



# **LIST PRICE SHEET**

Effective September 1, 2017

# FREE FLEX CONDENSING BOILERS

Hot Water ● Natural Gas¹ ● 95% Thermal Efficiency ● Max 160 PSI / 210°F ASME Section IV Approved, ETL Certified and ASME CSD-1 Compliant

		Gross		Standard		Supply &	Standard	Standard	Shipping		
Model	Input	Output	Thermal	G	as Pressu	re	Return	Vent	Air Intake	Weight	List
Sizes	(MBH)	(MBH)	Efficiency	NG (Min)	LP (Min)	(Max)	Connections	Size/Equiv. Ft.	Size/Equiv. Ft.	(lbs)	Price
FF-1000	1,000	950	95.0%	4.0" wc	TBD <sup>1</sup>	14.0" wc	3" Victaulic	6" / 100 ft	6" / 100 ft	1,620	\$19,692
FF-1500	1,500	1,425	95.0%	7.0" wc	TBD <sup>1</sup>	14.0" wc	3" Flanged	8" / 100 ft	8" / 100 ft	2,560	\$27,625
FF-2000	2,000	1,900	95.0%	7.0" wc	TBD <sup>1</sup>	14.0" wc	3" Flanged	8" / 100 ft	8" / 100 ft	2,560	\$31,875
FF-2500	2,500	2,375	95.0%	7.0" wc	TBD <sup>1</sup>	14.0" wc	3" Flanged	10" / 100 ft	10" / 100 ft	3,060	\$40,375
FF-3000	3,000	2,850	95.0%	7.0" wc	TBD <sup>1</sup>	14.0" wc	3" Flanged	10" / 100 ft	10" / 100 ft	3,060	\$46,750

<sup>1.</sup> Available with Natural Gas only. LP gas-firing to be determined - Consult Factory.

	BOILER OPTIONS						
Description			List Price				
Reverse Construction (FF-1500 - 3000 only)							
Knockdown Configurations :		\$449 \$2,833					
(FF-1500 - 3000 only)	<ul> <li>KD-1 - Ships with jacket, flue collector/heat exchanger and base in se</li> <li>KD-2 - Ships with jacket, flue collector, tubes, burner, stack, lower tub</li> </ul>		\$3,542				
(11 1000 0000 chily)	in separate cartons.						
	- KD-3 - Configured to suit job application						
			Factory				
•	tested, then disassembled per the knockdown configuration above.						
	d-time and add 2 weeks on more than 3 units. KD-3 consult factory.	-4- d\					
	PTIONAL EQUIPMENT (Shipped Loose Unless Otherwise N	otea)	_				
Description		Part Number	<b>List Price</b>				
<ul> <li>EMS Signal Converter</li> </ul>	- Converts BMS signal (0-10v) to 4-20mA, Shop Mounted & Wired	107183-01	\$438				
Alarm Buzzer with Silencing S	witch (24v), Shop Mounted & Wired	107216-01	\$207				
Communications Gateway :	- BACnet IP, BACnet MS/TP, Metasys N2 Open	106432-02	\$904				
	- LonWorks	106433-02	\$904				
ightarrow One (1) Universal Communication	ons Gateway can be used on multiple boilers; Up to 8 units.						
<ul> <li>Condensate Neutralizer Kit</li> </ul>	- 1,200 MBH Capacity	107860-01	\$139				
	- 2,000 MBH Capacity	107860-02	\$185				
	- 4,000 MBH Capacity	107860-03	\$254				
• Sensors :	- Remote System Header Sensor, Direct Immersion	101935-01	\$89				
	- Remote System Header Sensor, Well-Mounted	105685-01	\$33				
	- Well, Brass 1/2" NPT (System Header Sensor)	105684-01	\$21				
	- Outdoor Air Sensor	801SOL0012	\$89				
	- *Outdoor Air Sensor Kit, Wireless	106035-01	\$259				
* Wireless required if using remote	e header sensor on (1) Free Flex boiler; only one wired connection for both function						
<ul> <li>Motorized Isolation Valves :</li> </ul>	- 2" (FF-1000)	107351-01	\$1,708				
	- 3" (FF-1500 - 3000)	107351-02	\$1,757				
Grooved Fitting-to-Flange Train	107522-01	\$145					
• Tube Replacement Tools:	- Tube Puller FF-1000	106019-02	\$184				
	FF-1500 - 3000	106019-06	\$280				
	- Tube Driver FF-1000	106019-01	\$67				
	FF-1500 - 3000	106019-05	\$115				
→ Sledgehammer to be used shall	be approx. 3 lbs steel head						



# **EFLEX**

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# FREE FLEX CONDENSING BOILERS

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STAN	DARD	ROI	I FR	FOL	IIPM	IFNT
JIAN		201		LWL	/ II IV	

PRESSURE	VESSEL	DESIGN

ASME certified stainless steel heat exchanger ASME Section IV-certified, "H" Stamp MAWP 160 PSIG & max temp 210°F Ten Year limited heat exchanger warranty Lifetime thermal shock warranty

#### ELECTRICAL DESIGN

120v/60hz/1ph power supply

208-240v/60hz/1ph power supply (1500 to 3000) 208-240-460v/60hz/3ph power supply (2000 to 3000)

24v low voltage control

# COMBUSTION DESIGN

Stainless steel mesh pre-mix burner Low NOx emissions capable Full modulation, 5:1 turndown Natural gas (consult factory on LP gas) 4" wc to 14" wc inlet gas pressure Direct spark ignition system/UV scanner

Hi/Lo gas pressure switches, man. reset (CSD-1)
Variable speed combustion blower

Air proving switch

# VENTING/AIR INTAKE

Air intake – ducted or room air

Category IV venting w/ engineered vent system

Category II common venting w/ engineered vent system

# **BOILER EQUIPMENT**

Concert Boiler Control™(24 Vac)

High limit safety temp control, manual reset (CSD-1)

Low water cutoff, manual reset (CSD-1)

Water flow switch

Supply & return water temperature sensors

Flue gas temperature sensor

Air vent valve
Condensate trap

Blocked Condensate Switch Blocked Vent Air Switch

Pressure & temperature gauge

ASME safety relief valve 50 psig

(optional 30,60,75,100,125, or 150 psig)

# STANDARD CONCERT CONTROL FEATURES



#### Dashboard - Color Touchscreen Display, 7.0"

- 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

(Enviracom Thermastat 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 Overun 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

Unique to Bryan Boilers

#### Energy Management System (EMS) Interface

- \*Firing Rate and Water Temperature Based Algorithms for Multiple Boilers; loss of EMS signal defaults to local boiler settings
- 4-20mAdc 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 Boilers
- Download Parameters for Troubleshooting
- Import Data into .CRV Formatted Files for Performance Analysis

#### Unmatched Archives

- Historical Trends Collects Up to 4 months Data
- Event History Up to 3000 Alarms, Lockouts & 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

# 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 & Lockouts

#### Other Features

- \*Factory Default Settings
- Three Level Password Security
- Frost Protection
- Contractor Contacts (Up to 3)
- Low Water Flow Control & Indication
- Proportion Integral Derivative (PID)

  Parameters for Central Heat, DWH,
- Sequencer and Fan
- Built-in Brown-Out Protection