# Fuiton

ENDURAXE

Condensing Firetube Hydronic Boilers

399,000 - 750,000 вти/нг



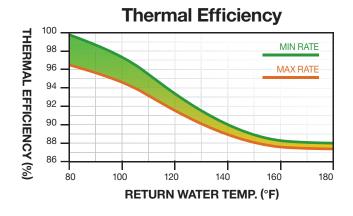
- ► Flame-by-Wire<sup>™</sup> Combustion
- ▶ Real-Time O<sub>2</sub> Compensation<sup>™</sup>





## HEAVY-HITTER FOR ENERGY SAVINGS

Hundreds of thousands of installations around the world rely on Fulton's legendary rugged, robust and reliable boilers. Like all Fulton products, the ENDURA XE is built to last and delivers leadingedge efficiencies and utility savings.



### **Reduce Fuel Costs & Emissions**

The ultra-high efficiency heat exchanger and fuel-saving burner reduce fossil fuel use by 15% and NOx emissions by 80% compared to conventional boilers.

### **Simplify Your Installation**

Fully electronic combustion controls use Flame-by-Wire<sup>™</sup> technology. This installer friendly system is simpler to learn and operate, significantly reducing commissioning time and complexity.

### **Trusted Long-Life Durability**

Firetube architecture is recognized for superior dependability and ease of installation. The ENDURA XE envelops tubes within a large volume of water, eliminating costly buffer tanks and primary-secondary piping.

### LOW MAINTENANCE RELIABLE BURNER

Fulton's patent-pending Anavo Burner<sup>™</sup> combines environmentally friendly low NOx emissions with the rugged durability of industrial-grade equipment. With no mesh fabric to clean, and no air filters to change, burner maintenance has never been simpler.

- Simpler Maintenance & Lower Cost of Ownership
- Even Tube Heat Loading for a Longer Lasting Heat Exchanger
- Exceptionally Durable with Low NOx Emissions



# FIRETUBE TECHNOLOGY

The ENDURA XE<sup>™</sup> is engineered and built to the same rugged reliability standards as Fulton's heavy-duty industrial boilers. Superior construction materials and water management make the ENDURA XE last longer, even in the most demanding applications.

- Built-in Buffer Reduces Cycling
- Lower Pump Head Requirements
- Protects Against Scale & Corrosion

### Supercharged Heating

ENDURA XE packs more performance into a smaller package, keeping your building efficiently and reliably heated while saving valuable space in the mechanical room.

### Stainless Heat Exchanger

Type 439 stainless steel features 68% greater strength than 316L. There is also zero-risk of chloride stress corrosion cracking, a catastrophic mode of failure seen with boilers using 304 and 316L.

#### Long-Lasting Durability

Innovative water baffle technology prevents scale from forming, ensuring a long-lasting and efficient heat exchanger. This maximizes heating comfort and lowers lifetime fuel costs.





# PURE CONTROL

### **Complexity Simplified**

Fulton's powerful yet intuitive PURE Control<sup>™</sup> provides rapid access to operating details and configuration. It efficiently sequences up to 10 boilers and eliminates the need for a master boiler or standalone panel. When a boiler is powered off, the plant seamlessly transitions to the next available stage for reliable heating.

- Outdoor Reset with Setback Mode
- Motorized Isolation Valve Control
- Variable Speed Pump Control
- Saves Energy by Reducing Cycling
- ModBus / BACnet Configurable



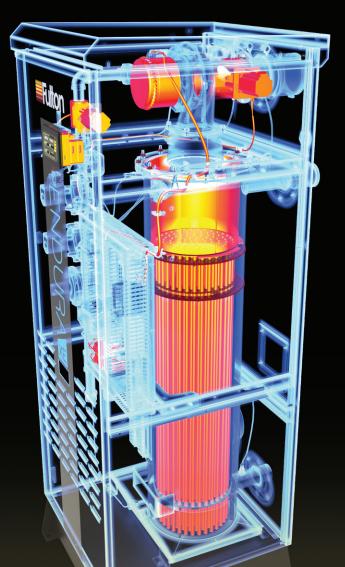


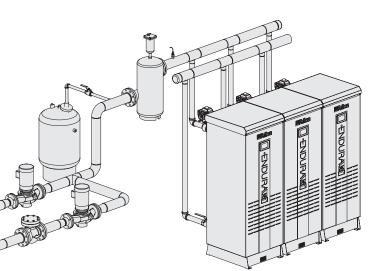
### **Combustion Technology**

Inspired by advances in automotive and aviation, Flame-by-Wire<sup>™</sup> technology replaces the use of conventional pneumatic ("neg-reg") and mechanical linkage systems with a modern system of independent air and gas valves. Real-time O2 Compensation<sup>™</sup> continuously tunes the burner air-fuel ratio, automatically optimizing for seasonality.

- Simplifies Start-Up & Maintenance
- Maximizes Condensing Operation
- Reduces Fuel Bills & Emissions







### VARIABLE PRIMARY FLOW DESIGN

Variable primary flow is a simplified piping method which enhances temperature comfort, reduces installation complexity, eliminates dedicated boiler pumps, and maximizes fuel savings by returning the lowest temperature water directly to the boiler inlet without the inefficient blending of a primary-secondary manifold.

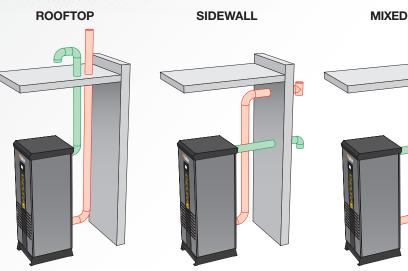


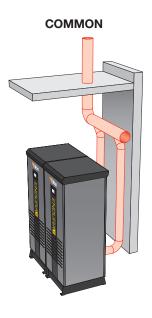
### **Compact Design**

The compact footprint and zero side clearance make the ENDURA XE an excellent choice for both retrofit and new construction, freeing up valuable mechanical room space.

### **Flexible Venting Arrangements**

ENDURA XE supports 16 different combinations of venting including sidewall or rooftop, room air or sealed combustion, plastic or stainless flue materials, and manifolded common venting.

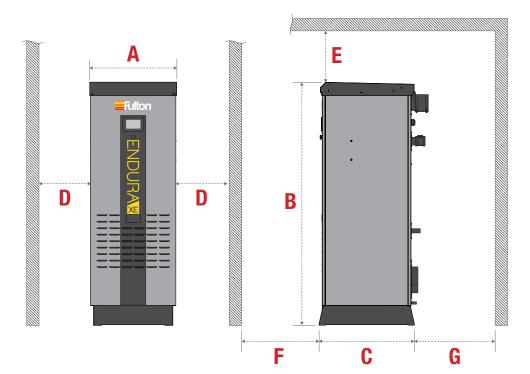




### **SPECIFICATIONS & DIMENSIONS**

	MODEL	EXE-399	EXE-500	EXE-650	EXE-750
SPECIFICATIONS					
Input Capacity	MBTU/Hr	399	500	650	750
Water Content	Gal	10.4	10.4	17.9	17.9
Pressure Drop at 20°F $\Delta T$	PSI	1.2	2	1.4	1.9
Operating Weight	LBS	537	537	674	674
AHRI Thermal Efficiency	%	98	97.3	96.3	96
DIMENSIONS					
(A) Boiler Width	IN	26.3	26.3	26.3	26.3
(B) Boiler Height	IN	73.7	73.7	73.7	73.7
(C) Boiler Depth	IN	28.9	28.9	28.9	28.9
CLEARANCES					
(D) Side	IN	0	0	0	0
(Е) Тор	IN	16	16	16	16
(F) Front	IN	24	24	24	24
(G) Rear	IN	12	12	12	12

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NOTE: Specifications and dimensions are approximate and for reference only. Fulton practices continuous product improvement and reserves the right to change specifications and/or dimensions without notice.



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