

# FREE FLEX

Ultra-High Efficiency Commercial Condensing Boilers

## *Free to Move*

- 95% AHRI Certified Efficiency
- 1000 - 3000 MBH
- Fully Field Repairable
- Lifetime Thermal Shock Warranty
- Variable-Primary or Primary/Secondary



# **B**™ **BRYAN**® **BOILERS**

Designed and Manufactured in the U.S.A.

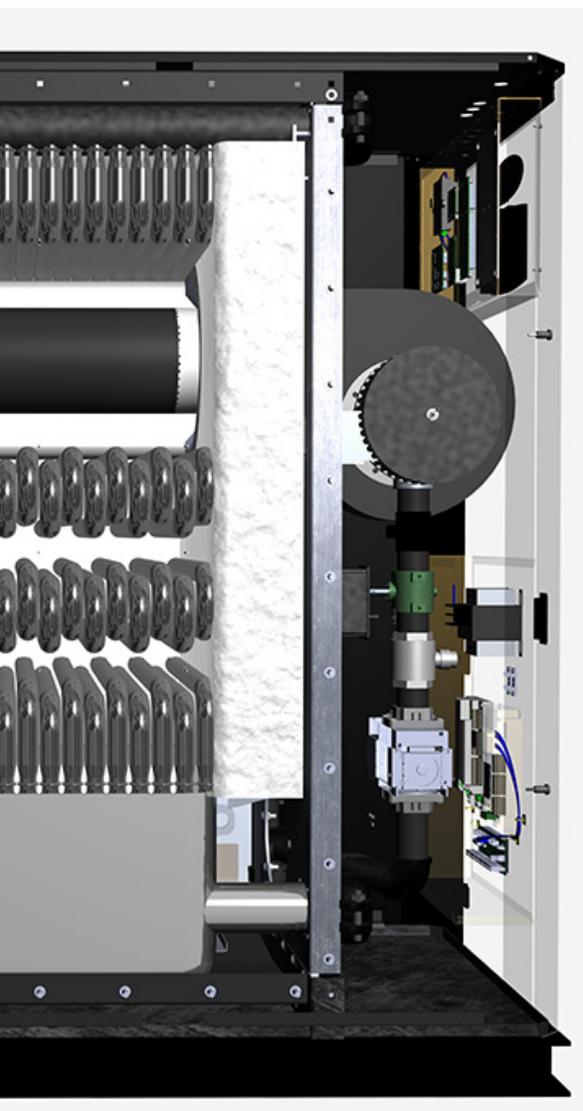
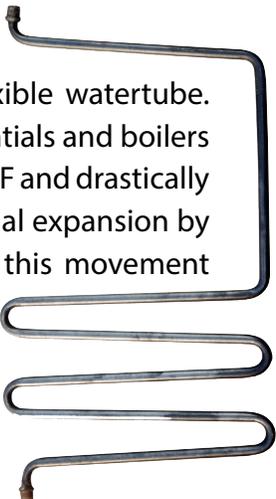


# Reliability, and Serviceability.

... is... a LIFETIME. Our cornerstones of LONGEVITY, RELIABILITY, and SERVICEABILITY are part of every Bryan boiler. Our "Free Flex" replicas exhibiting endless welds and non-repairable or stationary tube sheets at odds with burner tubes are the guarantee against thermal shock where no other competitive welded product dare go beyond 10 years. Our "Free Flex" allows for an industry first - field replacement of tubes and an optional knockdown configuration to go from a high turndown system up to 20:1.

## FREE TO MOVE!

Our design beats our exclusive flexible watertube. It is designed to temperature differentials and boilers operating at temperatures approaching 2000°F and drastically reduces the expansion and contraction points for this natural thermal expansion by eliminating the need for welds to hold back this movement. Our inclined flex tubes allow for natural circulation, mixing of fluids, and velocity through the tubes to prevent fouling and separation of solids.



## Lifetime Thermal Shock Guarantee

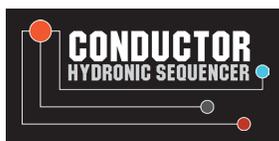
A swaged mechanical fit, free of welds, seals the tube to header allowing for simple and quick tube replacement should repairs ever be required. Not only is Free Flex the only repairable condensing boiler on the market, it is also backed by Bryan's Thermal Shock Lifetime Seal Guarantee. Only Bryan can provide this level of assurance for our customers.



## State-Of-The-Art Control System

Whether it be stand-alone, sequencing multiple boilers and/or communicating with a building management system, the Concert™ Boiler Control "checks all the boxes" for today's needed control features and functions:

- Large 7" color touch screen display
- 5:1 Turndown (high turndown option)
- Two (2) temperature demand inputs
- Three (3) pump control
- Up to 8 unit boiler sequencing
- BMS interface
  - 4-20mA standard / 0-10v optional
  - Modbus standard
  - BacNET, Lonworks & other optional protocols
- USB data sharing port
- Energy efficiency enrichment technology
- Built-in diagnostics
- Huge archive database
- Time/date stamp on alarms and lockouts
- Domestic water priority
- Factory default settings
- Three level password security
- Frost protection
- Boiler sensor monitoring and control
- Low water flow safety control and indication
- Proportion integral derivative (PID) parameters
- Brown-out protection



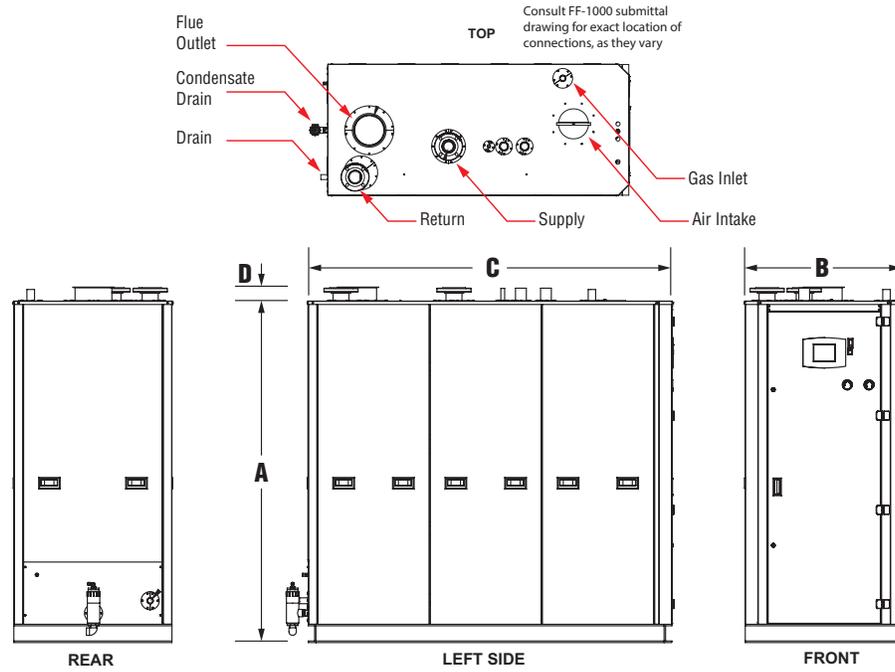
## Harmonizing Boilers with Systems

Optional control panel integrates all makes of boilers (water or steam) for seamless, single-point connection with EMS. Improves efficiency and operation of condensing, non-condensing, hybrid or steam systems up to 8 units. "Smart Ops" select boiler type (condensing or non-condensing) based on load requirements and inputs of boilers of any size. Selectable Unison and/or Sequential modulation with base load ensures peak efficiency and maximum run time for all types of boiler technologies.



# Bryan Free Flex

## Ultra High Efficiency Commercial Condensing Boilers



### Specifications, Dimensions, & Ratings

MODEL	Ratings			THERM EFF. %	"A" EIGHT (IN.)	"B" WIDTH (IN.)	"C" LENGTH (IN.)	"D" CONN. HEIGHT (IN.)	SUPPLY/ RETURN CONN. (IN.)	VENT DIA. (IN.)	AIR INTAKE DIA. (IN.)	CONDENSATE & BOILER DRAIN CONN. (IN.)	GAS CONN. (IN.)	APPROX. SHIPPING WEIGHT (LBS)
	MIN INPUT (MBH)	MAX INPUT (MBH)	GROSS OUTPUT (MBH)											
FF-1000	200	1000	950	95.0	64	29	72	6	3 Victaulic	6	6	1	1	1620
FF-1500	300	1500	1425	95.0	75	35	80	3	3 Flange	8	8	1	2	2560
FF-2000	400	2000	1900	95.0	75	35	80	3	3 Flange	8	8	1	2	2560
FF-2500	500	2500	2375	95.0	75	35	93	3	3 Flange	10	10	1	2	3060
FF-3000	600	3000	2850	95.0	75	35	93	3	3 Flange	10	10	1	2	3060

#### 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

#### COMBUSTION DESIGN

Stainless steel mesh pre-mix burner  
 Low NOx emissions  
 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  
 High & Low Gas Pressure Switches, Manual Reset  
 Variable speed combustion blower  
 Air proving switch

#### BOILER EQUIPMENT

Concert Boiler Control™(24 Vac)  
 High limit w/ manual reset safety temperature control  
 Low water cutoff, manual reset  
 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)

#### VENTING

Air Intake - Ducted or Room Air  
 Category IV Individual Venting with Engineered Vent System  
 Category II Common Venting with Engineered Vent System

#### ELECTRICAL DESIGN

120 VAC / 60 Hertz / 1 phase power supply  
 208-240 VAC / 60 Hertz / 1 phase power supply (FF-1500 to 3000)  
 208-240-460 VAC / 60 Hertz / 1 phase or 3 phase power supply  
 (FF-2000 to 3000)  
 24 VAC low voltage control power supply

#### OPTIONS

Condensate neutralizer  
 Header sensor, direct immersion  
 Header sensor, well immersion (with well)  
 Outdoor air reset sensor  
 Knockdown configuration  
 Reverse construction  
 Communication gateway  
 BMS signal converter kit  
 Motorized zone valve



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