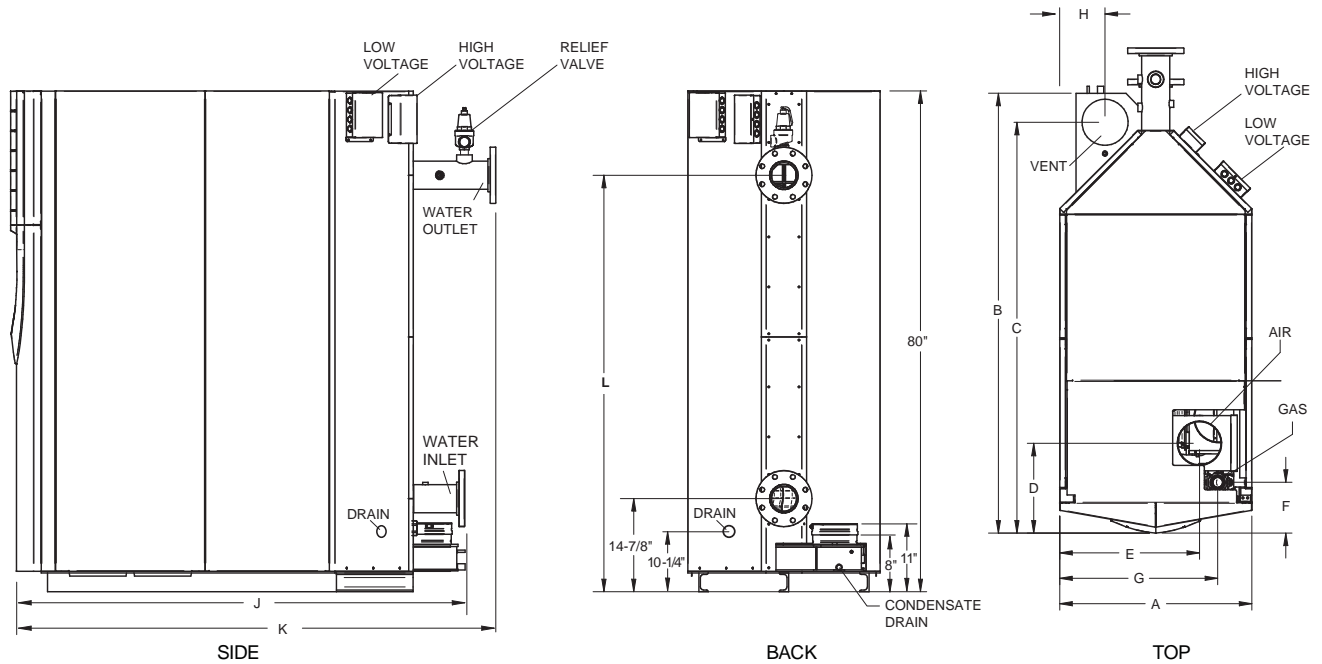




**CREST
COMMERCIAL BOILER
Submittal Sheet
FBN-Sub-07**

CREST COMMERCIAL CONDENSING BOILER

JOB NAME _____
LOCATION _____
ENGINEER _____
WHOLESALER _____
CONTRACTOR _____
MODEL NO. _____
TYPE GAS _____
EQUIPMENT TAG _____
NOTES



CREST HEATING BOILER							DIMENSIONS AND SPECIFICATIONS																
Model Number	Input MBH Min.	Input MBH Max.	AHRI Thermal %	Gross Output MBH	NET AHRI Rating MBH	Turn down [†]	A	B	C	D	E	F	G	H	J	K	L	Water Conn. Size	Gas Conn.	Air Inlet	Vent Size	Oper Wt. (lbs.)	Ship Wt. (lbs.)
FB*2500	125	2,500	92.0%	2,300	2,000	20:1	34-1/4"	76-3/8"	70-1/4"	17-3/4"	26-1/8"	9-3/4"	27-3/8"	6-1/4"	78"	83"	66-5/8"	4"	2"	8"	9"	3,652	2,560
FB*3000	150	3,000	92.0%	2,760	2,400	20:1	40-1/2"	83-5/8"	76-3/8"	17-3/8"	31-3/8"	9-7/8"	34-3/4"	8-1/2"	82-1/8"	87-1/8"	66-5/8"	4"	2"	10"	10"	4,126	2,920
FB*3500	200	3,500	92.0%	3,220	2,800	18:1	40-1/2"	83-1/4"	75-5/8"	17-1/4"	31-3/8"	9-7/8"	34-3/4"	7-1/4"	81-1/8"	86-1/8"	66-5/8"	4"	2"	10"	10"	4,744	3,225
FB*4000	335	4,000	93.0%	3,720	3,235	12:1	53-1/2"	109"	100-3/4"	31-1/4"	40-3/4"	14-1/2"	45-3/4"	12-1/2"	104-1/4"	108-1/4"	66-5/8"	4"	2-1/2"	12"	12"	6,900	4,750
FB*5000	500	5,000	93.0%	4,650	4,043	10:1	53-1/2"	107"	100-3/4"	28"	40-3/4"	11"	45-1/2"	9"	104"	108-1/4"	66-5/8"	4"	2-1/2"	14"	14"	8,000	5,550
FB*6000	600	6,000	92.0%	5,520	4,799	10:1	53-1/2"	107"	100-3/4"	28"	40-3/4"	11"	45-1/2"	9"	104"	108-1/4"	65-5/8"	6"	2-1/2"	14"	14"	8,100	5,650

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.
[†]Turndown rate reduced on LP gas models. Low NOx on FB2500-FB6000 models, consult factory.

*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.

CREST[®]

CONDENSING BOILER



CODES & REGISTRATIONS

ANSI Z21.13/CSA Certified
 ASME certified, "H" Stamp / National Board
 California Code Compliant
 CSD1 / Factory Mutual / GE Gap Compliant
 Bay Area Air Quality Management
 District Qualified
 Canadian Registration Number (CRN)
 AHRI Certified

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 Communication
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
Three Pump Control
 System Pump
 Boiler Pump
 Domestic Hot Water Pump
High-Voltage Terminal Strip
 120 VAC / 60 Hertz / 1 Phase Power Supply
 (FB2500-3500)

208 VAC / 60 Hertz / 3 Phase Power Supply
 (FB4000-6000)
 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

STANDARD FEATURES

Up to 93% Thermal Efficiency (AHRI)
 Up to 99% Thermal Efficiency in Low
 Temperature Applications
 Modulating Burner with up to 25:1 Turndown
 Direct-Spark Ignition
 Low-NOx Operation
 Sealed Combustion
 Proof of Closure Gas Valve (FBN6000)
 Low Gas Pressure Operation
 Vertical or Horizontal Venting
 Category IV Venting up to 100 Feet
 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)

OPTIONAL EQUIPMENT

Alarm Bell
 BMS Gateway - BACnet IP or LonWorks
 Condensate Neutralization Kit
 SMART TOUCH PC Software
 Common Vent Kits
 Dual Fuel Gas Train Air Filter Box
 Motorized Isolation Valve
 Variable Speed Boiler Pump
 75 psi ASME Relief Valve
 100 psi ASME Relief Valve
 125 psi ASME Relief Valve
 150 psi ASME Relief Valve

ELECTRICAL OPTIONS (Shipped Loose):

208V/3Ø/60Hz (Models FB2500-3500 only)
 480V/3Ø/60Hz
 600V/3Ø/60Hz



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