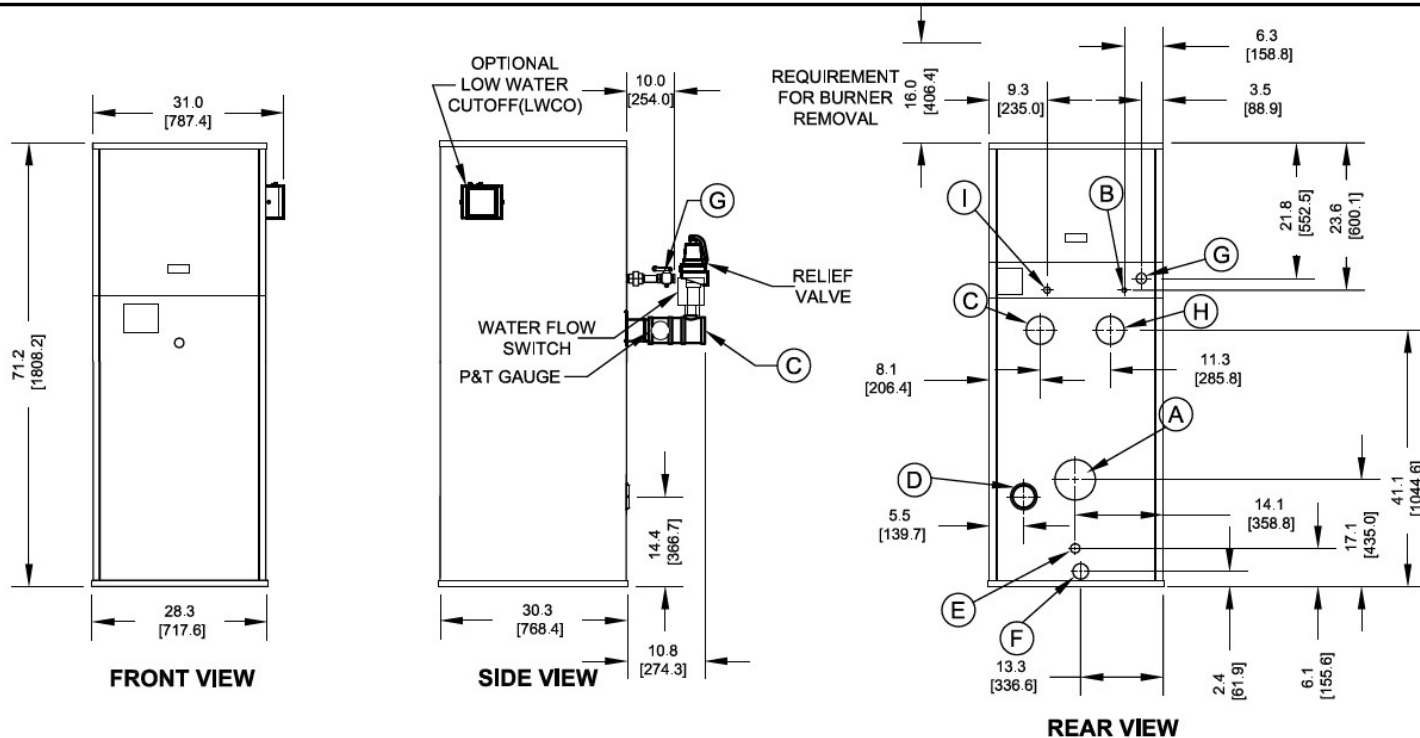


# Submittal Data Sheet



KEY	DESCRIPTION	
A	Flue Outlet	4" [101.6] Diameter (AL29-4C SS)
B	Factory Installed Pilot Gas Li	1/4" [6/4] O.D. Tube
C	Water Supply to System	2" NPT
D	Inlet Air	4" [101.6] Diameter
E	Drain, Startup Condensate	5/8" [15.9] O.D. Tube SS
F	Appliance Drain	1" NPT
G	Gas Supply	1" NPT
H	Water Return from System	2" NPT
I	Optional Gas Train Vent	3/4" NPT (D.B.&B & D.B.&B w/ POC Only)

**NOTES:**

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

# Submittal Data Sheet

## RATINGS AND CAPACITIES

Input (MBH):	<b>500,000</b>	BTU/HR
Output (MBH):	<b>431,000</b>	BTU/HR
Boiler Horsepower:	<b>12.9</b>	BTU/HR
Thermal Efficiency:	<b>86.2%</b>	BHP
Heating Surface:	<b>123</b>	Sq.Ft.
Water Content:	<b>6.1</b>	Gallons
Fuel:	<b>Natural Gas or LP Gas</b>	
Firing Rate:	<b>Reliable Modulation</b>	
Burner Turndown:	<b>3:1</b>	
Low NOx Emissions:	<b>&lt;10 ppm</b>	
Inlet Gas Pressure (NG):	<b>See Chart at right</b>	
Inlet Gas Pressure (LP):	<b>See Chart at right</b>	

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

Shipping Weight, Approximate: **772** lbs

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.)

UL Certified to ANSI Z21.13 / CSA 4.9

UL Certified to UL 795 / CSA 3.1



## DIMENSIONS / CONNECTIONS

Height:	<b>71 1/4"</b>	(Note 1)
Width:	<b>28 3/8"</b>	(Note 2)
Length:	<b>30 3/8"</b>	(Note 3)
Supply Connection:	<b>2" NPT</b>	
Return Connection:	<b>2" NPT</b>	
Vent / Air Intake Connections:	<b>4" Vent</b>	<b>4" Intake</b>
Condensate / Appliance Drain Connection:	<b>5/8" Condensate Tube</b>	<b>1" NPT Drain</b>
Gas Connection:	<b>1"</b>	

### 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)	ΔP (Ft. Hd)
20°F ΔT	<b>43 (Max)</b>	<b>2.93</b>
40°F ΔT	<b>22 (Min)</b>	<b>0.74</b>

## Electrical Supply Options

<input type="checkbox"/>	120v/60hz/1ph (Standard)	4.5 amps
<input type="checkbox"/>	208v/60hz/1ph	3.5 amps
<input type="checkbox"/>	230v/60hz/1ph	3.4 amps
<input type="checkbox"/>	208v/60hz/3ph	3.0 amps
<input type="checkbox"/>	230v/60hz/3ph	2.9 amps
<input type="checkbox"/>	460v/60hz/3ph	1.5 amps

## Blower Motor (hp)

1/2

## Relief Valve Options

<input type="checkbox"/>	30 psi	<input type="checkbox"/>	50 psi	<input type="checkbox"/>	60 psi
<input type="checkbox"/>	75 psk	<input type="checkbox"/>	100 psi	<input type="checkbox"/>	125 psi
<input type="checkbox"/>	150 psi				

## Inlet Gas Pressure

SIZE	Nat. Gas Min. ("w.c.)	LP Min. ("w.c.)	Max
500	5.0" w.c.	8.0" w.c.	14.0" w.c.
750	7.0" w.c.*		
1000	7.0" w.c.*		
1500	7.0" w.c.*		
2000	9.0" w.c.*	9.0" w.c.	
2000s	7.0" w.c.	8.0	
2500	6.0" w.c.		
3000	6.0" w.c.		

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

# Submittal Data Sheet

STANDARD EQUIPMENT		OPTIONAL EQUIPMENT												
<b>PRESSURE VESSEL DESIGN</b> Copper Fin-tube construction Carbon steel or cast iron header design Gasketless heat exchanger ASME Section IV certified "H" stamp MAWP 160 PSI & max design temp 250°F 5-year heat exchanger warranty 20-year thermal shock warranty	<b>BOILER EQUIPMENT</b> Siemens RWF55 operating control High limit w/ manual reset safety temperature control Water flow switch Low water cut-off with manual reset safety controller Outlet temperature sensor Combustion air switch Pressure and temperature gauge Safety relief valve (Optional pressure 30 - 150 PSI; See details above.) Single point electrical supply: (Available in: 1 and 3 phase options. See details above.)	Low gas pressure venturi, 4" wc [AVAILABLE ONLY on Models 750-2000] [FACTORY INSTALLED OPTION ONLY] <input type="checkbox"/> Line Reactor Adds voltage / spike protection for the blower's VFD. ( <i>Highly recommended for areas with dirty voltage.</i> ) <input type="checkbox"/> Honeywell 7800 Series display with ModBus Module Line Reactor Adds voltage / spike protection for the blower's VFD. ( <i>Highly recommended for areas with dirty voltage.</i> ) <input type="checkbox"/> Outdoor Air Sensor <input type="checkbox"/> Condensate neutralizer: <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> 850 MBH           <input type="checkbox"/> 1,200 MBH         </div> <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> 2,000 MBH           <input type="checkbox"/> 5,000 MBH         </div> <input type="checkbox"/> Pump Kit (Boiler Circulation Pump, Pump Flange Kit Sized based on a 20°F Delta T) <input type="checkbox"/> Annual Maintenance Kit <input type="checkbox"/> System Temperature Sensor <input type="checkbox"/> ModBus RS485 communication for Siemens RWF55 and Honeywell Flame Safeguard Control (Boiler to BMS System) <input type="checkbox"/> Universal comms. gateway (BACnet MS/TP, BACnet/IP, N2, Modbus TCP ) <input type="checkbox"/> Local / remote switch <input type="checkbox"/> Alarm bell with silencing switch <input type="checkbox"/> Relays: <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> General Alarm           <input type="checkbox"/> Boiler Status         </div> <input type="checkbox"/> Conductor Sequencing Panel: Req. for multiple EVA applications without BMS. <input type="checkbox"/> Contact your RSM with Questions.)												
<b>COMBUSTION DESIGN</b> Maintenance-free ceramic burner Ultr-low NOx emissions (<10ppm) Whisper quiet operation (<50 dBA) Easy to service, 99% efficient industrial air filter Industrial cast aluminum blower assembly VFD Driven Blower Reliable electric spark-to-pilot ignition 10-year burner warranty Honeywell UV-Scanner	<b>BURNER EQUIPMENT</b> UL/FM/CSD-1 gas train Reliable Turndown Natural or LP gas Pilot gas valve / Pilot gas regulator Siemens SKP-75 gas valve Low and high gas pressure switches with manual reset													
<b>VENTING</b> Sealed or room air combustion Direct vent (sidewall or vertical) (Cat IV) Conventional venting (Cat II) Outdoor vent termination kit NOTE: This is NOT a Cat 1 Vent appliance.	<b>SIEMENS RWF55 OPERATING CONTROL FEATURES</b> Adjustable set point Remote set point (0-10v or 4-20 mA) Outdoor air temperature reset													
<b>IMPORTANT NOTE:</b> For installation and operation only in climates where the ambient temperature will not be less than 32 °F (0 °C). Appliance must be protected from standing water. Install on a level platform. Do not install this appliance under an overhang less than 3 feet from its top. The area under the overhang must be open on 3 sides. Never install directly on carpeted flooring.														
		<b>Extended Warranty Options Available:</b> <table border="1"> <thead> <tr> <th></th> <th>3-Year</th> <th>5-Year</th> <th>10 Year</th> </tr> </thead> <tbody> <tr> <td><u>Parts Only</u></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><u>Parts and Labor</u></td> <td>N/A</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>		3-Year	5-Year	10 Year	<u>Parts Only</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Parts and Labor</u>	N/A	<input type="checkbox"/>	<input type="checkbox"/>
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