

HIGH EFFICIENCY BOILERS

FTXLTM
FIRE TUBE BOILER

SMART SYSTEMTM

CON-X-US[®] REMOTE CONNECT CAPABLE

CASCADING SEQUENCER

LOCH-N-LINKTM USB DRIVE SETUP

5 INPUTS FROM 399,999 TO 850,000 BTU/HR

UP TO 10:1 TURNDOWN RATIO

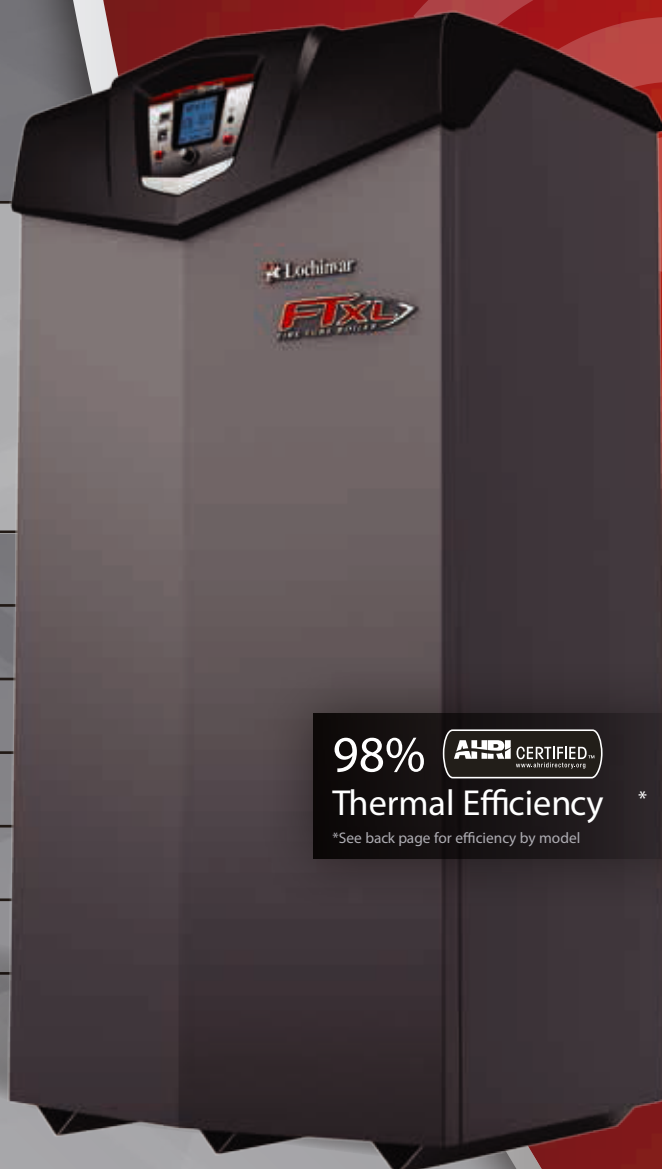
COMMON VENT AND PVC DIRECT-VENTING

FLOW RATES FROM 10 TO 150 GPM

SMALL 6.2 SQ. FT. FOOTPRINT

4 PUMP CONTROL

WIRELESS OUTDOOR SENSOR CAPABLE



98% **AHRI CERTIFIED**[®]
Thermal Efficiency *

*See back page for efficiency by model

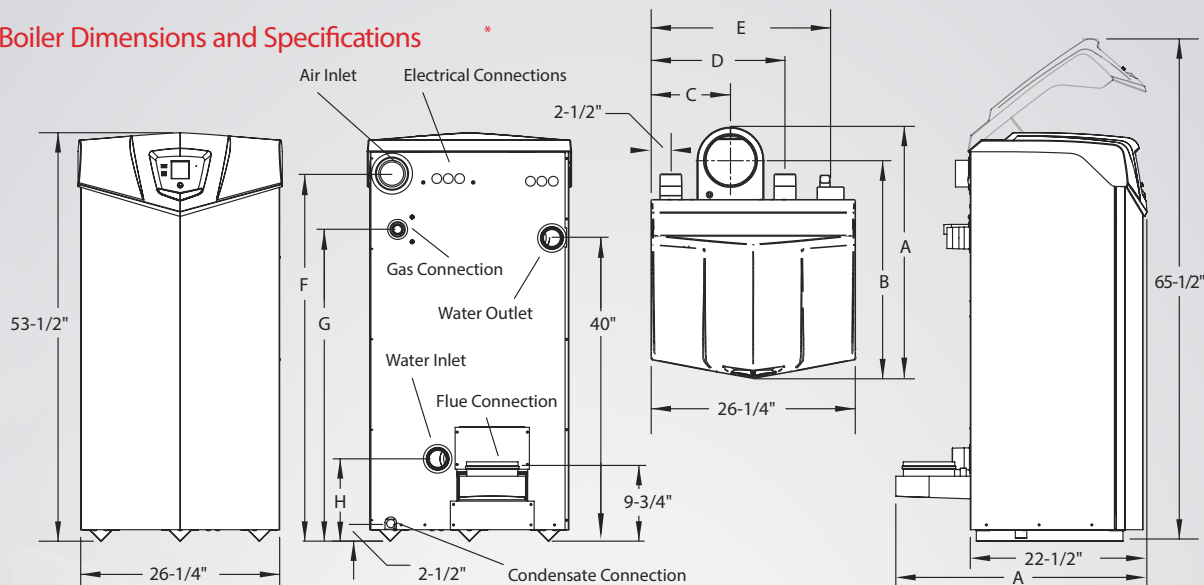


Importation and
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Lochinvar[®]
High Efficiency Water Heaters, Boilers and Pool Heaters

FTXL™ Boiler Dimensions and Specifications



FTXL Boiler



Dimensions and Specifications

Model Number	Input		Thermal Efficiency	Gross Output MBH	NET AHRI		Flow (GPM) Min	Flow (GPM) Max	HEX Water Volume	A	B	C	D	E	F	G	H	Water Conn.	Vent Size	Air Intake	Gas Conn.	Shipping Wt. (lbs.)
	Min MBH	Max MBH			Rating MBH	Turn down																
FTX400(N,L)40.0	399.9		98.0%	392	341	10:1	10	105	13	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	435
FTX500(N,L)50.0	500.0		97.7%	489	425	10:1	15	105	12	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	460
FTX600(N,L)60.0	600.0		97.5%	585	509	7:1	15	105	12	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	470
FTX725(N,L)72.5	725.0		97.2%	705	613	7:1	20	150	17	33"	28-1/2"	10-1/2"	17-1/2"	23-1/2"	48-1/2"	41-1/4"	11"	2-1/2"	6"	4"	1"	510
FTX850(N,L)85.0	850.0		97.0%	825	717	7:1	25	150	16	33"	28-1/2"	10-1/2"	17-1/2"	23-1/2"	48-1/2"	41-1/4"	11"	2-1/2"	6"	4"	1"	535

*Information subject to change without notice. Dimensions are in inches. Select "N" or "L" for Natural or LP Gas. Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1 lb/in. var should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, piping systems, etc. *The ratings have been determined under the provisions governing forced draft burners.

Smart System Features

- > Smart System Digital Operating Control
 - Multi-Color Graphic LCD Display w/Navigation Dial
- > Loch-N-Link™ USB Thumb Drive Port for Easy Programming
- > Cascading Sequencer with Built-in Redundancy
 - Selectable Cascade Type:
 - Lead Lag/Efficiency Optimization
 - Multiple Size Boilers
 - Front-End Loading
- > 3 Reset Temperatures Inputs w/Independent Outdoor Reset Curves for Each Outdoor Sensor
- > Four-Pump Control
 - System Pump with Parameter for Continuous Operation
 - Boiler Pump with Variable-Speed Control
 - Domestic Hot Water Boiler Pump
 - Domestic Hot Water Recirculation Pump Control with Sensor
- > Building Management System Integration
 - 0-10 VDC Input to Control Modulation or Setpoint
 - 0-10 VDC Input from Variable-Speed System Pump
 - 0-10 VDC Modulation Rate Output Signal
 - 0-10 VDC Enable/Disable Signal
- > Programmable System Efficiency Optimizers
 - Space Heating Night Setback
 - DHW Night Setback
 - Anti-Cycling
 - Ramp Delay
 - Boost Time and Temperature
- > High-Voltage Terminal Strip
 - 120 VAC/60 Hertz/1 Phase
 - Pump Contacts for 3 Pumps

- > Low-Voltage Terminal Strip
 - Building Recirculation Pump Start/Stop
 - Proving Switch Contacts
 - Flow Switch Contacts
 - Alarm Contacts
 - Runtime Contacts
 - 3 Space Heat Thermostat Contacts
 - Tank Thermostat Contacts
 - System Sensor Contacts
 - Tank Sensor Contacts
 - Cascade Contacts
 - 0-10 VDC BMS Contacts
 - 0-10 VDC Boiler Rate Output Contacts
 - 0-10 VDC Boiler Pump Speed Contacts
 - 0-10 VDC System Pump Speed Contacts
 - ModBus Contacts
- > Time Clock
- > Data Logging
 - Ignition Attempts
 - Last 10 Lockouts
 - Space Heat Run Hours
 - Domestic Hot Water Run Hours

Standard Features

- > 97%-98% Thermal Efficiency
- > Modulating Burner with up to 10:1 Turndown
 - Direct Spark Ignition
 - Low NOx Operation
 - Sealed Combustion
 - Low Gas Pressure Operation
- > Stainless Steel Fire-Tube Heat Exchanger
 - ASME-Certified, "H" Stamped
 - 160 psi Working Pressure
 - 50 psi Relief Valve
 - Combustion Analyzer Test Port
 - Fully Welded Design

- > Vertical and Horizontal Direct Vent
 - Direct Vent up to 100 feet
 - PVC, CPVC, Polypropylene or AL29-4C
 - Factory Supplied Sidewall Vent Termination
- > Smart System Control
- > Other Features
 - On/Off Switch
 - Adjustable High Limit with Manual Reset
 - Automatic Reset High Limit
 - Manual Reset Low Water Cutoff
 - Flue Temperature Sensor
 - Low Air Pressure Switch
 - Temperature and Pressure Gauge
 - Condensate Trap
 - Zero Service Clearances
 - 10-Year Limited Warranty (See Warranty)
 - Custom Maintenance Reminder with Contact Info
 - Password Security
 - Customizable Freeze Protection Parameters

Optional Equipment

- CON-X-US™ Remote Connectivity
- Motorized Isolation Valve
- Wireless Outdoor Temperature Sensor
- Multi-Temperature Loop Control
- Variable-Speed Boiler Circulator
- Constant-Speed Boiler Circulator
- ModBus Communication
- Alarm Bell
- Condensate Neutralization Kit
- Concentric Vent Kit (FTX400-FTX600)
- BMS Gateway to BACnet or LonWorks
- High and Low Gas Pressure Switches w/Manual Reset (FTX500-FTX850)
- > Firing Controls
 - M9-Standard Construction
 - M13-CSD-1/FM/GE Gap (FTX500-FTX850)



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