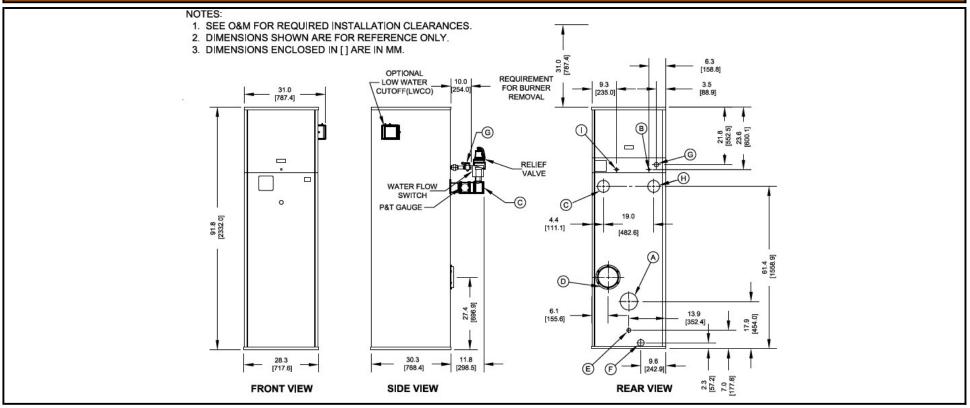


Submittal Data Sheet



| KEY | <u>DESCRIPTION</u> | | | |
|-----|--------------------------------|--|--|--|
| Α | Flue Outlet | 6" [152.4] Diameter (AL29-4C SS) | | |
| В | Factory Installed Pilot Gas Li | 1/4" [6/4] O.D. Tube | | |
| С | Water Supply to System | 3" NPT | | |
| D | Inlet Air | 8" [203.2] Diameter | | |
| E | Drain, Startup Condensate | 5/8" [15.9] O.D. Tube SS | | |
| F | Appliance Drain | 1" NPT | | |
| G | Gas Supply | 1 1/2" NPT | | |
| H | Water Return from System | 3" NPT | | |
| | Optional Gas Train Vent | 3/4" NPT (D.B.&B & D.B.&B w/ POC Only) | | |

NOTES:

- SEE O&M FOR REQUIRED INSTALLATION CLEARANCES.
- 2. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
- DIMENSIONS ENCLOSED IN [] ARE IN MM.

| THERMAL [®] SOLUTIONS Innovolive Equipment for Hot Water Systems |
|---|
| PO BOX 3244 LANCASTER PA 17601 |

EVO-2000

INNOVATIVE EQUIPMENT FOR
HOT WATER SYSTEMS
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Updated: 8/5/2025

EVSUBM250802



Submittal Data Sheet

| RATINGS AND CAPACITIES | | | | | |
|------------------------|-----------------------|---------|--|--|--|
| Input (MBH): | 2,000,000 | BTU/HR | | | |
| Output (MBH): | 1,696,000 | BTU/HR | | | |
| Boiler Horsepower: | 50.7 | BTU/HR | | | |
| Thermal Efficiency: | 84.8% | BHP | | | |
| Heating Surface: | 352 | Sq.Ft. | | | |
| Water Content: | 18.5 | Gallons | | | |
| Fuel: | Natural Gas or LP Gas | | | | |
| Firing Rate: | Reliable Modulation | | | | |
| Burner Turndown: | 3:1 | | | | |
| Low NOx Emissions: | <10 ppm | | | | |
| | | | | | |

Inlet Gas Pressure (NG):
See Chart at right
Inlet Gas Pressure (LP):
See Chart at right

* This data supercedes data found on Table 3 of I&O Manual, per PRODUCT UPDATE issued June 6, 2024.

Shipping Weight, Approximate:

ASME Section IV (Max 160 PSIG / 250°F)

Setpoint range is 145-230°F

Adjustable, manual reset high limit setting of ≤ 240°F.

ASME H stamp MAWT is 250°F for the vessel. (For max setpoint, see Setpoint range.)

1,461

UL Certified to ANSI Z21.13 / CSA 4.9

UL Certified to UL 795 / CSA 3.1



lbs

| DIMENSIONS / CONNECTIONS | | | | | |
|--|----------------------|--------------|--|--|--|
| Height: | 91 7/8" | (Note 1) | | | |
| Width: | 28 3/8" | (Note 2) | | | |
| Length: | 30 3/8" | (Note 3) | | | |
| Supply Connection: | 3" | | | | |
| Return Connection: | 3" | | | | |
| Vent / Air Intake Connections: | 6" Vent | 8" Intake | | | |
| Condensate / Appliance Drain Connection: | 5/8" Condensate Tube | 1" NPT Drain | | | |
| Gas Connection: | 1 1/2" | | | | |

| NOTES: |
|---|
| 1. Height dimension is from floor to top of jacket. |
| 2. Length is from jacket front to jacket rear. |
| 3. Dimensions shown are for reference only |
| |

| FLOWS AND PRESSURE DROPS | | | | | |
|--------------------------|------------------|-------------|--|--|--|
| Delta T | Flow (GPM) | △P (Ft. Hd) | | | |
| 20°F△T | 170 (Max) | 13.27 | | | |
| 40°F△T | 85 (Min) | 3.32 | | | |

| Electrical Supply Options | | | | | |
|---------------------------|--------------------------|----------|--|--|--|
| | 120v/60hz/1ph (Standard) | 7.5 amps | | | |
| | 208v/60hz/1ph | 6.6 amps | | | |
| | 230v/60hz/1ph | 6.4 amps | | | |
| | 208v/60hz/3ph | 6.0 amps | | | |
| | 230v/60hz/3ph | 6.0 amps | | | |
| | 460v/60hz/3ph | 3.0 amps | | | |

| Blower Motor | (hp) |
|--------------|------|
| 1-1/2 | |

| Relief Valve Options | | | | | |
|----------------------|---------|--|---------|---|---------|
| | 30 psi | | 50 psi | | 60 psi |
| | 75 psk | | 100 psi | | 125 psi |
| | 150 psi | | | - | - |

| Inlet Gas Pressure | | | | | |
|--------------------|---------------------------------------|-----------|------------|--|--|
| SIZE | Nat. Gas Min. LP Min. ("w.c.) ("w.c.) | | Max | | |
| 500 | 5.0" w.c. | | | | |
| 750 | 7.0" w.c.* | 8.0" w.c. | | | |
| 1000 | 7.0" w.c.* | 0.0 w.c. | | | |
| 1500 | 7.0" w.c.* | | 14.0" w.c. | | |
| 2000 | 9.0" w.c.* | 9.0" w.c. | 14.0 W.C. | | |
| 2000s | 7.0" w.c. | | | | |
| 2500 | 6.0" w.c. | 8.0 | | | |
| 3000 | 6.0" w.c | | | | |

* NOTE: Optional natural gas train with 4" w.c. minumum inlet gas pressure ONLY AVAILABLE on sizes 750, 1000, 1500 & 2000.



Submittal Data Sheet

| STAN | | OPT | IONAL EQU | IPMENT | | | |
|--|--|---------------------|---|-----------------------|---------------------------|------------------|--|
| PRESSURE VESSEL DESIGN | BOILER EQUIPMENT | | Low gas pressure | e venturi, 4" wc (A' | VAILABLE ONL | Y on Models | |
| Copper Fin-tube construction | Siemens RWF55 operating control | 1 ' | 750-2000) [FACTORY INSTALLED OPTION ONLY] | | | | |
| Carbon steel or cast iron header design | High limit w/ manual reset safety temperature control | \mathbb{I}_{\neg} | Line Reactor Adds voltage / spike protection for the bl | | | | |
| Gasketless heat exchanger | Water flow switch | | VFD. (Highly recomn | nended for areas with | <u>n dirty voltage</u> .) | | |
| ASME Section IV certified "H" stamp | Low water cut-off with manual reset safety controller | | Honeywell 7800 |) Series display v | with ModBus | Module | |
| MAWP 160 PSI & max design temp 250°F | Outlet temperature sensor | 1 | Line Reactor Add | | | r the blower's | |
| 5-year heat exchanger warranty | Combustion air switch | | | mended for areas with | <u>n dirty voltage</u> .) | | |
| 20-year thermal shock warranty | Pressure and temperature gauge | | Outdoor Air Sen | | | | |
| | Safety relief valve (Optional pressuress 30 - 150 PSI; See details | | Condensate neu | | | | |
| <u>COMBUSTION DESIGN</u> | above.) | 1 | _ | ■ 850 MBH | | 1,200 MBH | |
| Maintenance-free ceramic burner | Single point electrical supply: (Available in: 1 and 3 phase | 1 | _ | ☐ 2,000 MBH | _ |) 5,000 MBH | |
| Ultr-low NOx emissions (<10ppm) | options. See details above.) | | Pump Kit (Boiler C based on a 20°F | Circulation Pump, | , Pump Flange | e Kit Sized | |
| Whisper quet operation (<50 dBA) | <u>BURNER EQUIPMENT</u> | ▋▔ | basea on a 20°F | Delia i | | | |
| Easy to service, 99% efficient industrial air filter | UL/FM/CSD-1 gas train | | Annual Mainter | nance Kit | | | |
| Industrial cast aluminum blower assembly | Reliable Turndown | | System Tempero | ature Sensor | | | |
| VFD Driven Blower | Natural or LP gas | \mathbb{I}_{-} | ModBus RS485 communication for Siemens RWF55 and | | | | |
| Reliable electric spark-to-pilot ignition | Pilot gas valve / Pilot gas regulator | ▮ | Honeywell Flam | ne Safeguard C | ontrol (Boiler | to BMS | |
| 10-year burner warranty | Siemens SKP-75 gas valve | | Universal comm | ns. gtwy (BACnet N | 4S/TP, BACnet/IP, | N2, Modbus TCP) | |
| Honeywell UV-Scanner | Low and high gas pressure switches with manual reset | | Local / remote | switch | | | |
| | | | Alarm bell with | silencing switch | 1 | | |
| <u>VENTING</u> | SIEMENS RWF55 OPERATING CONTROL FEATURES | | • | General Alarm | _ | Boiler Status | |
| Sealed or room air combustion | Adjustable set point | | Conductor Sequen without BMS. Conto | ncing Panel: Req. fo | | applications | |
| Direct vent (sidewall or vertical) (Cat IV) | Remote set point (0-10v or 4-20 mA) | | | | <u> </u> | | |
| Conventional venting (Cat II) | Outdoor air temperature reset | | Conductor Sequen condensing, small | | | | |
| Outdoor vent termination kit | | | ers (full modulation | | | | |
| NOTE: This is NOT a Cat 1 Vent appliance. | | | s improve system | | | | |
| | | | boiler to match o | | | | |
| IMPORTANT NOTE: For installation and opera | tion only in climates where the ambient temperature will not | | e point boiler plant Iding Modbus TCP/I | | | | |
| | protected from standing water. Install on a level platform. | 111010 | standard. If Lonw | | | | |
| Do not install this appliance under an ove | erhang less than 3 feet from its top. The area under the | gate | eway. | | | | |
| overhang must be open on 3 sides. Never ins | tall directly on carpeted flooring. | | | | | | |
| | | | Extended V | Warranty Opt | ions Avail | able: | |
| | | | | <u>3-Year</u> | <u>5-Year</u> | <u> 10 Year</u> | |
| | | | Parts Only | | | | |
| | | | Parts and Labor | N/A | | | |