



Starfire SFH

There are some things you can always depend on...

Oil Fired Hot Water Boiler

Up to 86% AFUE

Exceptional Heat Exchanger Design

Features a dependable cast iron heat exchanger with cast iron push nipple connections. The sections and push nipples expand at the same rate when heated. By using similar materials instead of less expensive gaskets or steel push nipples, the boiler maintains a water tight seal.

Hydrolevel Operating Control

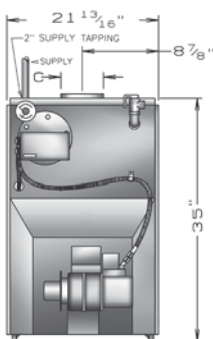
- Features digital display and diagnostics
- Adjusts the water temperature based on your heating system demand which further reduces your heating costs
- Built-in low water cut-off (LWCO) to protect the boiler from potentially dangerous low water conditions

Optional Tankless Domestic Water Heater Coil

Limited Lifetime Heat Exchanger Warranty

Built by American Craftsmen Since 1928



Dimensional Diagram	Model	AHRI Oil Burner Input ⁽¹⁾		Heating Capacity MBH ⁽³⁾	Net AHRI Ratings ⁽²⁾		Min. Natural Draft Chimney Size	AFUE ⁽³⁾
		G.P.H.	MBH		Water MBH			
Front View 	SFH-3085W	0.85	119	103	90	8"x8"x15'	85.0%	
	SFH-3100W	1.00	140	119	103	8"x8"x15'	84.0%	
	SFH-4100W	1.00	140	122	106	8"x8"x15'	86.0%	
	SFH-4125W	1.25	175	151	131	8"x8"x15'	85.0%	
	SFH-4145W	1.45	203	173	150	8"x8"x15'	84.0%	
	SFH-5160W	1.60	224	193	168	8"x8"x15'	85.0%	
	SFH-5185W	1.85	259	221	192	8"x8"x15'	84.0%	
	SFH-6175W	1.75	245	212	184	8"x8"x15'	85.0%	
	SFH-6210W	2.10	294	252	219	8"x8"x15'	84.0%	
(1) Oil burner input based on 140,000 Btu per gallon.								
2)Net AHRI water ratings shown are based on a piping and pickup allowance of 1.15. Consult manufacturer before selecting a boiler for installation having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.								
3) 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)								
Clearances Required distances measured from boiler.	Top					Combustible Materials (Required)		
						24" (610 mm)		
	Sides					6" (152 mm)		
	Front					24" (610 mm)		
	Rear					6" (152 mm)		
	Flue Connector					9" (229 mm)		
Connections (All Models)	Supply Tapping - 2", Return Tapping 1-1/2" NPT, 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)		
	SFH-3085WT	0.85	T3	3		10.5		
	SFH-3100WT	1.00	T3	3-1/4		10.5		
	SFH-4100WT	1.00	T4	3-1/4		13.5		
	SFH-4125WT	1.25	T4	3-3/4		13.5		
	SFH-4145WT	1.45	T4	4		13.5		
	SFH-5160WT	1.60	T4	4		16.5		
	SFH-5185WT	1.85	T4	4-1/4		16.5		
	SFH-6175WT	1.75	T4	4-1/4		19.5		
SFH-6210WT	2.10	T4	4-1/2		19.5			
Dimensions/Weights	No. of Sec.	A (Depth of Flush Jacket)		B (Front of Jacket to Center Line of Flue Outlet)		C (Flue Outlet Diameter)		Weight
	3	17-7/8"		11-1/4"		6"		534 lbs.
	4	21-1/2"		12-5/8"		6"		668 lbs.
	5	25-1/8"		14-1/4"		7"		781 lbs.
	6	29-1/4"		15-15/16"		8"		901 lbs.
Standard Equipment	Boiler Control Module: Hydrolevel Fuel Smart Hydrostat Control - combination Low Water Cut Off with boiler temperature reset and circulator control. Heat Exchanger: Cast Iron Heat Exchanger with Cast Iron Push Nipples. Swing out Burner Door. Combustion: Oil Burner, Target Wall/Liner. Electrical: Wiring Harness, Burner Electrical Disconnect. Other: Crated Boiler, Flush Jacket, Circulator- 1 1/4", Supply Tapping-2", Return Tapping-1 1/2", Temperature Pressure Gauge, Safety Relief Valve, Drain Valve.							
Options	Pumps: Taco, Grundfos or Less Pump. Burners: Beckett, Carlin or Riello. Tankless Coil.							
Certifications								