

EFW SERIES

High Efficiency Condensing Stainless Steel Gas Boilers



Make the right move.

When it comes to home heating, the EFW Series delivers optimum efficiency and reliability. With a range of sizes from 285,000–399,000 BTU/h and modulation up to 10:1 turndown, this modulating, condensing, stainless steel, wall mount boiler is perfect for almost any home. Installers can rely on installation flexibility with top or bottom supply and return connections, top or bottom gas connections, vent runs of up to 150ft for the 285 and 100ft for the 340–399 and five vent termination options.

Maximize efficiency and fuel savings

Engineered to the highest of standards, the EFW Stainless Steel Fire Tube Heat Exchanger can deliver up to 95% AFUE and 95.4 thermal efficiency and a fully modulating burner.

Dependable performance

The industry-leading ASME certified fire-tube exchanger is constructed of stainless steel for better corrosion resistance. Each boiler is factory tested to ensure top performance. The EFW, combined with HTP's industry leading customer and technical service departments, results in a sure-fire winning choice.



5-Year Parts/ 15 Year Heat Exchanger Warranty*

- Cascading up to 8 units
- Stainless steel down-fired fire tube design
- Three models from 285,000 to 399,000 BTU/h
- Full modulation up to 10:1 turndown
- Advanced Honeywell Sola Boiler Controller with backlit screen display
- Vent runs of up to 150ft for the 285 and 100ft for the 340 - 399
- PVC, CPVC, Polypropylene or Stainless Steel venting materials

*With online registration. See product warranty for details.



 **ARISTON**
GROUP

EFW SERIES

High Efficiency Condensing
Stainless Steel Gas Boilers

Boiler Features

- Easy to install and maintain
- Down-fired, Fire Tube stainless steel boiler
- Stainless steel internal piping and connections
- Certified internal low water cutoff with test button
- Fully-modulating combustion system
- Condensate pump electrical receptacle
- Built-in gas drip leg
- Wall-mount configuration with optional floor stand
- Flexible venting orientation with flue test port
- On/off power service switch, built in
- High-energy external spark generator for reliable ignition
- ASME certified boiler
- Certified ANSI Z21.13
- Limited lifetime warranty

Control Features

- Accurate control with Honeywell Sola Boiler Control with backlit screen displaying system info with easy step-by-step programming
- Outdoor reset
- Built in lead lag multiple boiler cascade control handles up to 8 EFW boilers.
- 4-20 mA input for external temperature or burner power control
- Can control three separate temperature setpoints
- Controls up to three circulators
 - a. DHW Circulator
 - b. Boiler Circulator
 - c. System Circulator
- Built in boiler diagnostics
- Built in DHW and space heating control
- Adjustable Warm Weather Shutdown
- Alarm contacts
- Freeze protection



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In accordance with our company policy of ongoing product improvement, HTP reserves the right to make changes without prior notice. Preliminary product specifications.

Down-fired Fire Tube – The EFW heat exchanger is ASME certified, burner is down-fired. The tubes have a dimpled design to optimize heat transfer, which increases energy efficiency. The Fire Tubes provide generous space for flue gas to pass, and significantly reduce the need for cleaning due to the vertical configuration.

Flexibility – The design of the EFW offers more flexibility than any other boiler on the market, with vent runs of up to 150ft for the 285 and 100ft for the 340-399, five vent termination options, 2" optional venting on some models and plumbing and gas connections at either top or bottom.

User Interface – Provides easy navigation to all of the controller's parameters and setpoints. The backlit screen continuously displays system information to ensure safe and efficient operation.

The Control – The HTP EFW boiler has an advanced Honeywell control that provides easy navigation and offers complete auto-diagnostics. All the information needed to set up, monitor boiler functions and service is easy to access. The easy to use control allows for multiple circulators and temperature zones and has an integrated cascade feature to join multiple boilers.

Specifications

Description	EFW-285WBN	EFW-340WBN	EFW-399WBN
CSA Input Modulation [MBH] ¹	28.5-285	39.9-340	39.9-399
Heating Capacity [MBH] ^{1'2}	263	324	380
Net AHRI Rating, Water [MBH] ^{1'2}	228	282	330
AFUE [%] ²	95	NA	NA
Thermal Efficiency [%] ²	NA	95.4	95.4
Water Connections, NPT [in.]	1-1/4 (Male)	1-1/2 (Male)	1-1/2 (Male)
Gas Connection, NPT [in.]	3/4 (Male)	3/4 (Male)	3/4 (Male)
Vent/Air Intake Pipe Diameter [in.] ³	3	4	4
Cabinet Height [in.]	33-3/8	36-5/8	36-5/8
Cabinet Width [in.]	21-1/4	25-1/4	25-1/4
Cabinet Depth [in.]	18-5/8	20	20
Approx. Boiler Weight with Water [lbs.]	180	250	250
Approx. Boiler Water Content [Gal-lons]	4.9	7.1	6.4
Electrical Rating	120V/1Ph/60Hz/less than12A		

1. Listed Input and Output ratings are at minimum vent lengths at an altitude of 0-2000ft. Numbers will be lower with longer venting and/or altitudes greater than 2000ft.
2. Ratings based on standard test procedures prescribed by the U.S. Department of Energy; certified by AHRI.
3. EFW units require a special venting system, use only vent materials and methods detailed in these instructions.

High Altitude Operation –The EFW is designed to operate at its maximum listed capacity in installations located at 0-2000ft above sea level. Since the density of air decreases as elevation increases, maximum specified capacity should be de-rated for elevations above 2000 ft as per below.

Elevations	2001 ft.	3000 ft.	4000 ft.	4500 ft.	5000 ft.
In Canada ¹	de-rate by 10%	de-rate by 10%	de-rate by 10%	de-rate by 10%	de-rate % may vary
In USA ²	-	de-rate by 12%	de-rate by 16%	de-rate by 18%	de-rate by 20%

1. Canada: at altitudes between 2000-4500 ft, de-rate by 10%. Consult local authorities for de-rating capacities for altitudes above 4500ft.
2. USA: De-rate capacity by 4% for every 1000 ft if altitude is above 2000 ft.

Combustion – At elevations above 2000 feet, the combustion of the boiler must be checked with a calibrated combustion analyzer to ensure safe and reliable operation. **It is the Installers responsibility to check the combustion and to adjust the combustion in accordance with Section 9.0 of the Manual.** Failure to follow these instructions may result in property damage, serious injury, or death.

