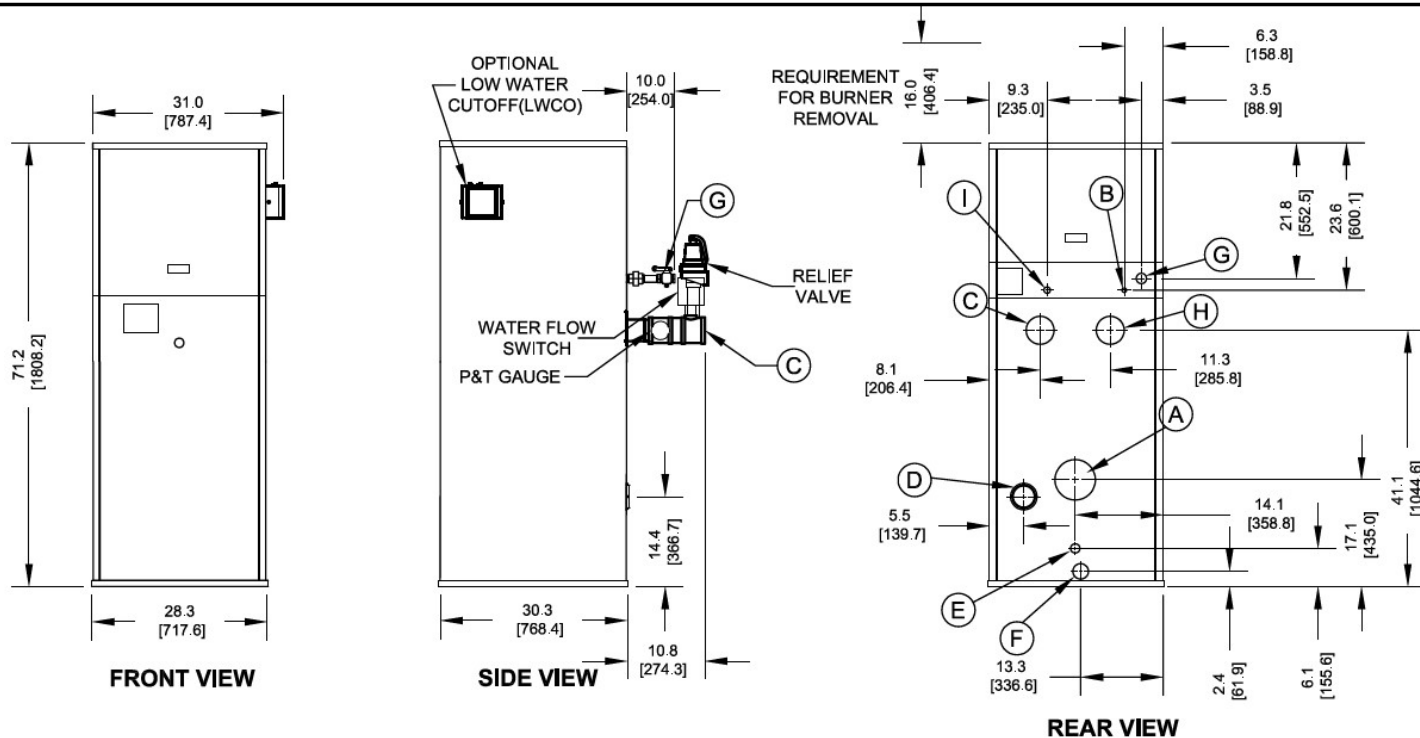


Submittal Data Sheet



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):	500,000	BTU/HR
Output (MBH):	431,000	BTU/HR
Boiler Horsepower:	12.9	BTU/HR
Thermal Efficiency:	86.2%	BHP
Heating Surface:	123	Sq.Ft.
Water Content:	6.1	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: **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:	71 1/4"	(Note 1)
Width:	28 3/8"	(Note 2)
Length:	30 3/8"	(Note 3)
Supply Connection:	2" NPT	
Return Connection:	2" NPT	
Vent / Air Intake Connections:	4" Vent	4" 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)	ΔP (Ft. Hd)
20°F ΔT	43 (Max)	2.93
40°F ΔT	22 (Min)	0.74

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 psi	<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													
<div style="background-color: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>PRESSURE VESSEL DESIGN</u></div> <p>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</p>	<div style="background-color: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>BOILER EQUIPMENT</u></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: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>OPTIONAL EQUIPMENT</u></div> <p>Low gas pressure venturi, 4" wc (AVAILABLE ONLY on Models 750-2000) (FACTORY INSTALLED OPTION ONLY)</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <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</p> <p>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; width: 100%;"> <div> <input type="checkbox"/> 850 MBH <input type="checkbox"/> 2,000 MBH </div> <div> <input type="checkbox"/> 1,200 MBH <input type="checkbox"/> 5,000 MBH </div> </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</p> <p><input type="checkbox"/> Flame Safeguard Control (Boiler to BMS System)</p> <p><input type="checkbox"/> Universal comms. gateway (BACnet MS/TP, 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.</p> <p><input type="checkbox"/> Contact your RSM with Questions.)</p> </div> <div style="width: 48%;"> <p><input type="checkbox"/> 1,200 MBH <input type="checkbox"/> 5,000 MBH</p> </div> </div> <p>The Conductor Sequencing Panel manages multiple condensing & non-condensing, small & 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: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>COMBUSTION DESIGN</u></div> <p>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</p>	<div style="background-color: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>BURNER EQUIPMENT</u></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: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>Extended Warranty Options Available:</u></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>3-Year</u></th> <th style="text-align: center;"><u>5-Year</u></th> <th style="text-align: center;"><u>10 Year</u></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>			<u>3-Year</u>	<u>5-Year</u>	<u>10 Year</u>	<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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<div style="background-color: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>VENTING</u></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 I Vent appliance.</i></p>	<div style="background-color: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>SIEMENS RWF55 OPERATING CONTROL FEATURES</u></div> <p>Adjustable set point Remote set point (0-10v or 4-20 mA) Outdoor air temperature reset Remote system temperature monitoring</p>	<div style="background-color: #f2f2f2; text-align: center; padding: 2px; margin-bottom: 5px;"><u>OPTIONAL EQUIPMENT</u></div> <p>Low gas pressure venturi, 4" wc (AVAILABLE ONLY on Models 750-2000) (FACTORY INSTALLED OPTION ONLY)</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <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</p> <p>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; width: 100%;"> <div> <input type="checkbox"/> 850 MBH <input type="checkbox"/> 2,000 MBH </div> <div> <input type="checkbox"/> 1,200 MBH <input type="checkbox"/> 5,000 MBH </div> </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</p> <p><input type="checkbox"/> Flame Safeguard Control (Boiler to BMS System)</p> <p><input type="checkbox"/> Universal comms. gateway (BACnet MS/TP, 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.</p> <p><input type="checkbox"/> Contact your RSM with Questions.)</p> </div> <div style="width: 48%;"> <p><input type="checkbox"/> 1,200 MBH <input type="checkbox"/> 5,000 MBH</p> </div> </div> <p>The Conductor Sequencing Panel manages multiple condensing & non-condensing, small & 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>													