



SUBMITTAL DATA SHEET

JOB NAME: _____

LOCATION: _____

ENGINEER: _____

WHOLESALER: _____

CONTRACTOR: _____

SUBMITTED TO: _____

MODEL DESIGNATION: _____ FUEL: _____

DATE: _____



CHECK ONE: _____ REFERENCE (NOT FOR PRODUCTION)

_____ APPROVED (IMMEDIATE PRODUCTION)

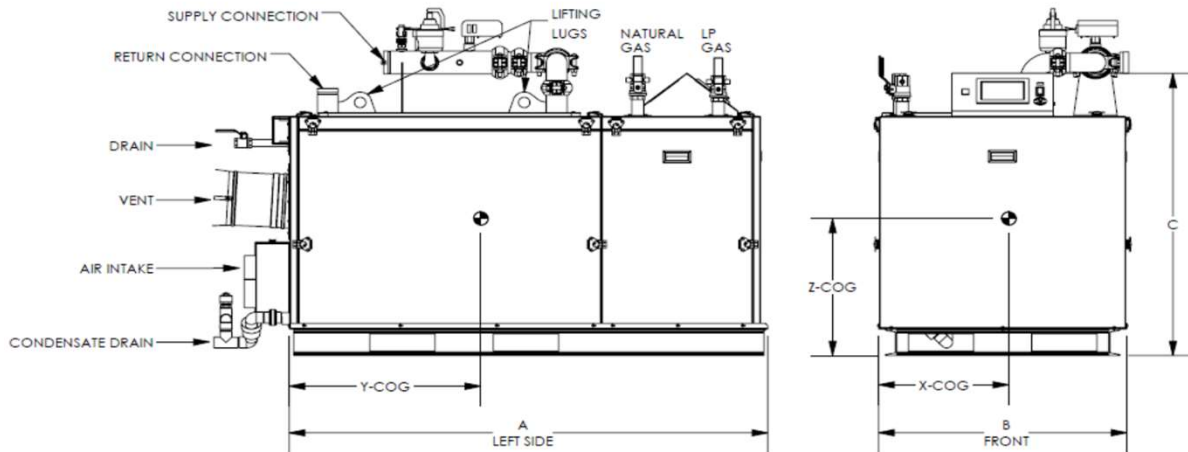
_____ APPROVED WITH CHANGES NOTED (IMMEDIATE PRODUCTION)

RATINGS AND TECHNICAL DATA

MODELS	INPUT		GROSS OUPUT (MBH)	THERMAL EFFICIENCY (%)	HEATING SURFACE (SQ/FT)	WATER CONTENT (GAL.)	*FUEL		SHIPPING WEIGHT (LBS)
	MIN (MBH)	MAX (MBH)					NAT. GAS MIN / MAX	PROPANE MIN / MAX	
AMPW-1000	200	999	970	97.0%	100	12.0	4"/14"wc	8"/14"wc	922
AMPW-1250	250	1250	1213	97.0%	100	12.0	4"/14"wc	8"/14"wc	922
AMPW-1500	300	1500	1455	97.0%	120	13.9	4"/14"wc	8"/14"wc	1217
AMPW-2000	400	1999	1940	97.0%	153	17.2	4"/14"wc	8"/14"wc	1217
AMPW-2500	500	2500	2425	97.0%	301	34.6	4"/14"wc	8"/14"wc	2281
AMPW-3000	600	3000	2910	97.0%	301	34.6	4"/14"wc	8"/14"wc	2281
AMPW-3500	700	3500	3395	97.0%	403	47.1	4"/14"wc	8"/14"wc	2581
AMPW-4000	800	3999	3880	97.0%	403	47.1	4"/14"wc	8"/14"wc	2581

*Single or Dual Fuel Options

DIMENSIONS



MODELS	"A" LENGTH (Inches)	"B" WIDTH (Inches)	"C" HEIGHT (Inches)	VENT / AIR INTAKE		GAS (Inches)	SUPPLY	RETURN
				SIZE (Inches)	EQUIV. LENGTH (Ft.)		Grooved Connection (Inches)	
AMPW-1000	45-1/2"	34-1/4"	42-3/4"	8	Up to 300	1 NPT	3	2-1/2
AMPW-1250	45-1/2"	34-1/4"	42-3/4"	8	Up to 300	1 NPT	3	2-1/2
AMPW-1500	66-1/8"	34-1/4"	42-3/4"	8	Up to 300	** 1-1/4 NPT	3	2-1/2
AMPW-2000	66-1/8"	34-1/4"	42-3/4"	8	Up to 200	1-1/4 NPT	3	2-1/2
AMPW-2500	75-5/8"	46"	54-7/8"	10	Up to 300	1-1/2 NPT	4	4
AMPW-3000	75-5/8"	46"	54-7/8"	10	Up to 300	1-1/2 NPT	4	4
AMPW-3500	97-1/8"	46"	54-7/8"	12	Up to 300	2 NPT	4	4
AMPW-4000	97-1/8"	46"	54-7/8"	12	Up to 300	2 NPT	4	4

** Propane is 1" NPT



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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 HLW stamp MAWT is 210°F for the vessel.
 (For max setpoint, see Setpoint range.)
 Five Year Limited Heat Exchanger Warranty
 Ten Year Limited Pressure Vessel Warranty

BOILER EQUIPMENT

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 Temperature & Pressure Safety Relief Valve, 150 psi

COMBUSTION DESIGN

Stainless Steel Pre-Mix Burner
 Low NOx Emissions (< 10 ppm)
 Full Modulation, 5:1 Turndown
 Natural Gas, Propane or Dual Fuel (Gas/Gas)
 4" wc (8" wc Propane) to 14" wc inlet gas pressure
 Direct Spark Ignition System with UV Scanner
 High/Low gas pressure switches, manual reset
 Zero governor gas valve
 Variable Speed Combustion Blower
 Air Proving Switch
 Blocked Vent Switch
 Manual fuel changeover switch (Dual Fuel Only)

ELECTRICAL DESIGN

Models 1000-2500:
 - 120-208-230VAC/60HZ/1PH - High Voltage
 (1500 to 2500 - Optional 208-230-460VAC/60HZ/3PH)
Models 3000:
 - 208-230-240VAC/60HZ/1PH - High Voltage
 - 208-230-240-460VAC/60HZ/3PH - High Voltage
Models 3500-4000:
 - 208-230-240-460VAC/60HZ/3PH - High Voltage
 - PCB (Printed Circuit Board) Fused Connections
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

VENTING

Category II or IV Venting
 Individual or Common (Engineered) Vent System
 Vertical or Horizontal
 CPVC, PP or SS Venting *Materials Acceptable
 Combustion Air Intake - Sealed or Room

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

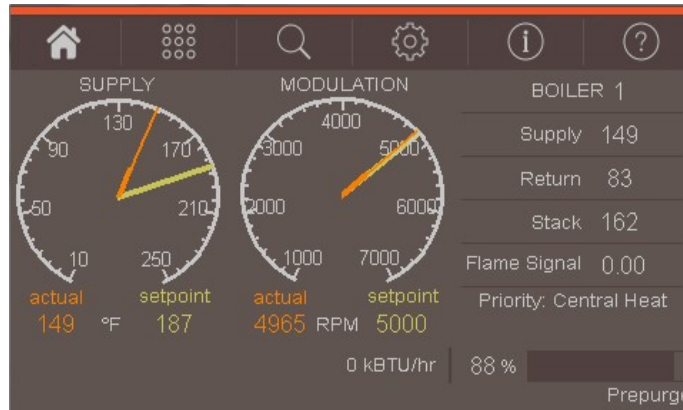
OPTIONAL EQUIPMENT

- _____ Hydronic Kit (Boiler Circulation Pump, Pump Flange Kit and Condensate Neutralizer)
- _____ External High Limit Temperature Control, Manual Reset
- _____ Condensate Neutralizer
- _____ Supply Header Temperature Sensor: Direct Immersion Well Immersion (with Well)
- _____ Outdoor Air Temperature Sensor: Wired Wireless
- _____ EMS Signal Converter Kit (Converts Energy or Building Management System 0-10v signal to 4-20mA)
- _____ Motorized Isolation Valves
- _____ Alarm Buzzer with Silencing Switch
- _____ Gas Valve Proving Switch
- _____ Vent Adapter - CPVC
- _____ Universal Communications Gateway (BACnet, Metasys, Modbus or Lonworks)
- _____ Stackable Rack
- _____ Conductor Sequencing Panel
 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.
- _____ Extended Warranty
 3 Year Parts 5 Year Parts 10-Year Parts 5-Yr. Prts/Lbr. 10 Yr. Prts/Lbr



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CONCERT CONTROL FEATURES



Dashboard - Color Touchscreen Display, 7"

- 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 Isolation Valve, 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
- 4-20mA Input/Output (0-10Vdc 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

- Anti-Cycling Technology
- Multipler boiler base load common rate
- Outdoor Air Temperature Reset Curve
- Warm Weather Shutdown
- Boost Temperature & Time
- Ramp Delay
- Over-Temperature 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 & Indication
- Proportion Integral Derivative (PID) Parameters for Central Heat, DWH, Sequencer and Fan
- Built-in Brown-Out Protection

