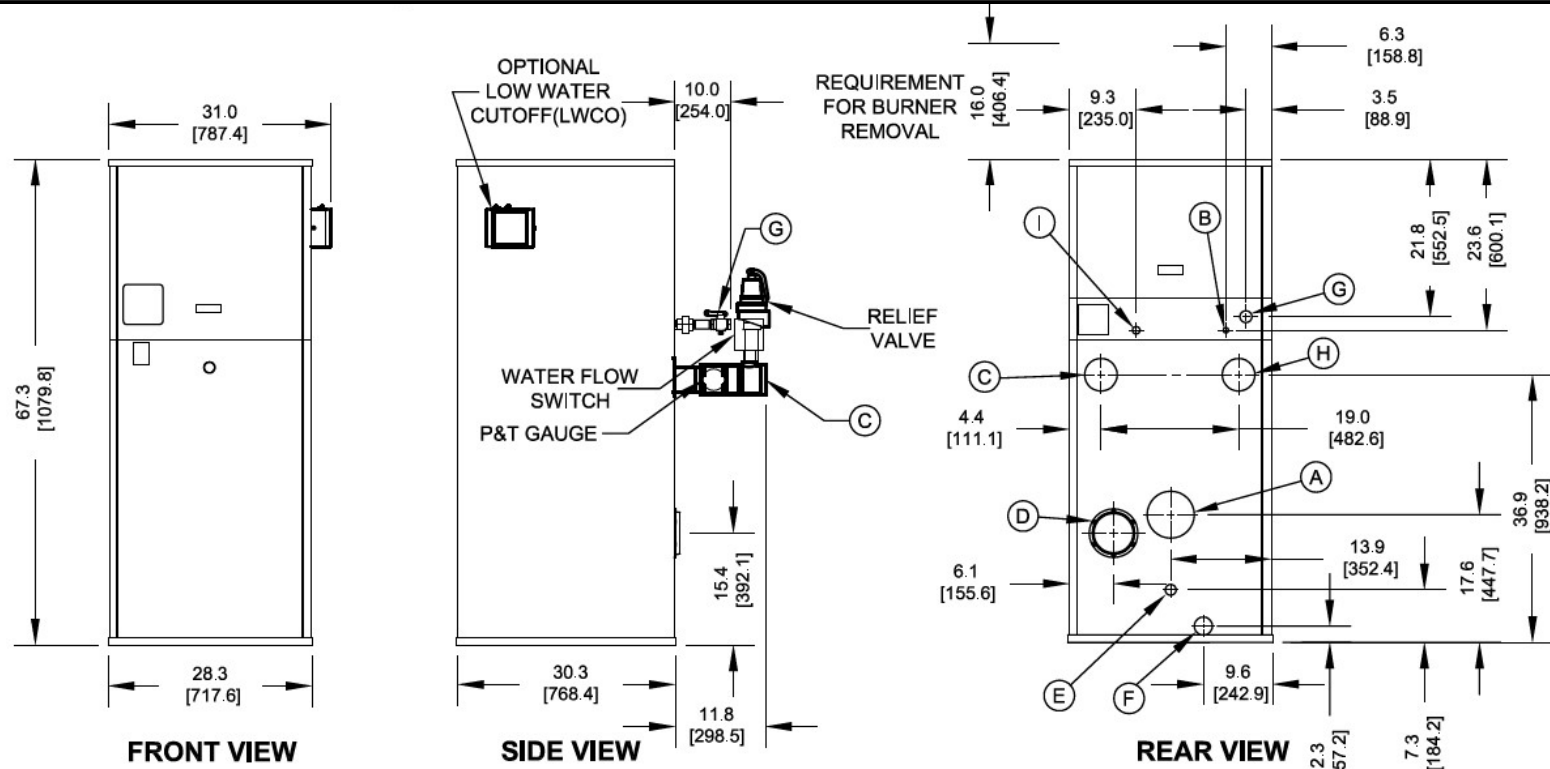


# Submittal Data Sheet



KEY	DESCRIPTION	
A	Flue Outlet	6" [152.4] Diameter (AL29-4C SS)
B	Factory Installed Pilot Gas Lin	1/4" [6/4] O.D. Tube
C	Water Supply to System	3" NPT
D	Inlet Air	6" [152.4] 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
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>1,000,000</b>	BTU/HR
Output (MBH):	<b>880,000</b>	BTU/HR
Boiler Horsepower:	<b>26.3</b>	BTU/HR
Thermal Efficiency:	<b>88.0%</b>	BHP
Heating Surface:	<b>175</b>	Sq.Ft.
Water Content:	<b>16.4</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: **1,185** lbs

ASME Section IV (Max 160 PSIG / 210°F)

Setpoint range is 145-190°F

Adjustable, manual reset high limit setting of ≤ 200°F.

ASME HLW stamp MAWT is 210°F for the vessel. (For max setpoint, see Setpoint range.)

UL Certified to ANSI Z21.10.3/CSA 4.3



## DIMENSIONS / CONNECTIONS

Height:	<b>67 1/8"</b>	(Note 1)
Width:	<b>28 3/8"</b>	(Note 2)
Length:	<b>30 3/8"</b>	(Note 3)
Supply Connection:	<b>3"</b>	
Return Connection:	<b>3"</b>	
Vent / Air Intake Connections:	<b>6" Vent</b>	<b>6" Intake</b>
Condensate / Appliance Drain Connection:	<b>5/8" Condensate Tube</b>	<b>1" NPT Drain</b>
Gas Connection:	<b>1 1/2"</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°FΔT	<b>82 (Max)</b>	<b>3.24</b>
40°FΔT	<b>41 (Min)</b>	<b>0.81</b>

## Electrical Supply Options

<input type="checkbox"/>	120v/60hz/1ph (Standard)	7.5 amps
<input type="checkbox"/>	208v/60hz/1ph	6.6 amps
<input type="checkbox"/>	230v/60hz/1ph	6.4 amps
<input type="checkbox"/>	208v/60hz/3ph	6.0 amps
<input type="checkbox"/>	230v/60hz/3ph	6.0 amps
<input type="checkbox"/>	460v/60hz/3ph	3.0 amps

## Blower Motor (hp)

1-1/2

## Relief Valve Options

<input type="checkbox"/>	125 psi (STANDARD)
<input type="checkbox"/>	150 psi (OPTIONAL)

## 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												
<div style="background-color: #cccccc; text-align: center; font-weight: bold; padding: 2px;">PRESSURE VESSEL DESIGN</div> <p>Copper Fin-tube construction Bronze header design Gasketless heat exchanger ASME Section IV certified "H" stamp MAWP 160 PSI &amp; max design temp 250°F 5-year heat exchanger warranty 20-year thermal shock warranty</p>	<div style="background-color: #cccccc; text-align: center; font-weight: bold; padding: 2px;">BOILER EQUIPMENT</div> <p>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.)</p>	<div style="background-color: #cccccc; text-align: center; font-weight: bold; padding: 2px;">BURNER EQUIPMENT</div> <p>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</p>												
<div style="background-color: #cccccc; text-align: center; font-weight: bold; padding: 2px;">COMBUSTION DESIGN</div> <p>Maintenance-free ceramic burner Ultr-low NOx emissions (&lt;10ppm) Whisper quiet operation (&lt;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</p>	<div style="background-color: #cccccc; text-align: center; font-weight: bold; padding: 2px;">SIEMENS RWF55 OPERATING CONTROL FEATURES</div> <p>Adjustable set point Remote set point (0-10v or 4-20 mA) Outdoor air temperature reset</p>	<div style="background-color: #cccccc; text-align: center; font-weight: bold; padding: 2px;">OPTIONAL EQUIPMENT</div> <p><input type="checkbox"/> Low gas pressure venturi, 4" wc (AVAILABLE ONLY on Models 750-2000) [FACTORY INSTALLED OPTION ONLY]</p> <p><input type="checkbox"/> Line Reactor Adds voltage / spike protection for the blower's VFD. (<i>Highly recommended for areas with dirty voltage.</i>)</p> <p><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>)</p> <p><input type="checkbox"/> Outdoor Air Sensor</p> <p><input type="checkbox"/> Condensate neutralizer:</p> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> 850 MBH</span> <span><input type="checkbox"/> 1,200 MBH</span> </div> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> 2,000 MBH</span> <span><input type="checkbox"/> 5,000 MBH</span> </div> <p><input type="checkbox"/> Pump Kit (Boiler Circulation Pump, Pump Flange Kit Sized based on a 20°F Delta T)</p> <p><input type="checkbox"/> Annual Maintenance Kit</p> <p><input type="checkbox"/> System Temperature Sensor</p> <p><input type="checkbox"/> ModBus RS485 communication for Siemens RWF55 and Honeywell Flame Safeguard Control (Boiler to BMS)</p> <p><input type="checkbox"/> Universal comms. gateway (BACnet MS/IP, BACnet/IP, N2, Modbus TCP )</p> <p><input type="checkbox"/> Local / remote switch</p> <p><input type="checkbox"/> Alarm bell with silencing switch</p> <p><input type="checkbox"/> Relays:      <input type="checkbox"/> General Alarm      <input type="checkbox"/> Boiler Status</p> <p><input type="checkbox"/> Conductor Sequencing Panel: Req. for multiple EVA applications without BMS. Contact your RSM with Questions.)</p> <p>The Conductor Sequencing Panel manages multiple condensing &amp; non-condensing, small &amp; large heat output, new and/or existing 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 gateway.</p>												
<div style="background-color: #cccccc; text-align: center; font-weight: bold; padding: 2px;">VENTING</div> <p>Sealed or room air combustion Direct vent (sidewall or vertical) (Cat IV) Conventional venting (Cat II) <i>NOTE: This is NOT a Cat 1 Vent appliance.</i></p>		<div style="background-color: #cccccc; text-align: center; font-weight: bold; padding: 2px;">Extended Warranty Options Available:</div> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center; font-weight: bold;">3-Year</th> <th style="text-align: center; font-weight: bold;">5-Year</th> <th style="text-align: center; font-weight: bold;">10 Year</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><u>Parts Only</u></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><u>Parts and Labor</u></td> <td style="text-align: center;">N/A</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><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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