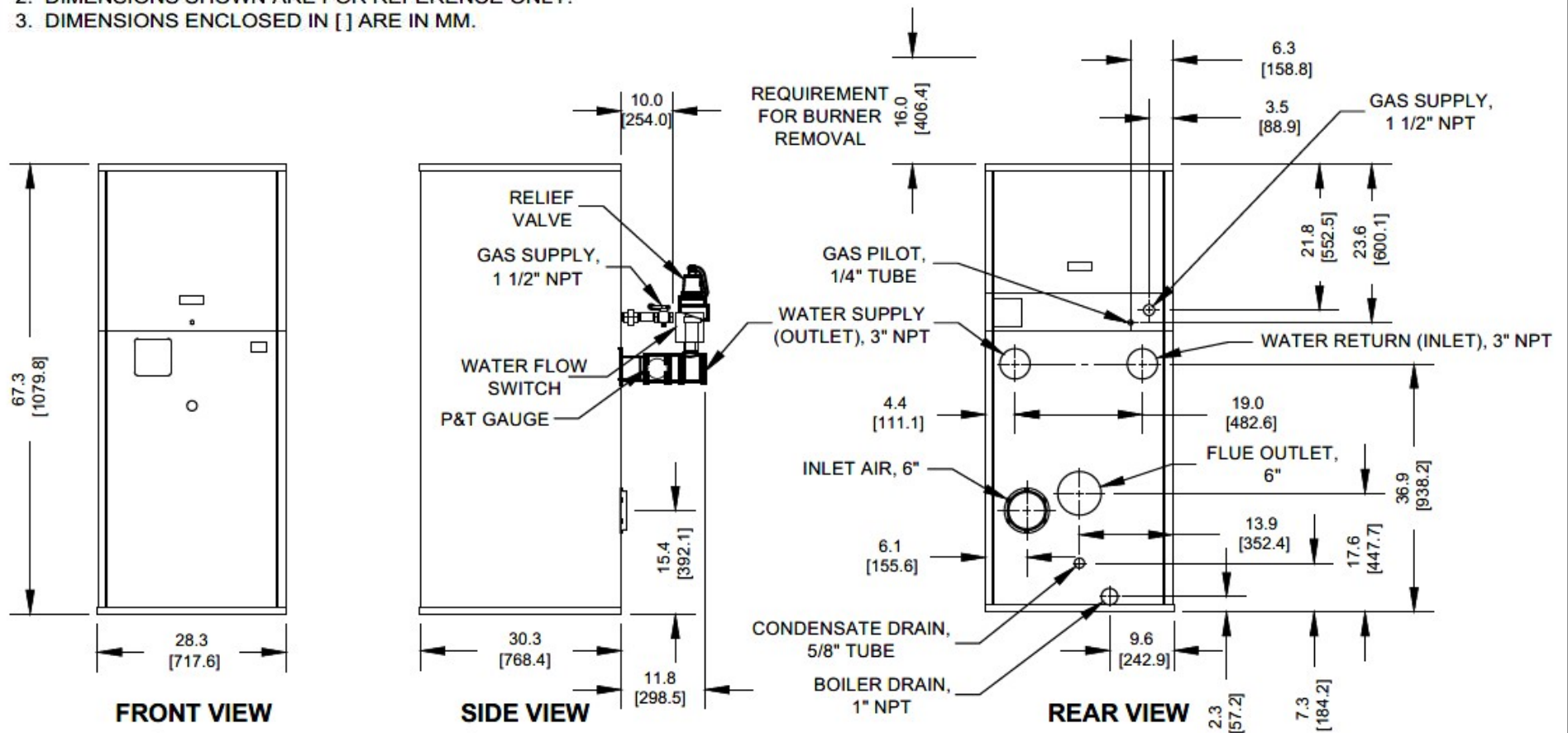


**NOTES:**

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 3/8"</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°F ΔT | <b>82 (Max)</b> | <b>3.24</b> |
| 40°F ΔT | <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.<br>("w.c.) | LP Min.<br>("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; margin-bottom: 5px;">PRESSURE VESSEL DESIGN</div> <p>Copper Fin-tube construction<br/>Bronze header design<br/>Gasketless heat exchanger<br/>ASME Section IV certified "H" stamp<br/>MAWP 160 PSI &amp; max design temp 250°F<br/>5-year heat exchanger warranty<br/>20-year thermal shock warranty</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div style="background-color: #cccccc; text-align: center; font-weight: bold; margin-bottom: 5px;">BOILER EQUIPMENT</div> <p>Siemens RWF55 operating control<br/>High limit w/ manual reset safety temperature control<br/>Water flow switch<br/>Low water cut-off with manual reset safety controller<br/>Outlet temperature sensor<br/>Combustion air switch<br/>Pressure and temperature gauge<br/>Safety relief valve (Optional pressure 30 - 150 PSI; See details above.)<br/>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; margin-bottom: 5px;">BURNER EQUIPMENT</div> <p>UL/FM/CSD-1 gas train<br/>Reliable Turndown<br/>Natural or LP gas<br/>Pilot gas valve / Pilot gas regulator<br/>Siemens SKP-75 gas valve<br/>Low and high gas pressure switches with manual reset</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |               |                |                   |                          |                          |                          |                        |     |                          |                          |  |  |
| <div style="background-color: #cccccc; text-align: center; font-weight: bold; margin-bottom: 5px;">COMBUSTION DESIGN</div> <p>Maintenance-free ceramic burner<br/>Ultra-low NOx emissions (&lt;10ppm)<br/>Whisper quiet operation (&lt;50 dBA)<br/>Easy to service, 99% efficient industrial air filter<br/>Industrial cast aluminum blower assembly<br/>VFD Driven Blower<br/>Reliable electric spark-to-pilot ignition<br/>10-year burner warranty<br/>Honeywell UV-Scanner</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <div style="background-color: #cccccc; text-align: center; font-weight: bold; margin-bottom: 5px;">SIEMENS RWF55 OPERATING CONTROL FEATURES</div> <p>Adjustable set point<br/>Remote set point (0-10v or 4-20 mA)<br/>Outdoor air temperature reset</p>                                                                                                                                                                                                                                                                                                                          | <div style="background-color: #cccccc; text-align: center; font-weight: bold; margin-bottom: 5px;">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<br/>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;"> <div><input type="checkbox"/> 850 MBH</div> <div><input type="checkbox"/> 1,200 MBH</div> </div> <div style="display: flex; justify-content: space-between;"> <div><input type="checkbox"/> 2,000 MBH</div> <div><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 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. 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; margin-bottom: 5px;">VENTING</div> <p>Sealed or room air combustion<br/>Direct vent (sidewall or vertical) (Cat IV)<br/>Conventional venting (Cat II)<br/><i>NOTE: This is NOT a Cat 1 Vent appliance.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <div style="background-color: #cccccc; text-align: center; font-weight: bold; margin-bottom: 5px;">IMPORTANT NOTE: 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.</div>                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |               |                |                   |                          |                          |                          |                        |     |                          |                          |  |  |
| <div style="background-color: #cccccc; text-align: center; font-weight: bold; margin-bottom: 5px;">Extended Warranty Options Available:</div> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>3-Year</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>5-Year</u></th> <th style="text-align: center; border-bottom: 1px solid black;"><u>10 Year</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: left;"><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: left;"><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"/> |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <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"/> |               |                |                   |                          |                          |                          |                        |     |                          |                          |  |  |