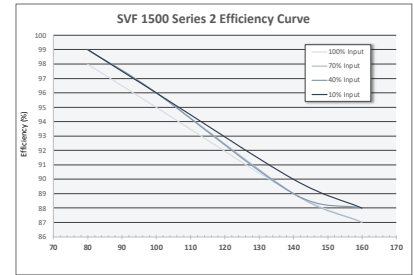


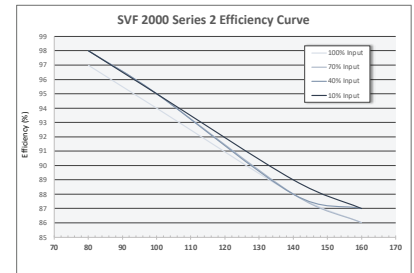
High Efficiency Condensing Boiler 1500–3000 MBH

	Specifications	SVF 1500	SVF 2000	SVF 2500	SVF 3000	
Heat Exchanger	Maximum Input MBH	1500	2000	2500	3000	
	Minimum Input MBH	150	200	250	300	
	Gross Output MBH	1440	1920	2400	2886	
	Thermal Efficiency - AHRI Ratings	96.0%	96.0%	96.0%	96.2%	
	Turn Down	10:1	10:1	10:1	10:1	
	BTU Gross Output / Gallon of Water	12.2	16.3	16.1	19.4	
Fuel	Fuel Type	NG		NG		
	Minimum / Maximum Gas Pressure (w.c.)	3-1/2" - 14		3-1/2" - 14		
	Gas Connection NPT Size	2"		2"		
System Water	Maximum Allowed Working Pressure	160 PSIG		160 PSIG		
	Water Volume	118		149		
	Supply / Return Flange Connections	3"		3"		
	Water Pressure Drop	1.7 ft. w.c. (@ 97 gpm)"	2.5 ft. w.c. (@ 127 gpm)"	4.1 ft. w.c. (@ 162 gpm)"	5.2 ft. w.c. (@ 190 gpm)"	
	High-Limit Maximum Temperature	210° F		210° F		
	Operating Minimum / Maximum Water Temperature	42° F / 185° F		42° F / 185° F		
	Maximum Water Flow (gpm)	192	192	288	288	
	100% Firing Rate Water Flow (gpm)	48	64	80	96	
	Ignition / 50% Firing Rate Water Flow (gpm)	58	77	96	115	
	Low Firing Rate Water Flow (gpm)	20	20	25	25	
Electrical	Ambient Operating Temperature Range	40° - 120° F		40° - 120° F		
	Electrical Requirement	(208/1/60) 13.4 FLA		(208/1/60) 13.4 FLA		
Venting / Emissions	Vent / Air Size (inches)	10"		10"		
	Min / Max Vent / Air Length (ea.)	8"		10"		
	Vent Material	8' / 100'		10' / 100'		
	Vent Rating	CPVC, PP, SS (AL29-4C)		CPVC, PP, SS (AL29-4C)		
	Stack Vent Flow Rate (cfm)	415	553	692	830	
Certs	Boiler Category	ASME Sect. IV		ASME Sect. IV		
	Standard Listing & Approvals	ASME, AHRI, CSA		ASME, AHRI, CSA		
	Gas Train Operations	CSD-1		CSD-1		
Dims	Length (inches)	84 5/16"		86 15/16"		
	Width (inches)	35 3/8"		35 3/8"		
	Height (inches)	80 3/4"		80 3/4"		
Weights	Dry Weight (approximate pounds.)	2020		2225		
	Operating Weight (approximate pounds)	3000		3470		
	Shipping Weight (approximate pounds)	2445		2650		



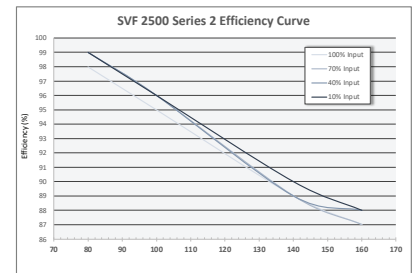
Input	Return Water Temperatures*			
	80°F	100°F	140°F	160°F
100%	98.0%	95.0%	89.0%	87.0%
70%	99.0%	96.0%	89.0%	87.0%
40%	99.0%	96.0%	89.0%	88.0%
10%	99.0%	96.0%	90.0%	88.0%

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



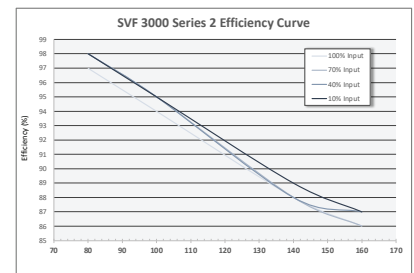
Input	Return Water Temperatures*			
	80°F	100°F	140°F	160°F
100	97.0%	94.0%	88.0%	86.0%
70	98.0%	95.0%	88.0%	86.0%
40	98.0%	95.0%	88.0%	87.0%
10	98.0%	95.0%	89.0%	87.0%

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



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	80°F	100°F	140°F	160°F
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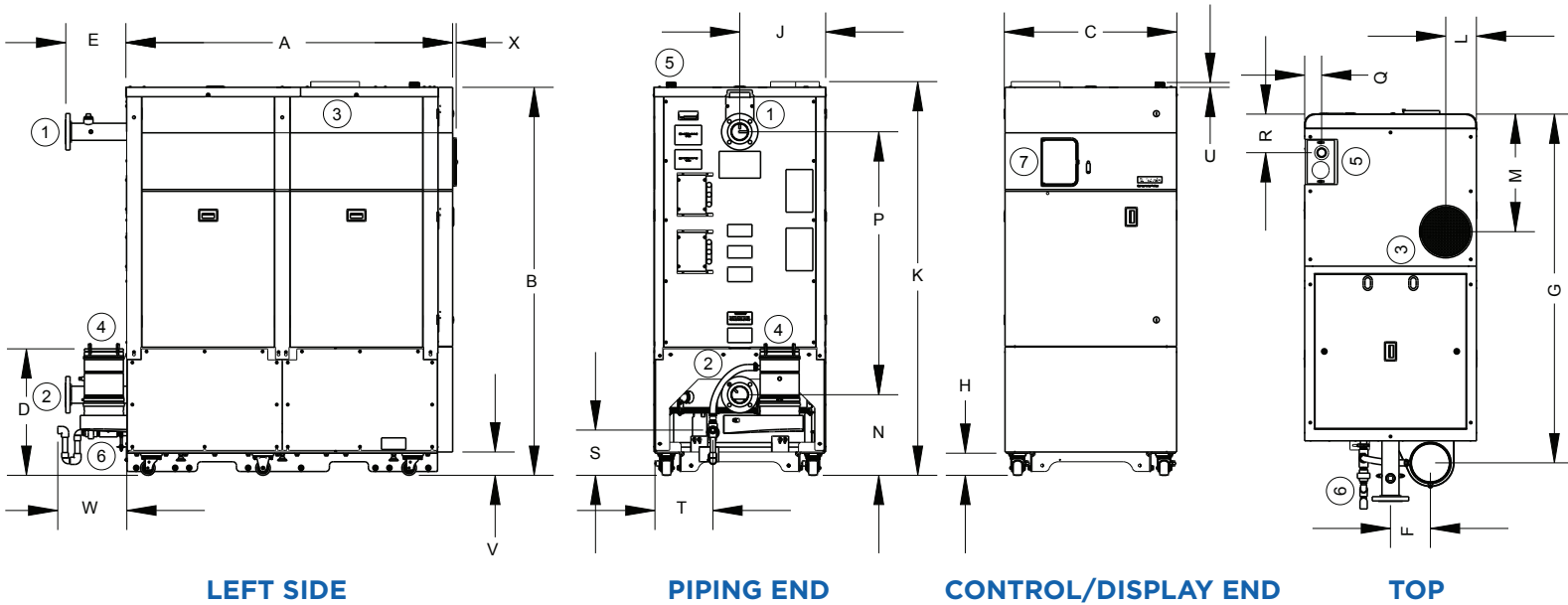
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Input	Return Water Temperatures*			
	80°F	100°F	140°F	160°F
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10	98.0%	95.0%	89.0%	87.0%

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

Dimensions and Product Specifications



Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
1500/2000	67	79 5/8	3 3/8	25 15/16	12 5/16	8 3/16	71 1/16	4 1/2	17 5/8	80 3/4	6 5/16	24 1/8	16 1/2	53 15/16	3 1/2	7 15/16	9 1/4	11 7/8	1	4 13/16	14 3/16	3/4
2500/3000	67	79 5/8	35 3/8	25 15/16	14 15/16	8 13/16	72 1/16	4 1/2	17 5/8	80 3/16	6 3/4	22 1/4	16 5/16	53 15/16	3 1/4	11 1/2	8 1/4	10 1/4	15/16	4 13/16	14 5/16	3/4

Model No.	Max Input (MBH)	Min Output (MBH)	Minimum Thermal Efficiency	Combustion Efficiency	Max Pressure (psi)	Turn Down	Water Conn	Gas Conn	Vent Diameter	Length	Width†	Height	Approx. Shipping Weight
SVF 1500	1500	1440	96.0%	---	160	10:1	3" Flange	1 1/2" FNPT	8"	79 5/16"	35 3/8"	80 3/4"	2500
SVF 2000	2000	1920	96.0%	---	160	10:1	3" Flange	1 1/2" FNPT	8"	79 5/16"	35 3/8"	80 3/4"	2500
SVF 2500	2500	2400	96.0%	---	160	10:1	3" Flange	2" FNPT	10"	79 5/16"	35 3/8"	80 3/4"	2700
SVF 3000	3000	2880	96.0%	96.2%	160	10:1	3" Flange	2" FNPT	10"	79 5/16"	35 3/8"	80 3/4"	2700

**Turn down ratios for natural gas, refer to engineering tech data for propane. †34 3/4" with easy removal of jacket side panels.

Industry Leading Efficiency

- 96.0% Thermal Efficiency
- ASME Certified Stainless Steel Firetube Heat Exchanger and Shell
- Alternating, Opposed Indentation Firetube Geometry for Maximum Heat Transfer
- 160 psi Working Pressure
- 30 psi Relief Valve

Modulating, Low Emissions Burner Design

- Natural Gas
- 10:1 Turn Down
- Low Gas Pressure Operation
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Intake Combustion Air Filter
- Negative Pressure Regulated Gas Valve
- 50 VA Transformer
- 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
- SVF 1500/2000 - 120V/1Ph/60Hz
- SVF 2500/3000 - 240V/3Ph/60Hz
- SVF 2500/3000 - 480V/3Ph/60Hz
- Industrial-Grade Roller Casters and Leveling Legs
- Shipping Crate Ramp
- Hinged Cover Plate
- Stainless Steel Burner with Woven Fiber Mesh
- Removable, Stainless Steel Condensate Tray
- Single-Point Installation
 - All Field Connections (Excludes Gas/Front) Out Back of Boiler

Enhancement 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 relays 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
- SCAQMD
- Commercial Energy Star

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