HIGH EFFICIENCY COMMERCIAL BOILERS





CON·X·US ® REMOTE CONNECT

MODBUS AND BACnet MSTP PROTOCOL

CASCADING SEQUENCER WITH CASCADE REDUNDANCY

12 INPUTS FROM 750,000 TO 6.0 MILLION BTU/HR

UP TO 25:1 TURNDOWN RATIO

DIRECT-VENTING UP TO 100 FEET USING PVC, CPVC, POLYPROPYLENE OR STAINLESS STEEL

FLEXIBLE FLOW RATES UP TO 600 GPM

FRONT END LOADING CAPABILITY

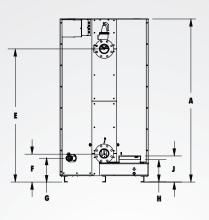




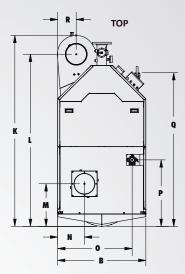


SIDE





BACK



Dimensions and Specifications Crest Heating Boiler Output Rating down Intake Number Min Max MRH 55-1/2" 57-5/8" 66-1/8" 11-7/8" 11-3/8" 11-1/4" 12-1/2" 55" 56-1/2" 57-5/8" 66-1/8" 11-7/8" 11-3/8" 11-1/4" 12-1/2" 56" FB*0751 50 750 96.2% 722 627 15:1 78" 8-3/4" 26-3/4" 23-3/4" 49-1/2" 7-3/8" 1-1/4" FB*1001 50 1,000 96.2% 962 837 20:1 78" 30" 51" 13" 8-3/4" 26-3/4" 23-1/8" 49-1/2" 6-1/2" 1-1/4" 6" 6" 1,838 1,596 20:1 78" 56-1/2" 57-3/4" 66-1/8" 11-7/8" 11-3/8" 11-1/4" 12-1/2" 56" 51-3/8" 13" 8-3/4" 26-3/4" 21-5/8" 49-1/2" 6-1/2" 1-1/4" 3″ 8" FB*1251 63 1,250 96.2% 1,203 1,046 6" 1,975 1,648 FB*1501 60 1,500 96.2% 1,443 1,255 25:1 65-3/8" 12-3/8" 11-3/8" 11-1/4" 12-1/2" 67-1/4" 62-3/8" 15-7/8" 9" 26-7/8" 27-7/8" 59-1/4" 5-1/8" 1-1/2" 2,307 FB*1751 70 1,750 96.2% 1,684 1,464 25:1 78" 65-3/8" 12-3/8" 11-3/8" 11-1/4" 12-1/2" 65-3/4" 61-1/2" 15-7/8" 9" 27" 27-1/8" 58-3/4" 5-1/8" 1-1/2" 4" 8" 66-1/4" 68" 8" 2,458 2,017 61-1/2" 15-7/8" 9" 26-3/4" 58-3/4" 5-1/8" 1-1/2" " 32" 71" 7-1/4" 2" FB*2001 80 1,999 96,2% 1,924 1,673 25:1 78" 66-1/2" 68" 65-3/8" 12-3/8" 11-3/8" 11-1/4" 12-1/2" 66" 4" 8" 2.570 2.087 83-3/4 83-3/4 63-3/4 13-1/2 11-1/4 10-1/2 12-1/4 83-1/4 76-1/4 19-3/4 9-1/4 28-3/4 32" 83-3/4 83-3/4 63-3/4 13-1/2 11-1/4 10-1/2 12-1/4 83-1/4 76-1/4 19-3/4 9-1/4 28-3/4 32" FB*2501 125 2.500 96% | 2.400 | 2.087 | 20:1 | 77-3/4" 35" 4" 8" 3.600 2.577 FB*3001 150 3,000 96% 2,880 2,504 20:1 77-3/4" 35" 7-1/4" 4" 10" 10" 3,900 2,881 FB*3501 753 5,00 95% 2,800 2,504 251 77-3/4* 55 85-3/4 15-3/4* 15-1/2* 16-3/4* 15-1/2* 10-3/4* 15-1/2* 10-3/4* 15-1/2* 10-3/4* 15-1/2* 10-3/4* 13-1/2* 31-3/4* 31-1/2* 31-3/4* 31-1/2* 21-1/2* 4* 10* 10* 5,500 2,801 5,60 5,00 4,99 96% 4,800 4,173 10:1 77-3/4* 45-1/2* 10-1/2* 65-3/4* 65-1/4* 10-1/2* 10-3/4* 12-1/2* 10-3/4* 12-1/2* 10-3/4* 12-1/2* 10-3/4* 13-1/2* 31-3/4* 31-1/2* 31-3/4* 31-1/2* 21-1/2* 4* 10* 10* 10* 4,600 3,805 5,60 5,00 4,99 96% 4,800 4,173 10:1 77-3/4* 45-1/2* 10-1/2* 10-3/4* 11-1/2* 10-3/4* 12-1/2* 10-3/4* 12-1/2* 10-3/4* 12-1/2* 10-3/4* 13-1/2* 31-3/4* 31-1/2* 31-3/

Notes: "Insert "N" for natural gas, "L" for LP gas models and "D" for dual fuel.Indoor installation only. Information subject to change without notice. Lochinvar should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc. The ratings have been determined under the provisions governing forced draft burners. The Net AHRI water ratings shown are based on a piping and pickup allowance of 1.15.

Smart Touch [™] Features

CON-X-US Remote Connect SMART TOUCH Touchscreen Operating Control

Full-Color 8" Touchscreen LCD Display Built-in Cascading Sequencer for up to 8 Boilers > Built-in Redundancy > Cascade Multiple Sized Boilers

- > Lead/Lag Cascade > Efficiency Optimized Cascade

> Efficiency Optimized Cascade Front-End Loading Capability with Copper-Fin II * and Power-Fin * Boilers Building Management System Integration with 0-10 VDC Input BACHET MSTP Communications

Modbus Communication

Outdoor Reset Control with Outdoor Air Sensor Password Security

Domestic Hot Water Prioritization

- DHW tank piped with priority in the boiler loop
 DHW tank piped as a zone in the system with the pumps controlled by the Smart System
 DHW Modulation Limiting
 Separately Adjustable SH/DHW Switching Times

Low Water Flow Safety Control & Indication

Inlet & Outlet Temperature Readout Freeze Protection

Service Reminder

Time Clock Data Logging

- Hours Running, Space Heating
 Hours Running, Domestic Hot Water
 Hours Running, Modulation Rate
- Ignition Attempts
- > Last 10 Lockouts

Programmable System Efficiency Optimizers

- Night Setback
- > Anti-Cycling > Outdoor Air Reset Curve
- > Ramp Delay > Boost Temperature & Time
- > Modulation Factor Contro
- Three Pump Control
 > System Pump

 - > Boiler Pump
 - > Domestic Hot Water Pump

- High-Voltage Terminal Strip > 120 VAC / 60 Hertz / 1 Phase Power Supply (FB 0751-2001)
 - 208 VAC/ 60 Hertz/ 3 Phase Power Supply (FB 2501-3501) > 480 VAC/60 Hertz/3 Phase Power Supply
 - (FB 4001-6001)

System Pump, Boiler Pump and DHW Pump Power Low-Voltage Terminal Strip

- > 24 VAC Auxiliary Device Relay > Auxiliary Proving Switch Contacts > Alarm on Any Failure Contacts
- Runtime Contacts
- DHW Thermostat Contacts Unit Enable/Disable Contacts
- System Sensor Contacts
 DHW Tank Sensor Contacts
- **Outdoor Air Sensor Contacts**
- > Cascade Contacts
- > 0-10 VDC BMS External Control Contact
- > 0-10 VDC Variable Speed Boiler Pump Control Contact

Optional Equipment Alarm Bell

BMS Gateway - BACnet IP or LonWorks Wireless Outdoor Temperature Sensor Condensate Neutralization Kit Common Vent Kits Damper Motorized Isolation Valve Variable Speed Boiler Pump Electrical Options (Shipped Loose):

- FB 0751-2001 > 208V/1Ø/60Hz → 120V/1Ø/60Hz
- > 480V/1Ø/60Hz → 120V/1Ø/60Hz > 600V/1Ø/60Hz → 120V/1Ø/60Hz
- FB 2501-3501
- 480V/3Ø/60Hz → 208V/3Ø/60Hz $> 600V/3Ø/60Hz \rightarrow 208V/3Ø/60Hz$
- FB 4001-6001 > 600V/3Ø/60Hz → 480V/3Ø/60Hz

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Codes & Registrations
ASME Certified, "H" Stamp / National Board
California Code Compliant CSD1 / Factory Mutual / GE Gap Compliant Canadian Registration Number (CRN)
South Coast Air Quality Management District Qualified (FB 0751-2001)

Standard Features

Up to 96.2% Thermal Efficiency Proof of Closure Valve (6001) Modulating Burner with up to 25:1 Turndown Direct-Spark Ignition Low NOx Operation Sealed Combustion Air Inlet Filter w/Replacement Reminder Low Gas Pressure Operation Vertical and Horizontal Direct Venting

- > Direct Vent up to 100 Feet
- > PVC, CPVC, Polypropylene or AL29-4C (FB 0751-3501) > AL29-4C (FB 0751-6001)

ASME "H" Stamped Heat Exchanger

316L Stainless Steel Fire Tubes 160 psi Working Pressure

On/Off Switch

Adjustable High Limit with Manual Reset Low Water Cutoff with Manual Reset & Test

High & Low Gas Pressure Switches w/Manual Reset Low Air Pressure Switches Condensate Trap w/Blocked Drain Switch

Drain Valve System Sensor Outdoor Air Sensor

Inlet & Outlet Temperature Sensors

High-Voltage Terminal Strip Low-Voltage Terminal Strip Downstream Gas Test Cocks 50 psi ASME Relief Valve

Temperature & Pressure Gauge
Zero Clearances to Combustible Materials
High Altitude Models Available

10-Year Limited Warranty (See Warranty for Details) 1-Year Warranty on Parts (See Warranty for Details)

