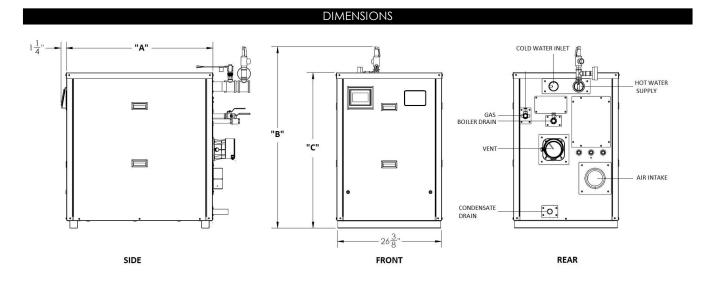
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SUBMITTAL DATA SHEET

JOB NAME:		ATE:
LOCATION:		t al
ENGINEER:		
WHOLESALER:		
CONTRACTOR:		
SUBMITTED TO:		
model designation:	FUEL:	
CHECK ONE:	REFERENCE (NOT FOR PRODUCTION)	
	APPROVED (IMMEDIATE PRODUCTION)	
	APPROVED WITH CHANGES NOTED (IMMEDIATE PRODUCTION	ON)

RATINGS AND TECHNICAL DATA									
	INPUT		GROSS	THERMAL	*DHW	WATER	*FUEL		SHIPPING
AMP-L MODELS	MIN	MAX	OUPUT	EFFICIENCY	RECOVERY	CONTENT	NAT. GAS	PROPANE	WEIGHT
	(MBH)	(MBH)	(MBH)	(%)	(GPH)	(GAL.)	MIN / MAX	MIN / MAX	(LBS)
AMP-L-400 WH	40	399	391	98.0%	470	3.8	4"/14"wc	8"/14"wc	460
AMP-L-500 WH	50	500	490	98.0%	588	4.3	4"/14"wc	8"/14"wc	470
AMP-L-650 WH	65	650	637	98.0%	764	5.6	4"/14"wc	8"/14"wc	530
AMP-L-800 WH	80	800	784	98.0%	941	6.6	4"/14"wc	8"/14"wc	560
AMP-L-1000L WH	100	999	979	98.0%	1176	8.1	4"/14"wc	8"/14"wc	600



	"A"	WIDTH	"В"	"C"	VENT / AIR		SUPPLY	RETURN	
	LENGTH	WIDIN	O/A HGT.	HEIGHT	SIZE	EQUIV.	GAS	OUTLET	INLET
AMP-L MODELS	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	LENGTH (Ft.)	(Inches)	NPT Female	NPT Male
AMP-L-400 WH	36 1/2	26 3/8	43	38 1/2	4	Up to 200*	3/4 NPT	2	2
AMP-L-500 WH	36 1/2	26 3/8	43	38 1/2	4	Up to 200*	3/4 NPT	2	2
AMP-L-650 WH	52 3/8	26 3/8	43	38 1/2	6	Up to 200*	1 NPT	2	2
AMP-L-800 WH	52 3/8	26 3/8	43	38 1/2	6	Up to 200*	1 NPT	2	2
AMP-L-1000L WH	52 3/8	26 3/8	43	38 1/2	6	Up to 200*	1 NPT	2	2

^{*} Based on combined 100' max eq. ft each combustion and vent length respectively.

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SUBMITTAL DATA SHEET

STANDARD EQUIPMENT

PRESSURE VESSEL DESIGN

Stainless Steel Heat Exchanger

ASME Section IV Certified, "HLW" 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

COMBUSTION DESIGN

Stainless Steel Pre-Mix Burner

Low NOx Emissions (< 10 ppm)

Full Modulation, 10:1 Turndown

Natural Gas or Propane

4" wc (8" wc Propane) to 14" wc inlet gas pressure

Direct Spark Ignition System

High/Low gas pressure switches, manual reset

Variable Speed Combustion Blower

Air Proving Switch

Blocked Vent Switch

VENTING

Category II or IV Venting

Indivdual or Common (Engineered) Vent System

Vertical or Horizontal

3-in-1 Vent Connector

Acceptable venting materials: CPVC, PP or SS Venting

NOTE: PVC venting requires CPVC Vent kit; Consult I&O Manual

Built-in vent gas sensor test port

Combustion Air Intake - Sealed or Room

WATER HEATER 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 Relief Valve, 150 psi

ELECTRICAL DESIGN

Models 400-500:

- 120 VAC Only

Amp Draw: 7.0 Amps

Models 650-1000L:

- 120 VAC Only

Amp Draw: 8.0 Amps

- PCB (Printed Circuit Board) Fused Connections

24VAC/5VDC - Low Voltage PCB

- EMS Communications

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

- DHW Demand Contacts
- Remote Header Sensor Contacts
- Remote 4-20mA Contacts

NOTE: Stacking Brace Kit (PN# 111405-01 is included with all 400-1000L models. The kit includes 2 braces and 8 self-drilling screws.

NOTE: OUTDOOR APPLIANCES CANNOT BE STACKED!

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

OPTIONAL EQUIPMENT

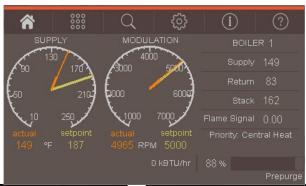
External High Limit Temperature Control, Manual Reset Condensate Neutralizer								
Hot Water Header Te	emperature Sensor:	☐ Direct Immersion		Well Immersion (with Well)				
EMS Signal Converter Kit (Converts Energy or Building Management System 0-10v signal to 4-20mA)								
Alarm Buzzer with Silencing Switch								
PVC Starter Kit		CPVC Vent Kit, Sizes 650-1000						
Universal Communications Gateway (BACnet, Metasys, Modbus or Lonworks)								
Conductor Sequencing Panel								
(full modulation or o modulating the right Management Syster	Conductor manages multiple condensing & non-condensing, small & large heat output, new and/or existing boilers modulation or on-off), and steam or hot water applications. It helps improve system efficiency by selecting and fulating the right boiler to match operating conditions. The Conductor offers a single point boiler plant Energy agement System (EMS) interface including Modbus TCP/IP, Modbus RTU RS485, BACnet/IP and BACnet MSTP standard. Inworks needed, add for the separate Lonworks gateway.							
Extended Warranty								
3 Year Pa		5 Year Parts	10-Year Pa	arts				
5-Yr. Prts/L	.br.	10 Yr. Prts/Lbr	\sqcup					

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SUBMITTAL DATA SHEET

CONCERT CONTROL FEATURES



Dashboard - Color Touchscreen Display, 4"

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

Temperature Demand Inputs

- Time of Day Setback Capability
 (Enviracom Thermastat must be installed)

Two (2) Pump Control

- System Pump
- Alternative Control to Combustion

 Air Damper or Standby Loss Damper
- Pump Overun for Heat Dissipation
- Pump Exercise
- Pump Rotor Seizing Protection

Peer-to-Peer Boiler Communications

- Multiple Size Unit Sequencing Up to 8 Units
- 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 settings
- 4-20mAdc 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 Units
- Download Parameters for Troubleshooting
- Import Data into .CRV Formatted Files for Performance Analysis
- * Unique to Concert

Energy Efficiency Enhancer

- Anti-Cycling Technology
- Multipler Unit Base Load Common Rate
- 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 Water Heaters & Pumps
- Resettable (Lockouts/Alarms/Cycles & Run Time)

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 DWH, Sequencer and Fan
- Built-in Brown-Out Protection

