

OUTDOOR CREST COMMERCIAL CONDENSING BOILER

Submittal Sheet



Lochinvar®

HIGH EFFICIENCY BOILERS & WATER HEATERS

MODELS
OF 0751 - OF 6001



OFN-Sub-07

Job Name: _____

Location: _____

Contractor: _____

Type Gas: _____

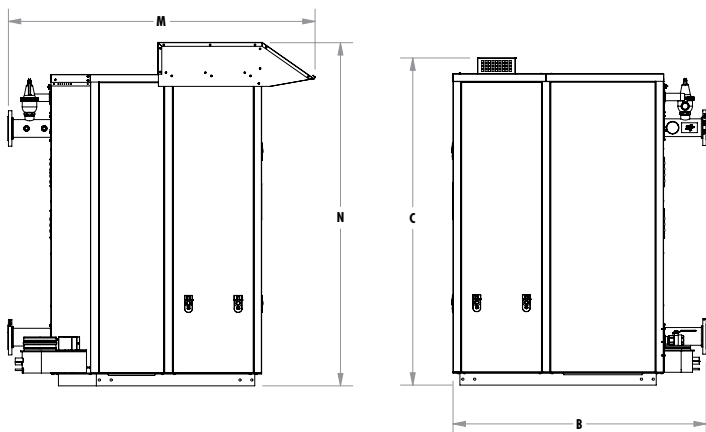
Engineer: _____

Model #: _____

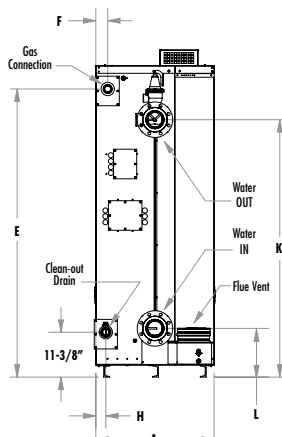
Agent/Wholesaler: _____

Equipment Tag(s): _____

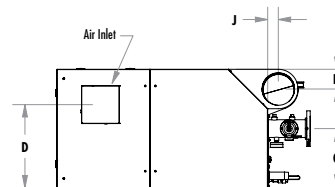
SIDES



BACK



TOP



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



Model Number	Input		Gross Output MBH	Net AHRI Rating MBH	Combustion Efficiency	Thermal Efficiency	Turndown Ratio	Flow Rate GPM		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.)
	Min MBH	Max MBH						Min	Max																				
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



Lochinvar[®]
HIGH EFFICIENCY BOILERS & WATER HEATERS

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



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

Short Circuit Current Rating Options:

OF 2501 - 6001

100,000 A

200,000 A

Motorized Isolation Valve (NEMA 4)

Outdoor Hood Kit

RealTime O₂ 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, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000

Lochinvar.com