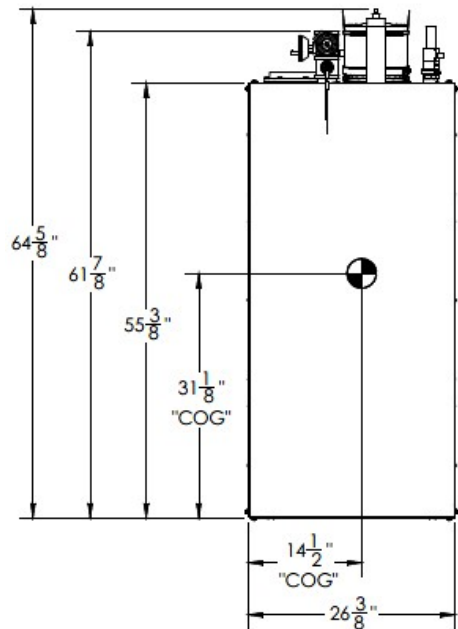
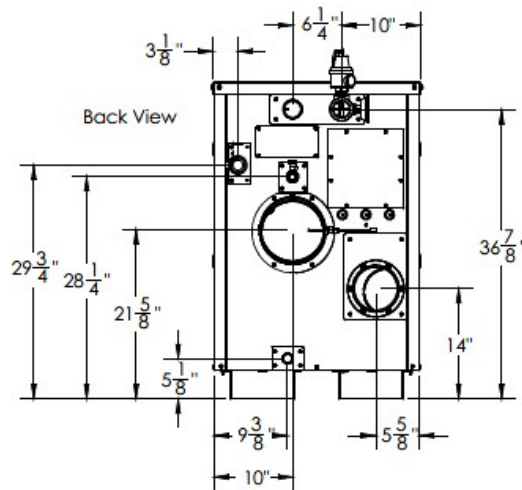




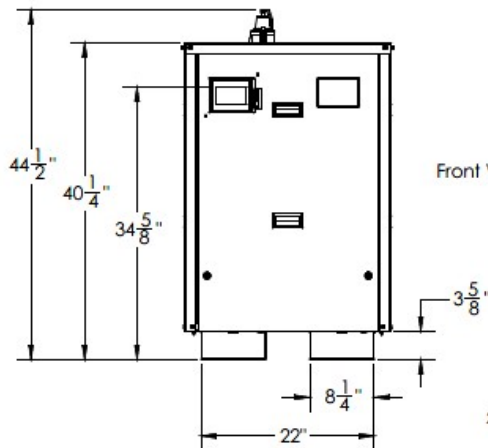
Boiler SUBMITTAL DATA SHEET



Top View

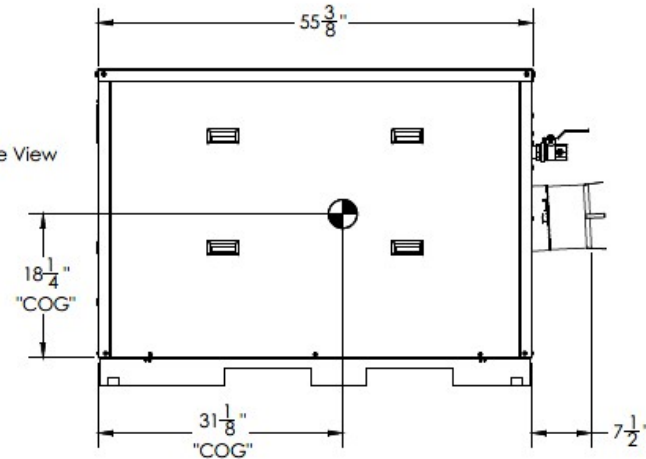


Back View



Front View

Right Side View



2 Appliances can be stacked vertically with included bracket kit



PO BOX 3244 | LANCASTER, PA 17601

AMP-1250 C

Appliance Certified for use as Boiler or DHW

INNOVATIVE EQUIPMENT FOR
HOT WATER SYSTEMS




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Updated 12/10/2025

ABC-251201



Boiler SUBMITTAL DATA SHEET

RATINGS AND CAPACITIES		
Input - Low fire:	125,000	BTU/HR
Input - High Fire:	1,250,000	BTU/HR
Output - High Fire:	1,212,000	BTU/HR
Boiler Horsepower:	36	BHP
Recovery Rate:	1,485	GPH
Thermal / Combustion Efficiency %:	97	
Heating Surface:	99	Sq.Ft.
Water Vol. (gal):	11	Gallons
Fuel:	Natural Gas ONLY	
Firing Rate:	Full Modulation	
Burner Turndown:	10:1	
Low NOx Emissions:	<20 ppm	
Inlet Gas Pressure (NG):	4" (Min.) / 14" (Max.)	
Inlet Gas Pressure (LP):	Natural Gas ONLY	
Approx. Shipping Weight (lb):	770	lbs.
ASME Section IV (Max 160 PSIG / 210°F) Setpoint range is 60-185°F Adjustable, manual reset high limit setting of ≤ 200°F. ASME H stamp MAWT is 210°F for the vessel. (For max setpoint, see Setpoint range.) ETL Certified to ANSI Z21.13 / CSA 4.9 & ANSI Z21.10.3 / CSA/4.3 ETL Certified to UL 795 / CSA 3.1 & NSF / ANSI Standard 372		
  		
DIMENSIONS / CONNECTIONS		
Height:	40 1/4	(Note 1)
Width:	26 3/8	(Note 2)
Length:	55 3/8	(Note 3)
Water Outlet Pipe (FNPT):	2	
Water Inlet Pipe (MNPT):	2	
Vent Connection:	8	
Air Intake Connection:	6	
Condensate Drain (PVC):	1	
Drain Line Connection:	3/4	
Gas Inlet Connection (FPT):	1-1/4	

FLOWS AND PRESSURE DROPS		
Delta T	Flow (GPM)	Head Loss (ft)
20°	121	24.5
30°	81	11.5
40°	61	6.7

Electrical Requirements: (Appliance Only)				
Model	Voltage	Phase	Hz	Max. Amp Draw
400	120	1	60	7
500				7
650				8
800				8
1000				8
1250-1500				10

BOILER ALTERNATIVE RELIEF VALVE KITS (75 PSI STD.)			
<input type="checkbox"/>	30 PSI	<input type="checkbox"/>	100 PSI
<input type="checkbox"/>	50 PSI	<input type="checkbox"/>	125 PSI
<input type="checkbox"/>	60 PSI	<input type="checkbox"/>	150 PSI

Water Heater T&P Relief Valve Kits		
<input type="checkbox"/>	125 PSI	
<input type="checkbox"/>	150 PSI	

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
4. Refer to manual for gas supply piping charts



Boiler SUBMITTAL DATA SHEET

STANDARD EQUIPMENT

PRESSURE VESSEL DESIGN

Stainless Steel Heat Exchanger

ASME Section IV Certified, "H" Stamp

MAWP 160 PSIG & Max Temp 210°F

Setpoint range is 60-185°F

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

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

Ten Year Limited Pressure Vessel Warranty

COMBUSTION DESIGN

Stainless Steel Pre-Mix Burner

Low NOx Emissions (< 20 ppm)

Full Modulation, 10:1 Turndown

Natural Gas ONLY

4-14" wc inlet natural gas pressure

Direct Spark Ignition System

High/Low gas pressure switches, manual reset

Variable Speed Combustion Blower

Blocked Vent Switch

VENTING

Category II or IV Venting

Individual or Common (Engineered) Vent System

Vertical or Horizontal

8" Stainless Steel Vent Connection

NOTE: Optional 8" PVC Vent adapter, PN# 113404-01 available.

Direct Vent & Sealed or Room Air or Outdoor Ready

Outdoor installations require the optional outdoor exhaust vent kit

APPLIANCE EQUIPMENT

Indoor / Outdoor Construction (Field Convertible)

Stainless steel water piping suitable for boiler or domestic (potable) water applications

Concert™ Control (24 Vac)

High Limit Temp Control, Manual Reset

Low water cutoff, manual reset

Water Flow Switch

Supply & Return Water Temperature Sensors

Flue Gas Temperature Sensor

Condensate trap

Blocked Condensate Switch

Pressure & Temperature Gauge

ASME 75 PSI Relief Valve Standard (Available 30, 50, 60, 100, 125 or 150 psig)

NOTE: Stacking Brace Kit (PN# 111405-00 included with all 400-1500 models. Kit includes 2 braces & 8 self-drilling screws.

NOTE: For stacking outdoor boilers, consult factory

ELECTRICAL DESIGN

Models 400-500

-120 VAC Only

AMP Draw: 7.0 Amps

Models 650-1000

-120 VAC Only

AMP Draw: 8.0 Amps

Models 1250-1500:

-120 VAC Only

AMP Draw: 10.0 Amps

24VAC/5VDC - Low Voltage PCB

- EMS Communications

(Dual RJ45 Jacks for Peer-To-Peer or Modbus)

- Boiler Options (Sensors)

- Pumps (Boiler, DHW, System) & Auxiliary Devices

* Flue system material shall be capable of continuous operation at 210°F or higher and shall be certified to UL 1738 – venting system for gas-burning appliances cat II, III and IV.



Boiler SUBMITTAL DATA SHEET

OPTIONAL EQUIPMENT

- | | | |
|--|---|--|
| <input type="checkbox"/> Hydronic Kit (Boiler Circulation Pump, Pump Flange Kit and Condensate Neutralizer) | | |
| <input type="checkbox"/> Water Heater Pump (Circulation Pump & Pump Flange Kit) | <input type="checkbox"/> 4-12 GPG Water Hardness | <input type="checkbox"/> 12-15 GPG Water Hardness |
| <input type="checkbox"/> External High Limit Temperature Control, Manual Reset | | |
| <input type="checkbox"/> Condensate Neutralizer | | |
| <input type="checkbox"/> Supply Header Temperature Sensor: | <input type="checkbox"/> Direct Immersion | <input type="checkbox"/> Well Immersion (with Well) |
| <input type="checkbox"/> Outdoor Air Temperature Sensor (Wired) | | |
| <input type="checkbox"/> Domestic Hot Water Sensor with Well Kit | | |
| <input type="checkbox"/> EMS Signal Converter Kit (Converts Energy or Building Management System 0-10v signal to 4-20mA) | | |
| <input type="checkbox"/> Alarm Buzzer with Silencing Switch | | |
| <input type="checkbox"/> CPVC Adapter Kit, 8" (1250 & 1500) PN#112308-01 | | |
| <input type="checkbox"/> PVC /CPVC Vent Kit | <input type="checkbox"/> PN# 111569-01, Sizes 400-500 | <input type="checkbox"/> PN# 111569-02, Sizes 650-1000 |
| <input type="checkbox"/> Outdoor Vent Kit | <input type="checkbox"/> PN# 110644-01, Sizes 400-500 | <input type="checkbox"/> PN# 110645-01, Sizes 650-1000 |
| <input type="checkbox"/> Universal Communications Gateway | <input type="checkbox"/> BACnet, Metasys N2, Modbus | <input type="checkbox"/> LonWorks |
| <input type="checkbox"/> Conductor Sequencing Panel | <input type="checkbox"/> Optional Isolation Relay Board | |

The Conductor manages multiple condensing & non-condensing, small & large heat output, new and/or existing boilers (full modulation or on-off), 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.

- | | | |
|--|--------------|-------------|
| <input type="checkbox"/> Water Heater Storage Tank | Model: _____ | Size: _____ |
|--|--------------|-------------|

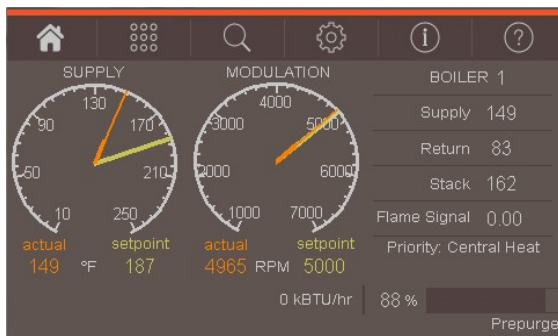
EXTENDED WARRANTY

- | | | | | |
|---------------------------------------|---------------------------------------|--|---|--|
| <input type="checkbox"/> 3-Year Parts | <input type="checkbox"/> 5-Year Parts | <input type="checkbox"/> 10-Year Parts | <input type="checkbox"/> 5-Year Parts/Labor | <input type="checkbox"/> 10-Year Parts/Labor |
|---------------------------------------|---------------------------------------|--|---|--|



Boiler SUBMITTAL DATA SHEET

CONCERT CONTROL FEATURES



Dashboard - Color Touchscreen Display, 4"

Intuitive Icon Navigation
"Quick" Setup Menus
*Real Time BTU/H Display

Two (2) Temperature Demand Inputs

Outdoor Air Reset Curve for Each Input
Time of Day Setback Capability
(Envirocom Thermostat must be installed)

Three (3) Pump Control

Boiler Pump With On/Off or Variable Speed Control
Domestic Hot Water (DHW) Pump
System Pump
Alternative Control to Combustion
Air Damper or Standby Loss Damper
Pump Overrun for Heat Dissipation
Pump Exercise
Pump Rotor Seizing Protection

Peer-to-Peer Boiler Communications

Multiple Size Boiler Sequencing Up to 8 Units
*Two (2) Boiler Start/Stop Trigger
Lead Boiler Automatic Rotation

Energy Management System (EMS) Interface

*Firing Rate and Water Temperature Based
Algorithms for Multiple Boilers; loss of EMS signal defaults to local boiler settings
420mAdc Input/Output (010Vdc Optional Converter)
ModBus Input/Output (BACnet or LonWorks Optional Gateway)
Simultaneous Interface with Peer-to-Peer

USB Data Port Transfer

Upload Settings Between Boilers
Download Parameters for Troubleshooting
Import Data into .CRV Formatted Files for Performance Analysis

* Unique to Concert



Energy Efficiency Enhancer

Anticycling Technology
Multiple boiler base load common rate
Outdoor Air Temperature Reset Curve
Warm Weather Shutdown
Boost Temperature & Time
Ramp Delay
Overtemperature Safeguarding

Self-Guiding Diagnostics

Identifies Fault
Describes Possible Problems
Provides Corrective Actions
Time/Date Stamp on Alarms and Lockouts

Unmatched Archives

Historical Trends Collects Up to 4 months Data
Event History Up to 3000 Alarms, Lockouts and Cycle & Run Times
Alarm Limit String Faults, Holds, Lockouts and Others
Cycle & Run Time Boilers & Pumps
Resettable (Lockouts/Alarms/Cycles & Run Time)

Domestic Hot Water Priority

DHW Tank Piped With Priority in the Boiler Loop
DHW Tank Piped as a Zone in the System With the Pumps Controlled by the Concert Control
DHW Modulation Limiting
Status Screens
Sensor Monitoring and Control

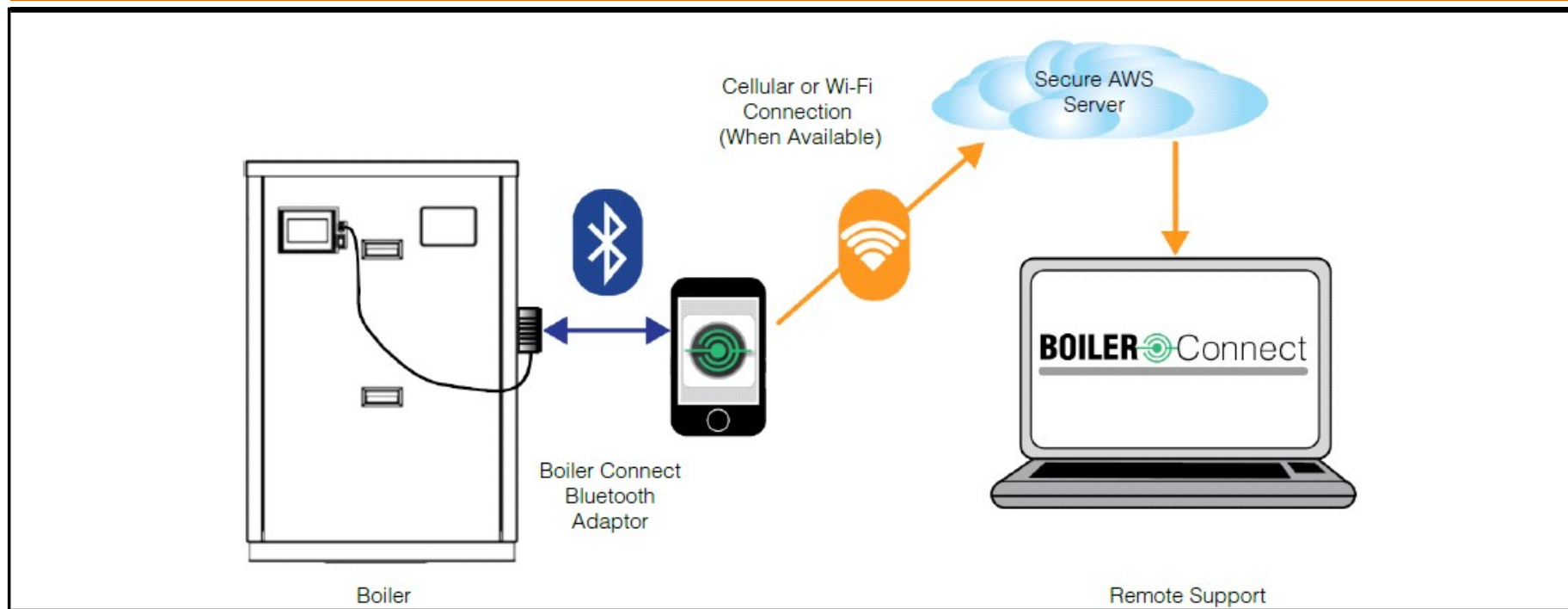
Other Features

Factory Default Settings
Three Level Password Security
Frost Protection
Contractor Contacts (Up to 3)
Low Water Flow Safety Control & Identification
Proportional Integral Derivative (PID) Parameters for Central Heat, DHS, Sequencer and Fan

Boiler Connect Compatible

Requires one (1) Boiler Connect Bluetooth Adapter Kit (PN# 113329-01) per install or cascade)

Boiler SUBMITTAL DATA SHEET



BOILER Connect

BOILER CONNECT FEATURES

- Bluetooth adapter connects to the Boiler Connect App
- English or Spanish language
- Start-up, Troubleshooting Tips and Service Wizards
- Data logs, Service and Status Reports sent to the cloud
- Live Data Sharing (Cellular Service Required) with Technical Service Representative