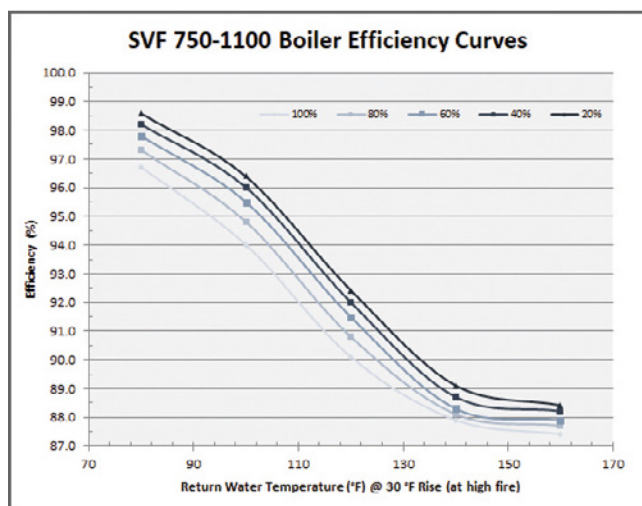


High Efficiency Condensing Boiler 750–1100 MBH

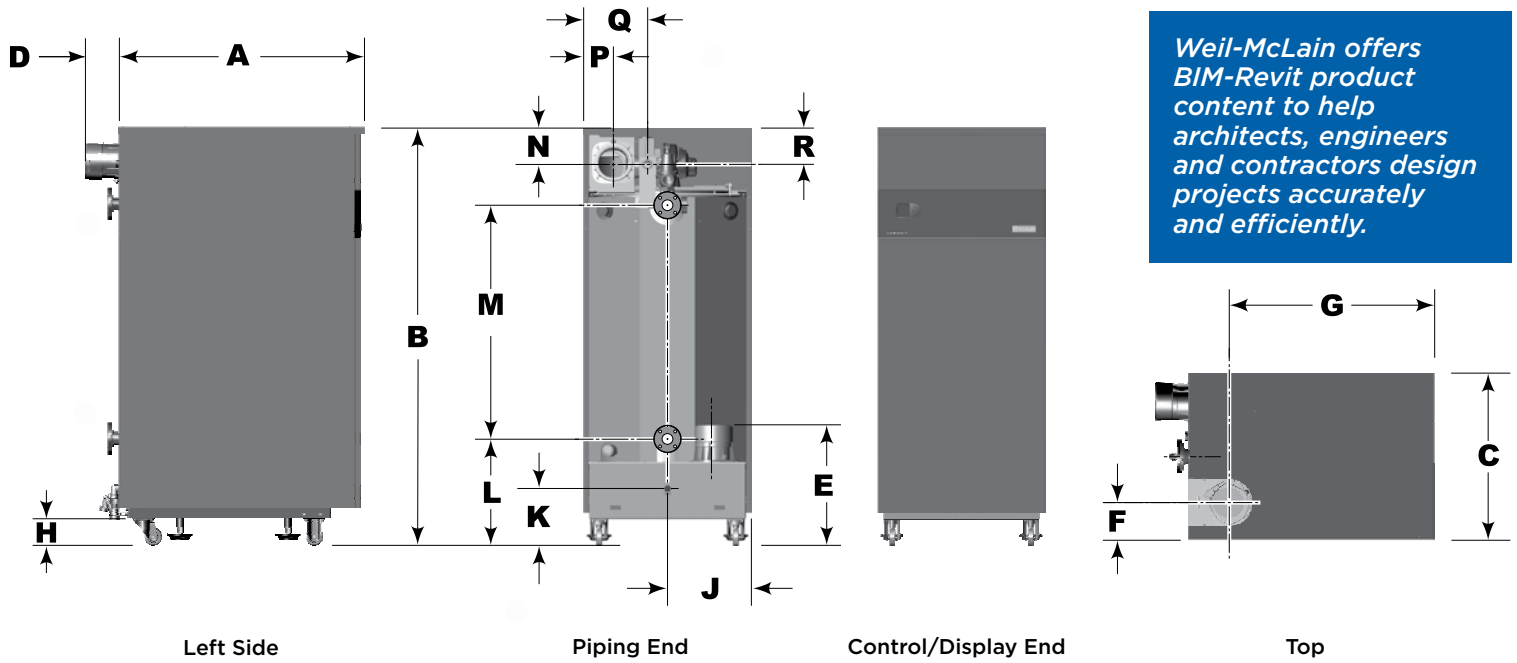
Specifications	SVF 750	SVF 1000	SVF 1100
Max Input MBH	785	1000	1134
Min Input MBH	157	227	227
Gross Output MBH	756	968	1101
Net AHRI MBH	657	842	957
Thermal Efficiency (AHRI Ratings)	96.3%	96.8%	97.1%
Combustion Efficiency (AHRI Ratings)	96.8%	97.0%	97.3%
Type of Gas	Natural Gas or Propane		
Turn Down	5:1	4.4:1	5:1
Max, Allowed Working Pressure	160 PSI		
Supply/Return Connections	2" Flange	3" Flange	3" Flange
Gas Connection Size	1 1/4" Male NPT		
Min/Max Gas Pressure	4" w.c./14" w.c.		
Operating Min/Max Water Temperature	50° F/190° F		
Min/Max Water Flow	17 gpm/75 gpm	25 gpm/109 gpm	25 gpm/109 gpm
Water Pressure Drop	3.9 ft. w.c. (@ 50 gpm)	4.3 ft. w.c. (@ 73 gpm)	4.3 ft. w.c. (@ 73 gpm)
Water Volume	101	140	140
Ambient Temperature Range	40-120° F		
Electrical Requirement	(120/1/60) 11.7 FLA	(120/1/60) 14.2 FLA	(120/1/60) 14.2 FLA
NOx Emissions	<20 ppm	<20 ppm	<30 ppm
Boiler Category	ASME Sect. IV		
Standard Listing & Approvals	ASME, AHRI, CSA		
Gas Train Operations	CSD-1		
Vent Rating	CAT II & IV		
Vent Material	PVC, CPVC, PP, SS (AL29-4C)		
Vent/Air Size	6"		
Min/Max Vent/Air Length (ea)	7'/100'		
Length	52.9"	56.6"	56.6"
Width	31.7"	35.6"	35.6"
Height	79.4"		
Dry Weight	1,230 lbs	1,560 lbs	1,560 lbs
Wet Weight	2,072 lbs	2,728 lbs	2,728 lbs
Shipping Weight	1,565 lbs	1,875 lbs	1,875 lbs



Return Water Temperatures*					
Input	80	100	120	140	160
100%	96.7	94.0	90.1	87.9	87.4
60%	97.8	95.5	91.5	88.3	87.9
20%	98.6	96.4	92.4	89.1	88.4

*Test was conducted at a flow rate which gave a 30°F rise at 100% input rate.

Dimensions and Product Specifications



Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
SVF 750	46 ⁵ / ₁₆ "	79 ³ / ₈ "	31 ⁵ / ₁₆ "	6 ⁵ / ₁₆ "	22 ¹⁵ / ₁₆ "	6 ⁷ / ₈ "	38 ¹¹ / ₁₆ "	5 ¹ / ₄ "	15 ³ / ₄ "	11"	20 ³ / ₈ "	44 ³ / ₈ "	6 ⁷ / ₁₆ "	5 ¹ / ₄ "	12"	6 ¹⁵ / ₁₆ "
SVF 1000/1100	50 ⁷ / ₈ "	79 ³ / ₈ "	35 ⁵ / ₁₆ "	5 ¹¹ / ₁₆ "	22 ¹⁵ / ₁₆ "	7 ³ / ₁₆ "	42 ¹³ / ₁₆ "	5 ¹ / ₄ "	17 ³ / ₄ "	11"	20 ³ / ₈ "	43 ³ / ₄ "	6 ⁷ / ₁₆ "	5 ⁵ / ₁₆ "	13 ³ / ₁₆ "	5 ⁷ / ₁₆ "

(height dimensions based on 5 ¹/₄" spacing from floor to bottom)

Model No.	Thermal Efficiency	Max Pressure (psi)	Max Input (MBH)	Gross Output (MBH)	Net AHRI Rating (MBH)	Turn Down	Water Conn	Gas Conn	Air/Intake Vent Size (Diameter)	Length	Width	Height	Shipping Weight (lbs)
SVF 750	96.3%	160	785	756	657	5:1	2" Flange	1 ¹ / ₄ "	6"	52.9"	31.7"	79.4"	1,565
SVF 1000	96.8%	160	1,000	968	842	4.4:1	3" Flange	1 ¹ / ₄ "	6"	56.6"	35.6"	79.4"	1,875
SVF 1100	97.1%	160	1,134	1,101	957	5:1	3" Flange	1 ¹ / ₄ "	6"	56.6"	35.6"	79.4"	1,875

Industry Leading Efficiency

- Up to 97.1% Thermal Efficiency*
- ASME Certified Stainless Steel Firetube Heat Exchanger and Shell
- "Clover" tube design for maximum heat transfer
- 160 psi Working Pressure
- 30 psi Relief Valve
- Pickled and Passivated Welded Design

Modulating, Low Emissions Burner Design

- Natural Gas or Propane
- Down to <20 ppm NOx Emissions*
- 5:1 Turndown Ratio*
- Low Gas Pressure Operation
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Venturi Mixing System
- Negative Pressure Regulated Gas Valve
- 50 VA Transformer
- Temperature & Pressure Gauge
- Outdoor Water Temp. Sensor
- Outlet & Inlet Water Temp. Sensor
- Flue Gas Temp. Sensor
- System Water Temp. Sensors
 - Immersion Style—Supply & Return

Venting Options

- Direct Exhaust—Sidewall & Vertical (CAT II)
- Direct Vent—Sidewall, Vertical, & Side Intake with Vertical Exhaust (CAT II)
- Direct Exhaust—Vertical (CAT IV)

Complete Jacket Assembly

- Fully Removable Jacket
- Rugged, Steel Frame & Panels
- Manual Reset Push Button through Display

Easy Install/Serviceability

- Easy Set-up with Control Wizard
- Industrial-Grade Roller Casters
- Shipping Crate Ramp
- Hinged Cover Plate
- "Door-Fit" Design
- Zero-Clearance to Combustibles
- Low-Profile, Stainless Steel Burner with Woven Steel Fiber Mesh
- Removable, Stainless Steel Condensate Tray
- Single-Point Installation
 - All Field Connections out Back of Boiler

Multiple Boiler Features

- Up to 8 Boilers, Multiple System functionality with Lead/Lag Capability
- Series, Parallel, or SmartSequencing™
- Lead Boiler Rotation
- Variable Primary Flow Design Capable
- (3) Boiler Priorities Capability
 - Either (2) network and (1) local or (1) network and (2) local
- (24) Zone Inputs and Outputs with (8) Total Cascaded
- Boiler via Zone Stacking™
- Aux Inputs—Flow End or Switch End
- System Aux Outputs—System Pump or Damper

Control Features

- 120 VAC/60 Hertz/1 Phase
- Operating Status Color LCD Display
- Preset Operating Parameters Including Typical Heating Systems
- Configurable Outdoor Reset
- Rate Setting for Each Input/Output
- 0-10V Input (Modulation or Set Point)
- Standard Modbus Connectivity
- Additional Heat Demand Functionality
- Contact with 0-10V Output
- Labeled Terminal Blocks for Field Terminations
- Ignition Control
- High Limit & Modulating Temp. Control
- Alarm Control Functionality
- Onboard Time & Date
- Low Water Cut-Off
- Manual Reset
- Warm Weather Shutdown
- Freeze Protection
- Boiler Service Interval & Contractor Info

CSD-1 Compliant

- Manual Reset LWCO
- Manual Reset High & Low Gas Pressure Switches
- UL 353 Certified High Limit Control with Manual Reset
- UL 353 Certified Operating Control

Non-Pro-Rated Warranty

- 10 Year Heat Exchanger Warranty
- 2 Year Parts Warranty

Weil-McLain offers BIM-Revit product content to help architects, engineers and contractors design projects accurately and efficiently.

Optional Equipment

- Pressure Relief Valve—30/50/80/100/150 psi
- System Water Temp. Sensors
 - Strap-On—Supply & Return
- BacNet or LonWorks Converter Kit
- Annual Maintenance Kit
- Corrosion Inhibitor
- Condensate Neutralizer Kit
- Anti-Freeze

Boiler Certifications

- ASME IV, CSA, AHRI, Commercial Energy Star, SCAQMD

In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.

Ultra-Low NOx

Designed specifically for highly-regulated emissions regions, the **SVF 750 & SVF 1000** are South Coast Air Quality Management District (SCAQMD) certified with the **SVF 1100** meeting <30 ppm emissions requirements.

*model dependent



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