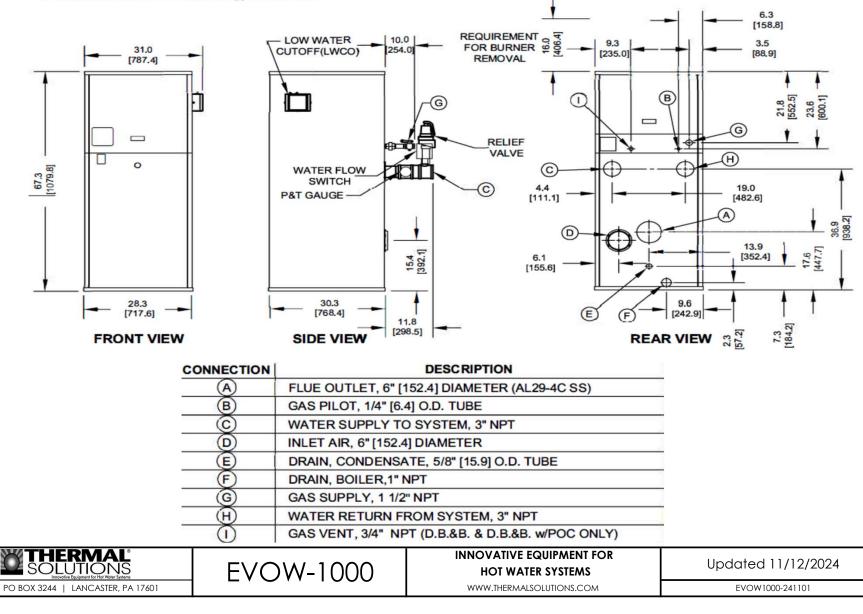
EVOLUTION EVA NON-CONDENSING BOILERS - SUBMITTAL DATA SHEET

NOTES:

- 1. SEE O&M FOR REQUIRED INSTALLATION CLEARANCES.
- 2. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
- 3. DIMENSIONS ENCLOSED IN [] ARE IN MM.



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RATINGS AND CAPACITIES					
Input (MBH):	1,000,000	BTU/HR			
Output (MBH):	880,000	BTU/HR			
Boiler Horsepower:	26.3	BTU/HR			
Thermal Efficiency:	88.0%	BHP			
Heating Surface:	175	Sq.Ft.	_		
Water Content:	16.4	Gallons			
Fuel:	Natural Gas or LP Gas				
Firing Rate:	Reliable Modulation				
Burner Turndown:	3:1				
Low NOx Emissions:	<10 ppm				
Inlet Gas Pressure (NG):	7" wc - 14" wc*				
Inlet Gas Pressure (LP):	8" wc - 14" wc*				
* This data supercedes data found on Table 3 of I&O Manual, per PRC			_		
Shipping Weight, Approximate:	1,185	lbs			
ASME Section IV (Max 160 PSIG / 250°F)		(As)			
Setpoint range is 145-230°F		ل تي ا	_		
Adjustable, manual reset high limit setting of \leq 240°F.					
ASME H stamp MAWT is 250°F for the vessel. (For max setpoint, see Setpoint range.)					
ETL Certified to ANSI Z21.13 / CSA 4.9					
ETL Certified to UL 795 / CSA 3.1		Intertek	(
	CONNECTIONS				
Height:	67 1/8"	(Note 1)			
Width:	28 1/4"	(Note 2)			
Length:	30 1/4"	(Note 3)			
Supply Connection:	3"				
Return Connection:	3"				
Vent / Air Intake Connections:	6" Vent	6" Intake			
Condensate / Boiler Drain Connection:	5/8" Condensate Tube	1" NPT Pipe, Boiler			
Gas Connection:	1 1/2"				

FLOWS AND PRESSURE DROPS				
Delta T	Flow (GPM)	△ P (Ft. Hd)		
$20^{\circ}F \bigtriangleup T$	82 (Max)	3.24		
$40^{\circ}F \bigtriangleup T$	41 (Min)	0.81		

Electrical Supply Options	
120v/60hz/1ph (Standard)	4.5 Amps
208v/60hz/1ph	3.5 Amps
230v/60hz/1ph	3.4 Amps
208v/60hz/3ph	3.0 Amps
230v/60hz/3ph	2.9 Amps
460v/60hz/3ph	1.5 Amps

Blower Motor	(hp)
1-1/2 hp	

Relief Valve Options					
	30 psi		50 psi		60 psi
	75 psk		100 psi		125 psi
	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

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STANDARD EQUIPMENT

PRESSURE VESSEL DESIGN

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

COMBUSTION DESIGN

Maintenance-free ceremic burner Ultr-low NOx emissions (<10ppm) Whisper quet operation (<50 dBA) Industustrial-grade combustion air filter, 99% efficient Industrial cast aluminum blower assembly Variable frequency drive Electric spark-to-pilot ignition system 10-year burner warranty Robust UV-Scanner

VENTING

Sealed or room air combustion Direct vent (sidewall or vertical) (Cat IV) Conventional ventinting (Cat II) NOTE: This is NOT a Cat 1 Vent appliance.

BOILER EQUIPMENT

Siemens RWF55 operating control

High limit w/ manual reset safety temperature control Water flow swtich Low water cut-off with manual reset safety controller Outlet temperature sensor Combustion air switch Pressure and temperature gauge Safety relief valve (Optional pressuress 30 - 150 PSI; See details above.) Single point electrical supply: (Available in: 1 and 3 phase

options. See details above.)

BURNER EQUIPMENT

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

SIEMENS RWF55 OPERATING CONTROL FEATURES

Adjustable set point Remote set point (0-10v or 4-20 mA) Outdoor air temperature reset Remote system temperature monitoring

OPTIONAL EQUIPMENT

Low gas pressure venturi, 4" wc (Available on Models 750-2000 C Double block & bleed (DB&B) Gas Train - (1) motorized & (1) solenoid valve & N.O. vent valve

IRI with Proof of Closure Gas Train - (2) motorized valves w/ POC & N.O. vent valve

Honeywell 7800 Series display with ModBus Module

Line Reactor Adds voltage / spike protection for the blower's VFD. (Highly recommended .)

Outdoor Air Sensor

Condensate neutro



□ 1.200 MBH □ 5.000 MBH

Hydronic Kit (Boiler Circulation Pump, Pump Flange Kit and Condensate Neutralizer) Sized based on a 20°F \triangle T

Annual Maintenance Kit

Supply System temperature sensor

ModBus communication for Siemens RWF55 and Honeywell Flame Safeguard Control (Boiler to BMS

Universal communications gateway (BacNet MS/TP,

General Alarm

Local / remote switch

Relays:

Alarm bell with silencing switch

Boiler Status

Conductor Sequencing Panel: (Required for multiple EVA boiler applications without BMS); Contact Regional Manager with

The Conductor manages multiple condensing & noncondensing, 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.

Extended Warranty Options Available:

	<u>3-Year</u>	<u>5-Year</u>	<u> 10 Year</u>
Parts Only			
Parts and Labor	N/A		