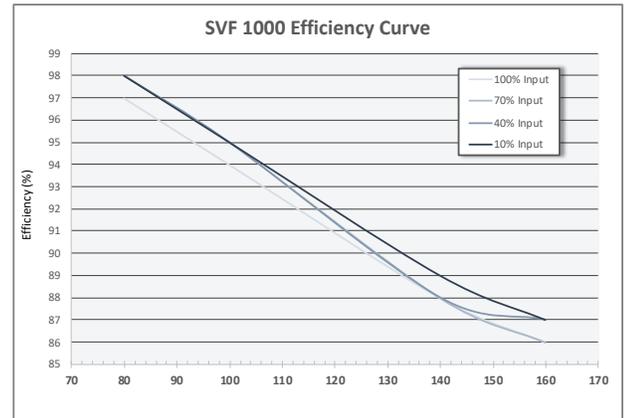


**High Efficiency Condensing Boiler 1000 MBH**

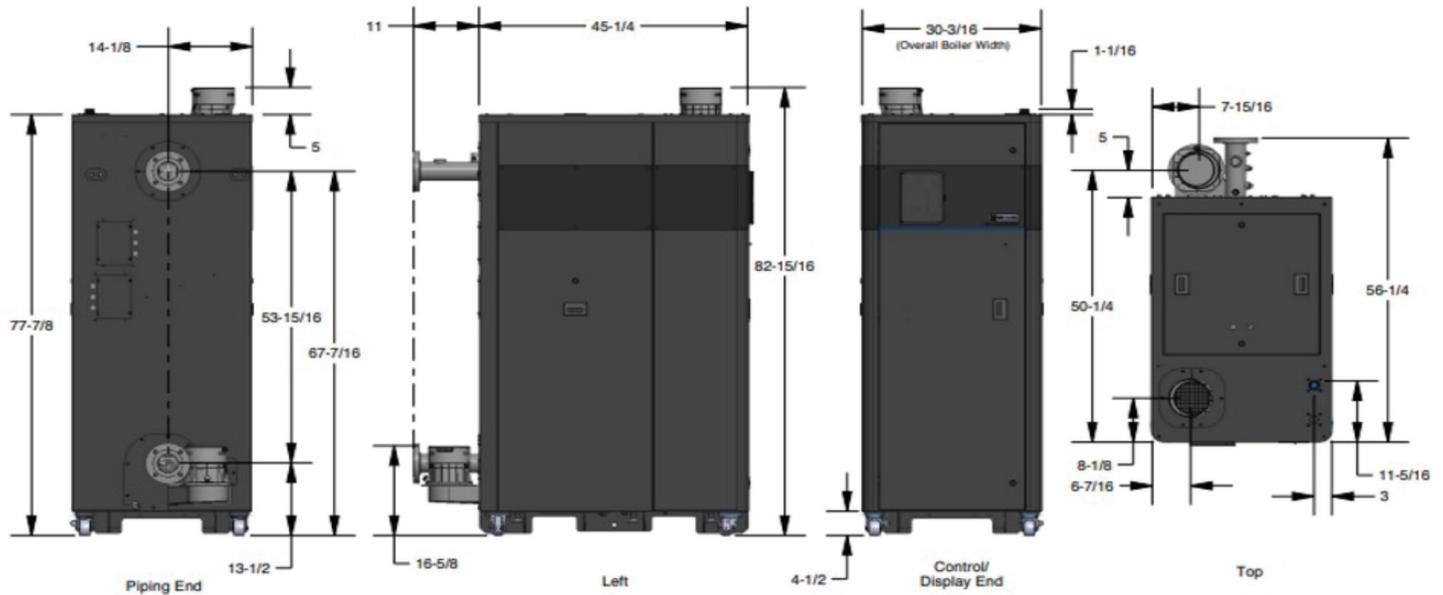
	Specifications	SVF 1000
Heat Exchanger	Maximum Input MBH	1000
	Minimum Input MBH	100
	Gross Output MBH	965
	Thermal Efficiency - AHRI Ratings	96.5%
	Turn Down	10:1
	BTU Gross Output / Gallon of Water	13
Fuel	Fuel Type	NG
	Minimum / Maximum Gas Pressure (w.c.)	3 -½" - 14
	Gas Connection NPT Size	1-¼"
System Water	Maximum Allowed Working Pressure	160 PSIG
	Water Volume	77
	Supply / Return Flange Connections	3" (Flange)
	Water Pressure Drop	1.2 ft. w.c. (@ 64 gpm)
	High-Limit Maximum Temperature	210° F
	Operating Minimum / Maximum Water Temperature	50° F / 190° F
	Maximum Water Flow (gpm)	96
	100% Firing Rate Water Flow (gpm)	32
	Ignition / 50% Firing Rate Water Flow (gpm)	24
	Low Firing Rate Water Flow (gpm)	10
Electrical	Ambient Operating Temperature Range	40° – 120° F
	Electrical Requirement	(120/1/60) 10 Amp
Venting / Emissions	Vent / Air Size (inches)	6"
	Min / Max Vent / Air Length (ea.)	6' / 100'
	Vent Material	PVC, CPVC, PP, SS (AL29-4C)
	Vent Rating	CAT II & IV
	Stack Vent Flow Rate (cfm)	277
Certs	Boiler Category	ASME Sect. IV
	Standard Listing & Approvals	ASME, AHRI, CSA
	Gas Train Operations	CSD-1
Dims	Length (inches)	56 ¼"
	Width (inches)	30 ¾"
	Height (inches)	78 ¾"
Weights	Dry Weight (approximate pounds.)	1511
	Operating Weight (approximate pounds)	2150
	Shipping Weight (approximate pounds)	1750



Input	Return Water Temperatures*			
	80°F	100°F	140°F	160°F
100%	97.0%	94.0%	88.0%	86.0%
70%	98.0%	95.0%	88.0%	86.0%
40%	98.0%	95.0%	88.0%	87.0%
10%	98.0%	95.0%	89.0%	87.0%

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

# SVF 1000 Dimensions and Product Specifications



Model No.	Minimum Thermal Efficiency	Max Pressure (psi)	Max Input (MBH)	Turn Down	Water Volume (gal)	Water Conn	Gas Conn	Air/Intake Vent Size (Diameter)	Length	Width	Height	Shipping Weight
SVF 1000	96.5%	160	1000	10:1	77	3"	1-1/4"	6"	56 1/4"	30 3/16"	78 3/16"	1750 Lbs

## Industry Leading Efficiency

- 96.5% Thermal Efficiency
- ASME Certified Stainless Steel Firetube Heat Exchanger and Shell
- Advanced Design Firetube Geometry with Robotic Weldments for Maximum Heat Transfer and Reliability

## Standard Features

- Natural Gas
- 10:1 Turndown
- 160 psi Working Pressure
- 30 psi Relief Valve
- Low Gas Pressure Operation
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Air-Fuel Venturi Mixing System
- Negative Pressure Regulated Gas Valve
- Temperature & Pressure Gauge
- Outdoor Temp. Sensor
- Outlet & Inlet Water Temp. Sensor
- Flue Gas Temp. Sensor
- System Water Temp. Sensors
- Immersion Style—Supply & Return

## Venting Options

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

## Complete Jacket Assembly

- Fully Removable Jacket
- Rugged, Steel Frame & Panels

## Easy Install/Serviceability

- Easy Set-up with Control Wizard
- Industrial-Grade Roller Casters and Leveling Legs
- Shipping Crate Ramp
- "Door-Fit" Design
- Zero-Clearance to Combustibles
- Stainless Steel Burner with Woven Fiber Mesh
- Single-Point Installation
  - All Field Connections (Excludes Gas/Front) Out Back of Boiler

## Enhanced Controls Specification

- 7" Color Touchscreen
- Two USB Ports - Charging and Mouse Capable
- One Ethernet Port
- One BMX Modbus RTU Port
- One Boiler Cascade Port

## Control Features

- Setup Wizard provides guided setup for virtually all applications
- Real time visual alarms with diagnostics and troubleshooting tips
- "Black Box" error trending providing performance data 10 minutes before and after error
- User selectable control algorithms allow for customized PID
- Upgradeable software through USB

- Import and export parameters allow for copying complex parameters to other boilers and restoring settings
- Fully customizable night setback with relay for BMS and onboard 7 day schedule
- Outdoor air setpoint (ODA curve)
- Virtual technician with help buttons on all parameters
- CH and DHW priority mode to alternate between or simultaneously meet CH and DHW demands
- Customizable info screen for adding or removing information
- Screen shots capture current screen picture
- Setpoint boost for temporary "boosting" of setpoint
- Set delays to activate once every set time period with Relay Exercise

## 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

## Optional Equipment

- Pressure Relief Valve—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.*

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