



COLUMBIA[®]

KEEPING FAMILIES  *WARM SINCE 1936*

CSFE 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 Cutoff.
- Atmospheric Chimney Vent Boiler.
- Textured paint Jacket with compact footprint.
- Cast Iron swing door and large flue ways allow for easy cleaning and servicing.
- 10 Year Limited Warranty (Residential Applications).
- Made in the U.S.A.



Columbia CSFE Series IV Residential Oil Fired Water Boiler

Dimensional Diagram	Model	AHRI Oil Burner Input ⁽¹⁾		Htg. Cap. MBH ⁽⁴⁾	Net AHRI Ratings ⁽³⁾		Min. Nat. Draft Chimney Size		Pump Press. PSI	Nozz. Furn.	AFUE %	
		G.P.H.	MBH ⁽²⁾		Steam MBH	Sq. Ft. Steam	Round	Square				
<p>Front View</p>	Without Tankless	CSFE-3090S	0.90	126	106	80	333	6"	8"x8"x15'	150	0.75-60°B	82.0%
		CSFE-4125S	1.25	175	147	110	458	6"	8"x8"x15'	140	1.10-60°B	82.0%
		CSFE-5185S	1.85	259	216	162	675	8"	8"x8"x15'	150	1.50-70°B	82.0%
		CSFE-6210S	2.10	294	247	185	771	8"	8"x8"x15'	145	1.75-70°B	82.0%
	With Tankless	CSFE-3090ST	0.90	126	106	80	333	6"	8"x8"x15'	150	0.75-60°B	82.0%
		CSFE-4125ST	1.25	175	147	110	458	6"	8"x8"x15'	140	1.10-60°B	82.0%
		CSFE-5185ST	1.85	259	216	162	675	8"	8"x8"x15'	150	1.50-70°B	82.0%
		CSFE-6210ST	2.10	294	247	185	771	8"	8"x8"x15'	145	1.75-70°B	82.0%
<p>(1) Burner input is based on an oil heating value of 140,000 Btu/gal. (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.</p>												
General Information (See Installation, Operation and Maintenance Manual for complete instructions)												
<p>Side View</p>	Clearances Required distances measured from boiler.	Combustible Materials (Required)										
		Top	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 2" NPT, Return Tapping 1-1/2", Oil Line 3/8" O.D. copper tubing for runs of 50 feet or less, and 1/2" O.D. for longer runs.										
Electrical		120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended).										
Tankless Heater Capacities	Model	Input Rate G.P.H.	Tankless Heater Number	Tankless Heater Capacity Intermittent Draw G.P.M.	Boiler Water Content (Gallons)							
					To Water Line	To LWCO Line						
	CSFE-3090ST	0.90	L-24	Avail. On Req.	11	8						
	CSFE-4125ST	1.25		4.5	13	9						
	CSFE-5185ST	1.85		4.5	15	10						
CSFE-6210ST	2.10	4.5		15	10							
Dimensions/Weights	No. of Sec.	A (Length of Flush Jacket)		B (Front of Jacket to Center Line of Flue Outlet)		C (Flue Outlet Diameter)		Weight				
	3	16.375"		6.5"		6"		534 lbs.				
	4	20.25"		8.5"		6"		688 lbs.				
	5	23.875"		10.25"		7"		781 lbs.				
	6	27.5"		8.3125"		8"		901 lbs.				
Standard Equipment		Boiler Controls: Honeywell Pressuretrol, Boiler Water Level Gauge Glass, and Steam Pressure Gauge. 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, 2" Supply Tapping, 1-1/2" Return Tapping and Skim Port. For Tankless Heater Units: Add Tankless Hot Water Coil and 4006 Limit Control.										
Options		Taco, Grundfos or Less Pump; Tankless Coil.										
Certifications		<p>Tested for 15 psi ASME Working Pressure</p>										

All ratings and specifications subject to change.

PN 240009898 Rev. Rev. 10/12

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