



ENDURA+

ULTRA HIGH EFFICIENCY
CONDENSING BOILERS

2.5 – 6.0 MILLION BTU/HR



UNCOMPROMISING PERFORMANCE

A REVOLUTION IN FIRETUBE CONDENSING BOILER DESIGN

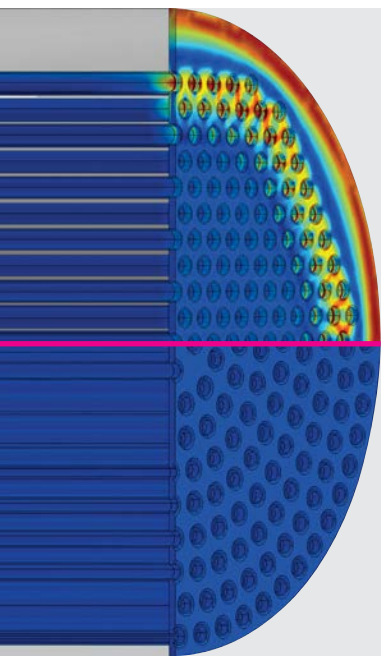
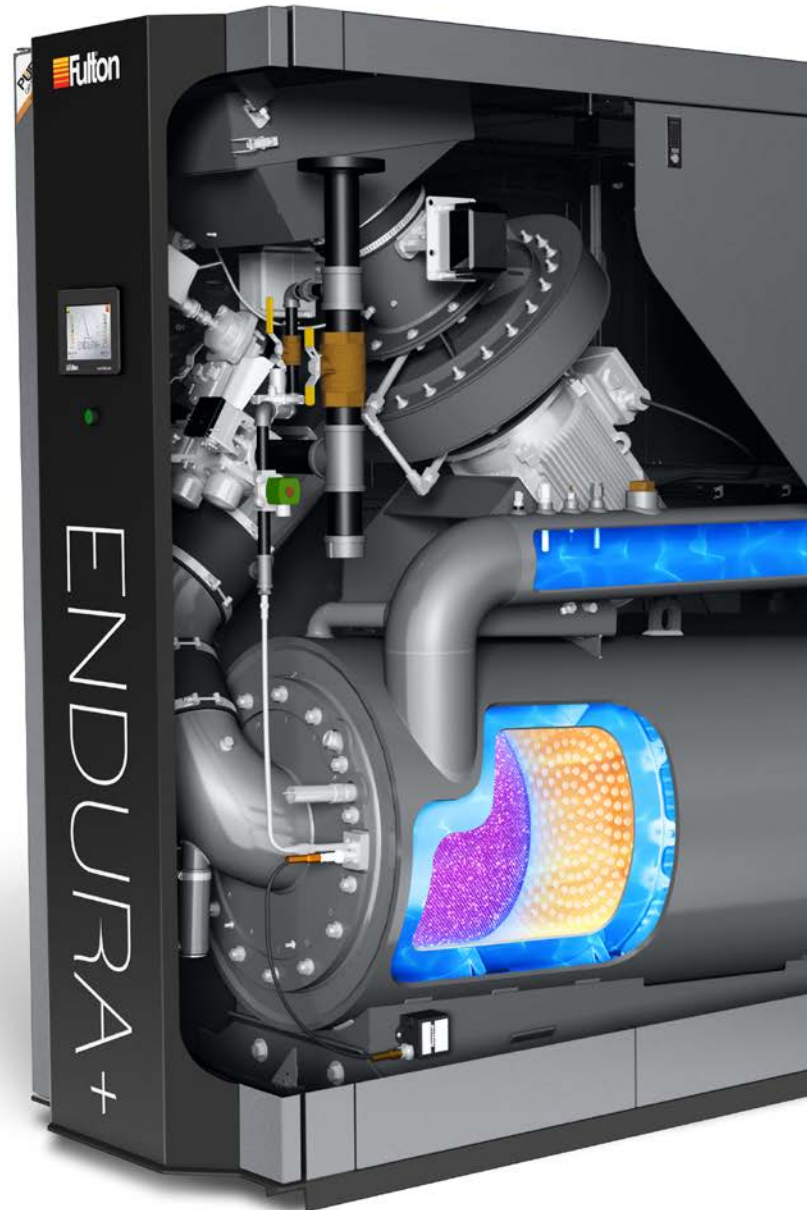
The ENDURA+ achieves up to 99% efficiency, while significantly expanding upon Fulton's legendary durability.

- ▶ DESIGNED FOR VARIABLE PRIMARY FLOW
- ▶ UP TO 15:1 TURNDOWN; O₂ COMPENSATION
- ▶ NATURAL GAS PRESSURES DOWN TO 4" WC

EASE OF INSTALLATION, OPERATION & SERVICE

With an ultra-compact footprint, automatic maintenance reminders, and trending data logs, the ENDURA+ is easier to install and service.

- ▶ FITS THROUGH A STANDARD DOORWAY
- ▶ ACCESS PANELS DETACH IN SECONDS
- ▶ SIMPLIFIED SERVICE & MAINTENANCE



OPTIMIZED HEAT EXCHANGER

Built with **Duplex stainless steel**, the ENDURA+ heat exchanger features higher strength, increased resistance to corrosion, and superior thermal strain management. Shown on the left, Finite Element Analysis (FEA) reveals the stark contrast in operating stresses between competing equipment (**top**) and Fulton's patent-pending design (**bottom**).

- ▶ COMPACT, DURABLE, AND EFFICIENT
- ▶ 23% LESS THERMAL EXPANSION COMPARED TO 316L STAINLESS STEEL HEAT EXCHANGERS

★★★★★

20+
PATENTS
PENDING
WORLDWIDE

★★★★★

TRULY STRESS-FREE OPERATION

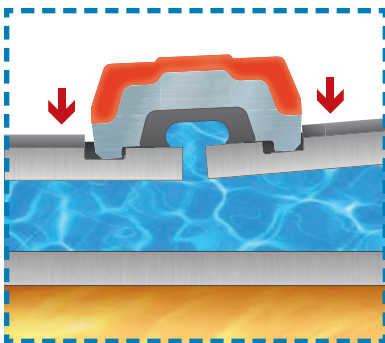
FULTON EXCLUSIVE STRESS RELIEVER

Conventional designs sacrifice material integrity and durability by transferring the stresses of operation directly onto the tubesheet and heat exchanger tubes. The ENDURA+ **eliminates longitudinal thermal expansion stress** by absorbing thermal growth externally to the pressure vessel shell.

- ▼ HEAT EXCHANGER FREELY EXPANDS/CONTRACTS
- ▼ BOILER LIFE GREATLY EXTENDED
- ▼ LIFETIME THERMAL SHOCK WARRANTY



ABOVE: ENDURA+ 6 MM Btu/hr
RIGHT: ENDURA+ 3 MM Btu/hr



- ▲ All deflection from heat exchanger expansion is absorbed externally by Fulton's patent-pending stress reliever.





INSTALLATION SIMPLIFIED

- ▼ VARIABLE PRIMARY FLOW DESIGN
- ▼ REDUCED INSTALLATION COSTS
- ▼ NO DEDICATED BOILER PUMPS
- ▼ SMALLEST SERVICE FOOTPRINT
- ▼ GREATEST CONDENSING POTENTIAL

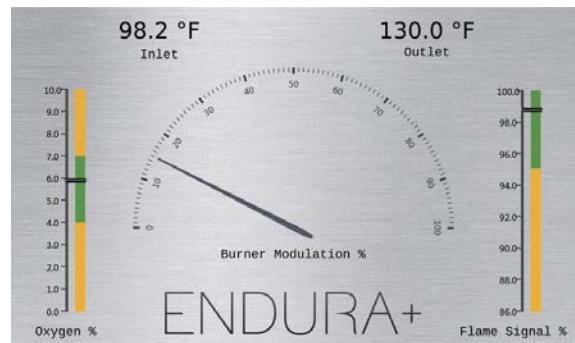
ENDURA+ boilers are designed for the simplified piping method of variable primary flow. This enhances temperature control, reduces design complexity, and maximizes condensing boiler efficiencies by delivering the lowest temperature water directly to the boiler rather than blending with heated water in a primary-secondary manifold.

ADVANCED CONTROL TECHNOLOGY

POWERFUL & INTUITIVE INTERFACE

Engineered by Fulton, the ENDURA+ control maximizes performance and facilitates operation. The 7-inch touchscreen allows rapid access to operating parameters and configuration settings. It efficiently sequences up to 10 boilers and eliminates the need for a master boiler or standalone panel. If a boiler is powered off, the plant seamlessly transitions to the next available stage with zero downtime.

- ▶ **SIMPLIFIED OPERATION**
- ▶ **OUTDOOR RESET; SETBACK MODE**
- ▶ **MOTORIZED ISOLATION VALVE CONTROL**
- ▶ **VARIABLE SPEED PUMP CONTROL**
- ▶ **MODBUS; BACNET CONFIGURABLE**



▲ *A convenient interface designed for ease of operation*

RELIABLE & EFFICIENT COMBUSTION

HIGH-PRECISION BURNER CONTROL

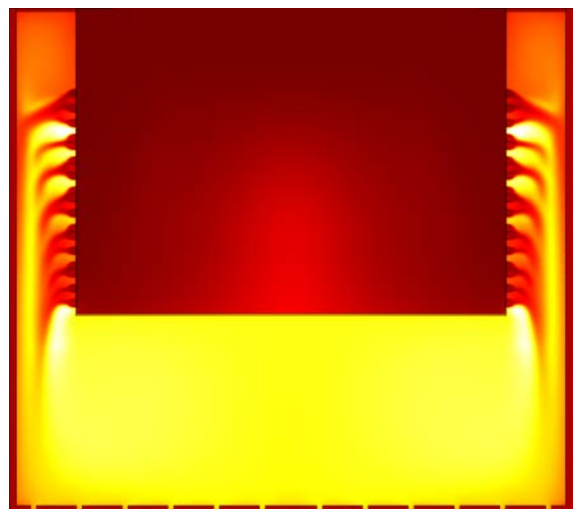
Featuring up to 15:1 turndown, Fulton's patent-pending higher-pressure combustion technology utilizes the surgical precision of independent air and gas servo motors; it outperforms all conventional platforms in reliability and repeatability.

- ▶ **FIVE YEAR BURNER WARRANTY**
- ▶ **LONGER VENT RUNS; SMALLER DIAMETERS**
- ▶ **NO_x LEVELS CONFIGURABLE TO <9 PPM**

CLOSED LOOP O₂ COMPENSATION

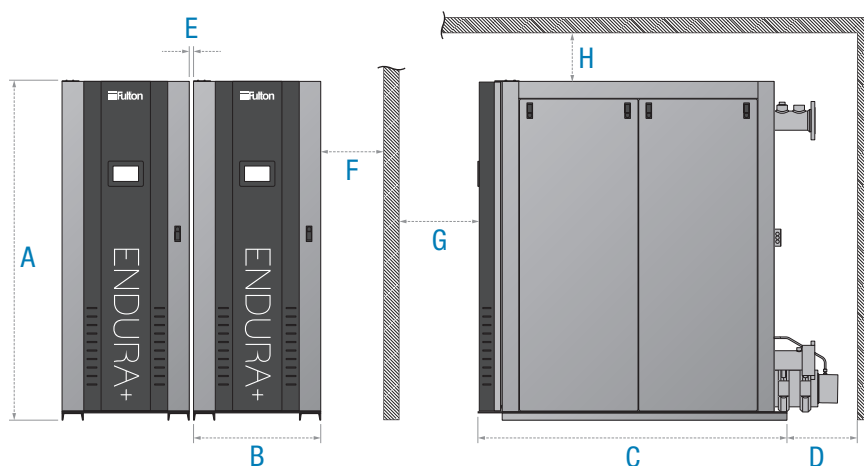
The fuel/air ratio is continuously tuned in real-time, automatically adjusting for seasonality; boosting both efficiency and flame stability.

- ▶ **MAINTAINS IDEAL FLUE GAS OXYGEN LEVELS**
- ▶ **MAXIMIZES CONDENSING POTENTIAL**
- ▶ **AUTO-OPTIMIZES COMBUSTION EFFICIENCY**



▲ *Unprecedented combustion innovation using Computational Fluid Dynamics*

MODEL:		EDR+2500	EDR+3000	EDR+4000	EDR+5000	EDR+6000
Specifications						
Input Capacity	MM BTU/Hr	2.5	3.0	4.0	5.0	6.0
Water Content	GAL	80	80	180	180	180
Pressure Drop at 20°F ΔT	PSI	3.2	5.0	2.8	4.1	6.0
Operating Weight	LBS	3,267	3,267	6,540	6,588	6,593
AHRI Thermal Efficiency	%	96.8	96.3	94.5	94.6	95.9
Turndown Ratio		12.5:1	15:1	10:1	12.5:1	15:1
Dimensions/Clearances						
(A) Boiler Height	IN	80	80	79	79	79
(B) Boiler Width	IN	30	30	34	34	34
(C) Boiler Depth	IN	73	73	116.2	116.2	116.2
(D) Rear Clearance	IN	24	24	36	36	36
(E) Between Pair Clearance	IN	1	1	1	1	1



Clearances (cont'd)		
(F)	IN	24
(G)	IN	36
(H)	IN	18

NOTE: All 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. Graphics contained in this brochure may not be representative of actual product.

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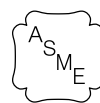
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