OUTDOOR CREST COMMERCIAL CONDENSING BOILER

Submittal Sheet

Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

MODELS OF 0751 - OF 6001

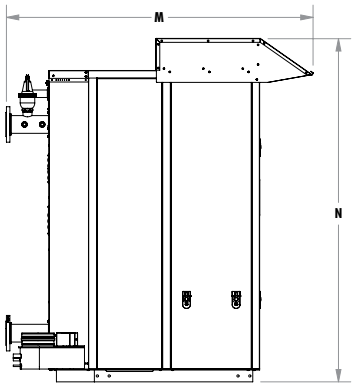
AHRI CERTIFIED™ www.ahridirectory.org

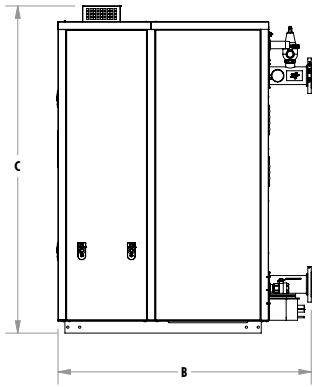
OFN-Sub-08

Job Name: _____ Location: _____ Contractor: _____ Type Gas: _____

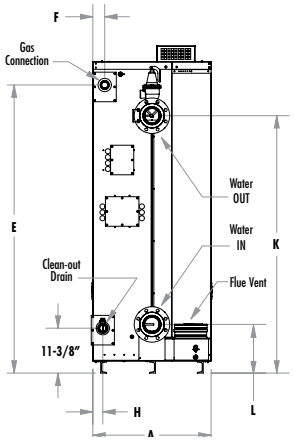
Engineer: _____ Model #: _____ Agent/Wholesaler: _____ Equipment Tag(s): _____

SIDES





BACK



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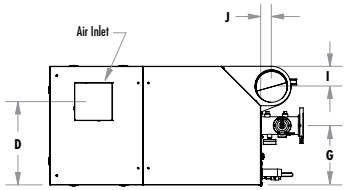

Outdoor Hood Not Shown in back and top views

JOB NOTES:

Notes:

- * *Insert "N" for natural gas, "L" for LP gas models*
- *Outdoor hood width matches the indoor product width.*
- *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.*

CREST HEATING BOILER

AHRI CERTIFIED

Model Number	Input Min MBH	Input Max MBH	Gross Output MBH	Net AHRI Rating MBH	Combustion Efficiency	Thermal Efficiency	Turndown Ratio	Flow Rate GPM Min	Flow Rate GPM Max	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Gas Conn.	Water Conn.	Air Inlet	Vent Size	Operating Wt. (lbs.)	Shipping Wt. (lbs.)
○ OF*0751	50	750	720	626	96.4%	96%	15:1	18	750	30"	53-7/8"	83"	21-1/4"	72-7/8"	3-1/4"	15"	3-1/4"	7-3/8"	3"	66-1/8"	11-7/8"	67-3/8"	87-1/8"	1-1/4"	3"	6"	6"	1,768	1,560
○ OF*1001	50	999	959	834	96.4%	96%	20:1	18	350	30"	53-7/8"	83"	21-1/4"	72-7/8"	3-1/4"	15"	4-1/2"	6-1/2"	4"	66-1/8"	11-7/8"	67-3/8"	87-1/8"	1-1/4"	3"	6"	6"	1,838	1,596
○ OF*1251	62.5	1,250	1,200	1,043	96.4%	96%	20:1	18	350	30"	53-7/8"	83"	21-1/4"	72-7/8"	3-1/4"	15"	3-3/4"	6-1/2"	3-1/8"	66-1/8"	11-7/8"	67-3/8"	87-1/8"	1-1/2"	3"	6"	8"	1,975	1,648
○ OF*1501	60	1,500	1,440	1,252	96.4%	96%	25:1	25	350	30"	63-7/8"	83"	21"	70"	3"	15"	3-1/2"	5-1/8"	3-7/8"	65-3/8"	12-3/8"	77-3/8"	87-1/8"	1-1/2"	4"	8"	8"	2,307	1,961
○ OF*1751	70	1,750	1,680	1,461	96.4%	96%	25:1	25	350	30"	64-3/8"	83"	21"	70"	3"	15"	2-7/8"	5-1/8"	2-7/8"	65-3/8"	12-3/8"	77-3/8"	87-1/8"	1-1/2"	4"	8"	8"	2,458	2,017
○ OF*2001	80	1,999	1,919	1,669	96.4%	96%	25:1	25	350	30"	64-3/8"	83"	21"	70"	3"	15"	2-1/2"	5-1/8"	2-7/8"	65-3/8"	12-3/8"	77-3/8"	87-1/8"	1-1/2"	4"	8"	8"	2,570	2,087
○ OF*2501	125	2,500	2,400	2,087	96.1%	96%	20:1	25	350	37"	79-3/8"	83"	26-13/16"	73-1/16"	7-5/16"	18-9/16"	2-11/16"	8-7/16"	5-1/16"	63-13/16"	13-1/2"	92-3/4"	87-3/16"	2"	4"	8"	9"	3,600	2,577
○ OF*3001	150	3,000	2,883	2,507	96.1%	96%	20:1	25	350	37"	79-3/8"	83"	26-13/16"	73-1/16"	7-5/16"	18-9/16"	2-11/16"	8-7/16"	5-1/16"	63-13/16"	13-1/2"	92-3/4"	87-3/16"	2"	4"	10"	10"	3,900	2,881
○ OF*3501	175	3,500	3,364	2,925	96.1%	96%	20:1	45	350	42"	81-7/8"	83-1/8"	29-5/16"	73-5/16"	6-1/2"	21-1/16"	4-1/8"	8-7/8"	5-3/16"	63-1/2"	13-5/8"	95-7/16"	87-1/4"	2"	4"	10"	10"	4,600	3,218
○ OF*4001	333.3	3,999	3,843	3,342	96.1%	96%	12:1	45	350	48"	93-1/8"	83-1/8"	33-3/8"	74-11/16"	7-3/8"	24	7-1/8"	11-7/8"	5-1/16"	63-1/4"	13-3/8"	106-3/4"	87-1/4"	2-1/2"	4"	12"	12"	5,200	3,805
○ OF*5001	499.9	4,999	4,804	4,177	96.1%	96%	10:1	50	600	48"	94-1/16"	83-1/8"	33-3/8"	74-11/16"	7-5/8"	24-1/16"	5-9/16"	9-9/16"	4-1/16"	63-3/16"	14-7/8"	95-7/16"	87-1/4"	2-1/2"	6"	14"	14"	5,900	4,101
○ OF*6001	600	6,000	5,766	5,014	96.1%	96%	10:1	60	600	52-1/16"	96-1/8"	83-1/8"	35-3/8"	73-13/16"	7-7/16"	26-1/16"	6"	10-3/8"	4-1/2"	63-3/16"	14-7/8"	109-3/4"	87-5/16"	3"	6"	14"	14"	6,900	4,711

Information subject to change without notice. Dimensions shown are approximate and should not be used for construction purposes.

CREST®
CONDENSING BOILER

OUTDOOR CERTIFIED

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

CON·X·US® REMOTE CONNECT

MODBUS AND BACnet MSTP PROTOCOL

CASCADING SEQUENCER WITH CASCADE REDUNDANCY

UP TO 25:1 TURNDOWN RATIO

FLEXIBLE FLOW RATES UP TO 600 GPM

FRONT END LOADING CAPABILITY

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

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
- › 120V/1PH/60Hz Power Supply (OF 0751-2001)
- › 208V/3PH/60Hz Power Supply (OF 2501-3501)
- › 480V/3PH/60Hz Power Supply (OF 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

Codes & Registrations

ANSI Z21.13/CSA Certified

ASME Certified, "H" Stamp / National Board

California Code Compliant

CSD1 / Factory Mutual / GE Gap Compliant

South Coast Air Quality Management District Qualified & Energy Star Rated (OF 0751 - 2001)

AHRI Certified

Standard Features

Proof of Closure Valve (FB 6001)

Modulating Burner with up to 25:1 Turndown

Direct-Spark Ignition

Low NOx Operation

Sealed Combustion

Air Inlet Filter

Low Gas Pressure Operation

Vertical and Horizontal Direct Venting
- › Direct Vent up to 100 Feet
- › PVC, CPVC, Polypropylene or AL29-4C (FB 0751-4001)
- › 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

DESIGNED ★ ENGINEERED ★ ASSEMBLED
USA

ENERGY STAR
0751-2001

AHRI MEMBER

AHRI CERTIFIED™

ASME H

DESIGN CERTIFIED

SCCR of 5,000 A

10-Year Limited Warranty (See Warranty for Details)

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

Optional Equipment

- ☐ Alarm on Any Failure
- ASME Relief Valve Options:
- ☐ 75 psi ☐ 100 psi ☐ 125 psi ☐ 150 psi
- ☐ BMS Gateway - BACnet IP or LonWorks
- ☐ Condensate Neutralization Kit
- ☐ Common Vent Damper Kits
- ☐ Modbus Communication
- ☐ Motorized Isolation Valve (NEMA 4)
- ☐ Outdoor Hood Kit
- ☐ RealTime O_2 Feedback™
- ☐ Wireless Outdoor Temperature Sensor

Electrical Transformer Options (Shipped Loose):
- › OF 0751-2001
  - ☐ 208V/3PH/60Hz → 120V/1PH/60Hz
  - ☐ 480V/3PH/60Hz → 120V/1PH/60Hz
  - ☐ 600V/3PH/60Hz → 120V/1PH/60Hz
- › OF 2501-3501
  - ☐ 480V/3PH/60Hz → 208V/3PH/60Hz
  - ☐ 600V/3PH/60Hz → 208V/3PH/60Hz
- › OF 4001-6001
  - ☐ 208V/3PH/60Hz → 480V/3PH/60Hz
  - ☐ 600V/3PH/60Hz → 480V/3PH/60Hz

Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

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