	2.10			В	4.5	<u> </u>	15		10	
	Dimensions/ Weights		No. of Sec.	A (Length Flush Jac			_ `t	Front of Ja to Center I of Flue Ou	Line (Flue Ou		C utlet Diameter)		Weight	
			3	16.375		5"		6.5"		6"			534 lbs.	
			4	20.25					8.5"		6"		688 lbs.	
			5		23.87			10.25"		7"			781 lbs.	
			6 27.5"					8.3125	evel Gauge Glass, and Ste		8"		901 lbs.	
		Standard Standard Equipment Golden College (Combustion: Beckett Oil Burner, Target Wall/L Electrical: Wiring Harness, Burner Electric Dis Safety: Electronic Low Water Cut Off. Other: Crated Boiler, Flush Jacket, ASME Reli 1-1/2" Return Tapping and Skim Port. For Tankless Heater Units: Add Tankless Hot N						with Cast I I/Liner. Disconnect. elief Valve,	ron Push I	Nipples, Sv	ving Door. Cover, Tw		Ü	
	Opti	ons	Tankless Coil.											
	Cert	ifications	Tested for 15 psi ASME Working Pressure CERTIFIED® www.ahridirectory.org											

All ratings and specifications subject to change.

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Contractor







