CREST® BOILER DIMENSIONS AND SPECIFICATIONS
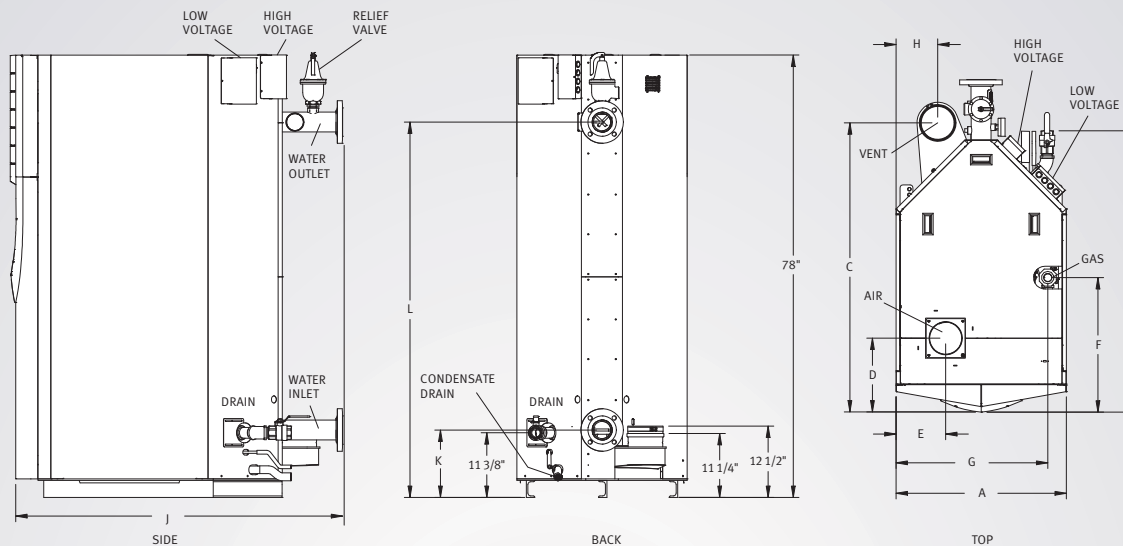
Model Number	Input MBH Min	Input MBH Max	AHRI Thermal %	Output MBH	Net AHRI Rating MBH	Turndown	A	B	C	D	E	F	G	H	J	K	L	Gas Conn.	Water Inlet/ Outlet	Air Intake	Vent Size	Oper. Weight	Ship. Weight
FBN0751	50	750	96.2%	722	627	15:1	30"	49-1/2"	51"	13"	8-3/4"	23-3/4"	26-3/4"	7-3/8"	57-5/8"	11-7/8"	66-1/8"	1-1/4"	3"	6"	6"	1,768	1,560
FBN1001	50	1,000	96.2%	962	837	20:1	30"	49-1/2"	51"	13"	8-3/4"	23-1/8"	26-3/4"	6-1/2"	57-5/8"	11-7/8"	66-1/8"	1-1/4"	3"	6"	6"	1,838	1,596
FBN1251	63	1,250	96.2%	1,203	1,046	20:1	30"	49-1/2"	51-3/8"	13"	8-3/4"	21-5/8"	26-3/4"	6-1/2"	57-3/4"	11-7/8"	66-1/8"	1-1/4"	3"	6"	8"	1,975	1,648
FBN1501	60	1,500	96.2%	1,443	1,255	25:1	30"	59-1/4"	62-3/8"	15-7/8"	9"	27-7/8"	26-7/8"	5-1/8"	68"	12-3/8"	65-3/8"	1-1/2"	4"	8"	8"	2,307	1,961
FBN1751	70	1,750	96.2%	1,684	1,464	25:1	30"	58-3/4"	61-1/2"	15-7/8"	9"	27-1/8"	27"	5-1/8"	68"	12-3/8"	65-3/8"	1-1/2"	4"	8"	8"	2,458	2,017
FBN2001	80	1,999	96.2%	1,924	1,673	25:1	30"	58-3/4"	61-1/2"	15-7/8"	9"	26-3/4"	27"	5-1/8"	68"	12-3/8"	65-3/8"	1-1/2"	4"	8"	8"	2,570	2,087

NOTES: Indoor installation only. Change "N" to "L" for LP gas models and to "D" for dual fuel models. (Consult factory for availability of Dual Fuel models)

*Information subject to change without notice

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

**Front-End Loading Capability with Copper-Fin II®
and Power-Fin® Boilers**
**Building Management System Integration
with 0-10 VDC Input**
BACnet 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 Control

Three Pump Control
> System Pump
> Boiler Pump
> Domestic Hot Water Pump

High-Voltage Terminal Strip
> 120 VAC / 60 Hertz / 1 Phase Power Supply
> 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
SMART TOUCH PC Software
Common Vent Kits
Dual Fuel Gas Train
Motorized Isolation Valve
Variable Speed Boiler Pump
Electrical Options (Shipped Loose):
> 208V/3Ø/60Hz
> 480V/3Ø/60Hz
> 600V/3Ø/60Hz

CODES & REGISTRATIONS

ANSI Z21.13/CSA Certified
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
AHRI Certified

STANDARD FEATURES

96.2% Thermal Efficiency (AHRI)
Up to 99% Thermal Efficiency in Low-Temp. Applications
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
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
10-Year Limited Warranty (See Warranty for Details)
1-Year Warranty on Parts (See Warranty for Details)

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