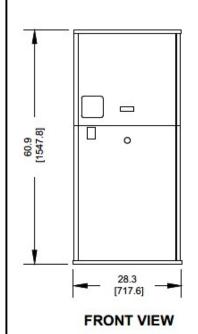
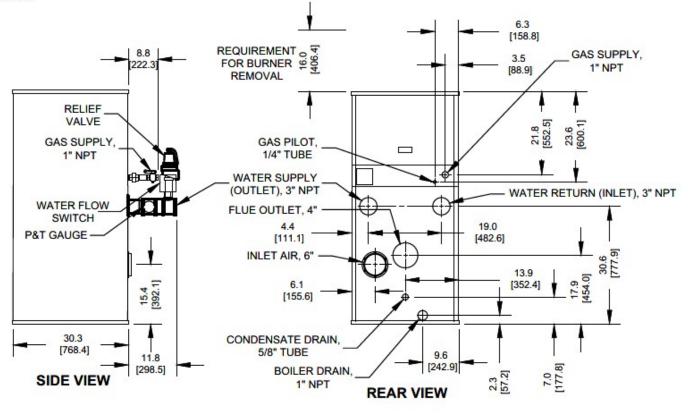


# Submittal Data Sheet

### NOTES:

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







EVA-750

INNOVATIVE EQUIPMENT FOR
HOT WATER SYSTEMS
WWW.THERMALSOLUTIONS.COM

Updated: 10/10/25

EVSUBM251001



# Submittal Data Sheet

RATINGS AND CAPACITIES				
Input (MBH):	750,000	BTU/HR		
Output (MBH):	638,000	BTU/HR		
Boiler Horsepower:	19.1	BTU/HR		
Thermal Efficiency:	85.1%	BHP		
Heating Surface:	131	Sq.Ft.		
Water Content:	15.9	Gallons		
Fuel:	Natural Gas or LP Gas			
Firing Rate:	Reliable Modulation			
Burner Turndown:	3:1			
Low NOx Emissions:	<10 ppm			

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

Shipping Weight, Approximate: 1,097

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.)

See Chart at right

See Chart at right

UL Certified to ANSI Z21.13 / CSA 4.9

UL Certified to UL 795 / CSA 3.1

Inlet Gas Pressure (NG): Inlet Gas Pressure (LP):



lbs

DIMENSIONS / CONNECTIONS					
Height:	60 15/16"	(Note 1)			
Width:	28 3/8"	(Note 2)			
Length:	30 3/8"	(Note 3)			
Supply Connection:	3"				
Return Connection:	3"				
Vent / Air Intake Connections:	4" Vent	6" Intake			
Condensate / Appliance Drain Connection:	5/8" Condensate Tube	1" NPT Drain			
Gas Connection:	1"				

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	<b>62</b> (Max)	1.81		
40°F△T	<b>31</b> (Min)	0.46		

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. ("w.c.)	LP Min. ("w.c.)	Max		
500	5.0" w.c.				
750	7.0" w.c.*	8.0" w.c.	14.0" w.c.		
1000	7.0" w.c.*	0.0 w.c.			
1500	7.0" 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				

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



### Submittal Data Sheet

### STANDARD EQUIPMENT **OPTIONAL EQUIPMENT** PRESSURE VESSEL DESIGN **BOILER EQUIPMENT** Low gas pressure venturi, 4" wc (AVAILABLE ONLY on Models 750-2000) [FACTORY INSTALLED OPTION ONLY] Siemens RWF55 operating control Copper Fin-tube construction Carbon steel or cast iron header design High limit w/ manual reset safety temperature control Line Reactor Adds voltage / spike protection for the blower's VFD. (Highly recommended for areas with dirty voltage.) Gasketless heat exchanger Water flow switch ASME Section IV certified "H" stamp Low water cut-off with manual reset safety controller Honeywell 7800 Series display with ModBus Module MAWP 160 PSI & max design temp 250°F Outlet temperature sensor Line Reactor Adds voltage / spike protection for the blower's VFD. (Highly recommended for areas with dirty voltage.) 5-year heat exchanger warranty Combustion air switch 20-year thermal shock warranty Pressure and temperature gauge Outdoor Air Sensor Safety relief valve (Optional pressuress 30 - 150 PSI; See details Condensate neutralizer: above.) **COMBUSTION DESIGN** ☐ 850 MBH ☐ 1,200 MBH Maintenance-free ceramic burner ☐ 2.000 MBH ☐ 5,000 MBH Single point electrical supply: (Available in: 1 and 3 phase options. See details above.) Pump Kit (Boiler Circulation Pump, Pump Flange Kit Sized Ultr-low NOx emissions (<10ppm) based on a 20°F Delta T **BURNER EQUIPMENT** Whisper quet operation (<50 dBA) Easy to service, 99% efficient industrial air filter UL/FM/CSD-1 gas train Annual Maintenance Kit Reliable Turndown System Temperature Sensor Industrial cast aluminum blower assembly VFD Driven Blower Natural or LP gas ModBus RS485 communication for Siemens RWF55 and Reliable electric spark-to-pilot ignition Pilot gas valve / Pilot gas regulator Honeywell Flame Safeauard Control (Boiler to BMS System) Siemens SKP-75 aas valve Universal comms. gtwy (BACnet MS/TP, BACnet/IP, N2, Modbus TCP) 10-vear burner warranty Honeywell UV-Scanner Low and high gas pressure switches with manual reset Local / remote switch $\Box$ Alarm bell with silencing switch **VENTING** SIEMENS RWF55 OPERATING CONTROL FEATURES $\Box$ Relays: General Alarm ■ Boiler Status Conductor Sequencing Panel: Reg. for multiple EVA applications Sealed or room air combustion Adjustable set point without BMS. Contact your RSM with Questions.) Direct vent (sidewall or vertical) (Cat IV) Remote set point (0-10v or 4-20 mA) The Conductor Sequencing Panel manages multiple condensing & Outdoor air temperature reset Conventional venting (Cat II) non-condensing, small & large heat output, new and/or existing NOTE: This is NOT a Cat 1 Vent appliance. boilers (full modulation), and steam or hot water applications. It helps improve system efficiency by selecting and modulating the right boiler to match operating conditions. The Conductor offers a single point boiler plant Energy Management System (EMS) interface including Modbus TCP/IP, Modbus RTU RS485, BACnet/IP and BACnet MSTP standard. If Lonworks needed, add for the separate Lonworks aatewav. **Extended Warranty Options Available:** 3-Year 5-Year 10 Year Parts Only Parts and Labor $\Box$ $\Box$ N/A