



# Lochinvar®

HIGH EFFICIENCY BOILERS & WATER HEATERS

**NOBLE COMBI BOILER FLOOR**

*Submittal Sheet*

**NCF-Sub-01**

## NOBLE COMBI BOILER FLOOR

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Engineer: \_\_\_\_\_

Agent/Wholesaler: \_\_\_\_\_

Contractor: \_\_\_\_\_

Model No. \_\_\_\_\_

Btu/Hr  
INPUT: \_\_\_\_\_

Type Gas: \_\_\_\_\_

Btu/Hr  
OUTPUT: \_\_\_\_\_

Equipment Tag(s): \_\_\_\_\_

### NOTES:

#### SMART CONTROL™ FEATURES

- › **SMART CONTROL Digital Operating Control**  
LCD Display with words not codes
- › **Outdoor Reset Control with Outdoor Air Sensor**
- › **Programmable System Efficiency Optimizers**  
DHW Response Time  
DHW Pre Heat  
Outdoor Air Reset Curve
- › **Two Pump Control**  
System Pump  
Boiler Pump
- › **High-Voltage Junction Box**  
120 VAC / 60 Hertz / 1 Phase Power Supply
- › **Low Voltage Terminal Strip**  
Air Handler Interlock  
Flow Switch Contacts  
Low-Water Cutoff Connection  
System Sensor Contacts  
Outdoor Air Sensor Contacts  
Cascade Contacts
- › **Time Clock for Data Logging**  
Last 10 Lockouts
- › **Low-Water Flow Safety Control & Indication**
- › **Password Security**
- › **Built-in Cascading Sequencer for up to 8 units**

#### STANDARD FEATURES

- › **ENERGY STAR Most Efficient Recognition**
- › **95% DOE AFUE Efficiency**
- › **Modulating Burner with 10:1 Turndown**  
Direct-Spark Ignition  
Low-NOx Operation
- › **ASME Stainless Steel Heat Exchanger**  
50 psi Working Pressure w/ASME Relief Valve
- › **Vertical & Horizontal Direct-Vent**  
PVC, CPVC, Polypropylene or SS Venting  
up to 100 feet
- › **Condensate Trap**

#### › Other Features

- Automatic Reset High Limit
- Adjustable High Limit w/Manual Reset
- Built-in Circulating Pump
- Wall-Mount Bracket (NKC only)
- Zero Clearances to Combustible Materials
- 10-Year Warranty  
(See Warranty for Details)
- 5-Year Parts Warranty

#### OPTIONAL EQUIPMENT

- Low-Water Cutoff w/Manual Reset & Test
- Concentric Vent Kit
- Condensate Neutralization Kit
- Sidewall Vent Termination
- Wireless Outdoor Sensor
- Nat to LP Gas Conversion Kit
- Isolation/Flush Valves
- DHW Piping Kit (3/4" adapter kit required)
- Primary Secondary Piping Kit (1" adapter kit required)

#### FIRING CODES

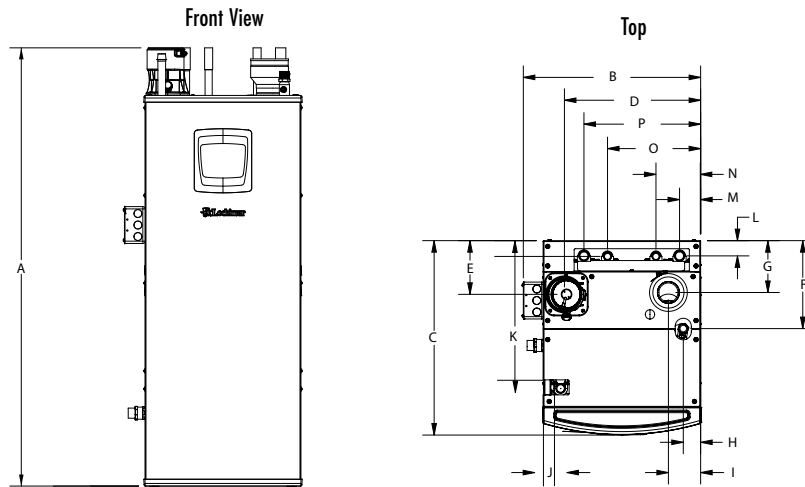
- › M9 Standard Construction/California Code

#### DHW Delivery (GPM)

Model	77° Temp. Rise	70° Temp. Rise
110	2.6	2.9
150	3.6	3.9
199	4.8	5.2



## NOBLE Combi Boiler Floor Dimensions & Specifications



Model Number	Input (MBH) Max.	Min.	AFUE%	Heating Capacity MBH	Net AHRI Rating MBH	A	B	C	D	E	F	G
NCF110N	110	11	95	102	89	47.5	19.25	21	14.75	6	9.5	5.75
NCF150N	150	15	95	139	121	47.75	21	21.25	5.75	5.75	9.75	14.75
NCF199N	199	19.9	95	185	161	47.75	21	21.25	5.75	6	10	14.5

H	I	J	K	L	M	N	O	P	Gas Conn.	Boiler Water Conn.	DWH Water Conn.	Air Inlet	Vent Size	Ship Weight
2	3.5	2	14.25	1.75	2.25	4.75	10	12.75	1/2	1	3/4	3	3	184
2.75	5.75	2	14.25	1.75	3.25	5.75	11	13.5	1/2	1	3/4	3	3	201
2.25	5.75	2	14.25	1.75	2.5	5.25	10.5	13	1/2	1	3/4	3	3	215

Notes: Indoor installation only. All information subject to change. Change "N" to "L" for LP gas models. \*The Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15.



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