

SVF[™] | STAINLESS
VERTICAL
FIRETUBE

Firetube
performance,
perfected.



Expanding the power of stainless: Our state-of-the-art 500–600 MBH firetube boiler.

SVF 500–600 Stainless Steel Vertical Firetube models deliver reliable, ultra-efficient heating solutions through the use of the highest quality materials and cutting edge design. These powerful new boilers are ideal for multi-family home, school, municipal and light commercial heating projects.

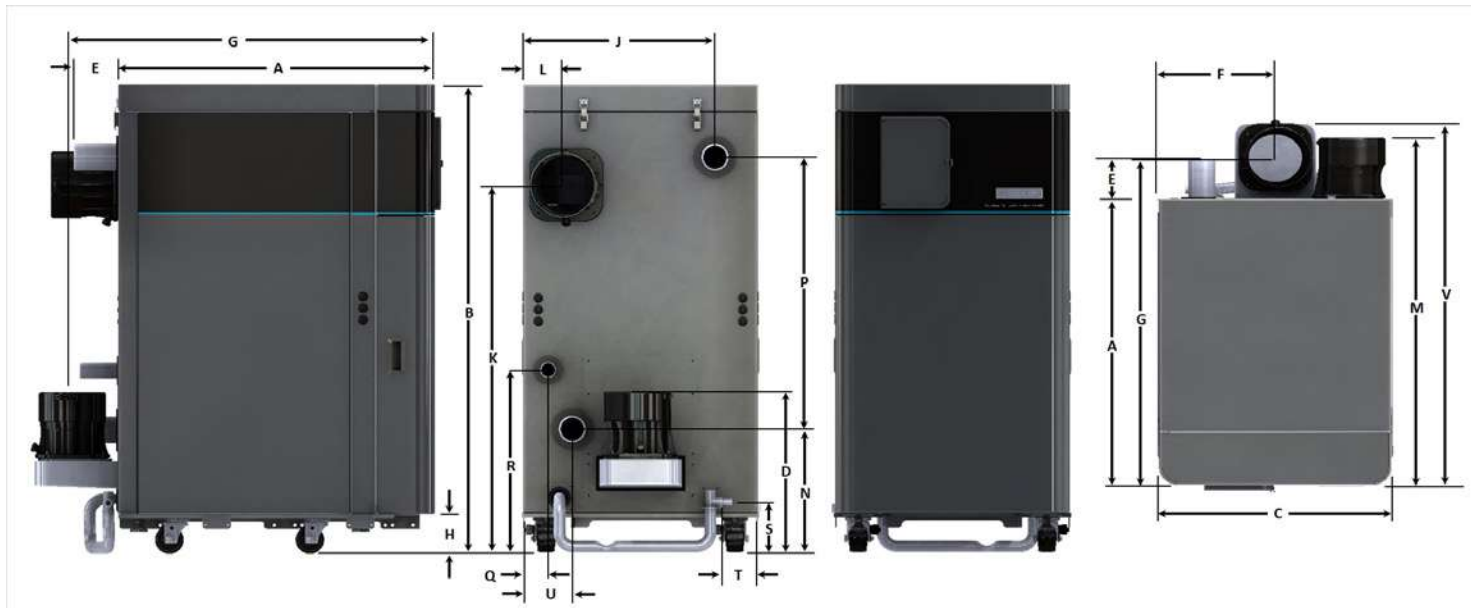
- 98.0% minimum thermal efficiency
- Vertical, stainless steel heat exchanger
- Available in 500 and 600 MBH sizes
- Water boiler, natural gas applications
- 160 psi working pressure
- Up to 12:1 turn down ratio
- Integrated roller casters and leveling legs for contractor-friendly installation
- Compact footprint for optimized boiler room floor space
- Zero clearance, side-by-side installation capable
- Quick install 3-in-1 intake and exhaust vent flue adaptors
- Color touchscreen control interface with powerful maintenance and diagnostic logic
- Weil-McLain built-to-last reliability and longevity



Solutions that Matter[™]

www.weil-mclain.com

SVF 500-600 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 |
|-------------|---------|-----------|---------|----------|--------|----------|----------|---------|----------|----------|---------|---------|----------|-----|--------|---------|--------|----------|--------|----------|
| SVF 500 600 | 33-3/8" | 49-13/16" | 24-7/8" | 17-1/16" | 4-3/4" | 12-1/16" | 38-3/16" | 4-4/16" | 20-5/16" | 39-3/16" | 4-9/16" | 42-1/8" | 13-3/16" | 29" | 2-5/8" | 19-1/2" | 5-3/8" | 3-13/16" | 5-1/4" | 42-3/16" |

| Model No. | Minimum Thermal Efficiency | Max Pressure (psi) | Max Input (MBH) | Max output (MBH) | Turn Down | Water Volume (gal) | Water Conn | Gas Conn | Air/Intake Vent Size | Length | Width | Height | Shipping Weight |
|-----------|----------------------------|--------------------|-----------------|------------------|-----------|--------------------|------------|----------|----------------------|----------|---------|----------|-----------------|
| SVF 500 | 98.0% | 160 | 500 | 490 | 10:1 | 12 | 2" | 1 1/4" | 4" | 42 3/16" | 24 7/8" | 49 3/16" | 572 |
| SVF 600 | 98.0% | 160 | 600 | 588 | 12:1 | 12 | 2" | 1 1/4" | 4" | 42 3/16" | 24 7/8" | 49 3/16" | 572 |

Industry Leading Efficiency

- Up to 98% 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
- Up to 12:1 Turndown Ratio*
- 160 psi Working Pressure
- 30 psi Relief Valve
- Low Gas Pressure Operation
- Direct Spark Ignition
- Variable Speed Blower Assembly
- 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

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

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

Venting Options

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

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

Unity 2.0 Controller

- Color Touchscreen Display
- Easy-Navigate Logic
- Intuitive Prompts and Functionality

Control Features

- Zone and/or Priority-Based Control
- Ten Preloaded System Types including Custom-Design
- 0-10V Input (Modulation of Setpoint)
- Outdoor Reset for Each Priority
- Rate Adjustment per Priority
- Individually Fused 120V Outputs
- Warm Weather Shutdown
- System Match Blower Control with Rapid Response
- Rectified Flame Detection for Supervision and Boost Override
- 24 Hour Operational Trend Collection
- Before/After Fault Detection Data Logging

Boiler and Building Management System Compatible

- Variable Speed Boiler Pump Control for Variable/Primary Applications
- 8-Boiler Sequencing
- Modbus Communication
- Additional Heat Demand Output for Hybrid System Control

Boiler Certification

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

Non-Pro-Rated Warranty

- 10 Year Heat Exchanger Warranty
- 2 Year Parts Warranty

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

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

*model dependent



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