



Lochinvar®

HIGH EFFICIENCY BOILERS & WATER HEATERS

OUTDOOR ARMOR™ CONDENSING WATER HEATER

Submittal Sheet

OAW-Sub-02

OUTDOOR ARMOR™ CONDENSING WATER HEATER

Job Name: _____ Model No. _____
Location: _____ Type Gas _____
Engineer: _____ Recovery Rate in GPH _____ @ _____ °F Rise
Agent/Wholesaler: _____ Equipment Tag(s): _____
Contractor: _____

NOTES:

Outdoor Standard Features

- › **AHRI Certified 96% Thermal Efficiency**
- › **Modulating Burner with 5:1 Turndown**
 - › Direct-Spark Ignition
 - › Low NOx Operation
 - › Sealed Combustion
 - › Low Gas Pressure Operation
- › **Stainless Steel Heat Exchanger**
 - › All Welded Construction, Gasketless Design
 - › 160 psi Working Pressure
 - › ASME Construction (286-801)
- › **Outdoor Rated Vent System**
 - › UV Resistant Polypropylene (151-601)
 - › Stainless Steel (701-801)
- › Natural to L.P. Conversion Kit
- › Stainless Steel Circulating Pump and Pump Cover
- › On/Off Switch
- › Flow Switch
- › ASME Temperature & Pressure Relief Valve (286-801)
- › Temperature & Pressure Gauge (501-801)
- › Downstream Test Valves (501-801)
- › Adjustable Leveling Legs
- › Tank Sensor
- › Adjustable High Limit w/ Manual Reset
- › Automatic Reset High Limit
- › Condensate Trap
- › Zero Clearances to Combustible Material
- › 5 Year Limited Warranty
(See Warranty for Details)
- › 1 Year Parts Warranty (See Warranty for Details)
- › **Firing Control System:** M9 Standard Construction

Smart System Features

- › **SMART SYSTEM Digital Operating Control**
- › Multi Color Graphic LCD Display
- › **Built-in Cascading Sequencer for up to 8 Water Heaters**
 - › Lead Lag
 - › Efficiency Optimization
 - › Front-End Loading Capability with CopperFin II
- › **Building Management System Integration**
 - › Modbus Communication (Optional)
 - › 0-10 VDC Input to Control Modulation or Set point
 - › 0-10 VDC Modulation Rate Output
 - › 0-10 VDC Input to Enable/Disable call for heat
- › Access to BMS Settings Through Graphic LCD Display
- › Low Water Flow Safety Control & Indication
- › Inlet & Outlet Temperature Sensors & Readout
- › Flue Temperature Sensor
- › Water Heater Pump Control
- › Pump Delay with Freeze Protection
- › Pump Exercise
- › Night Setback
- › Building Recirculation loop Pump Control*
- › Night Setback of Building Recirculation Loop*
- › Time Clock
- › **Maintenance Reminder**
 - › Ability to program contact name & number into display
- › **High Voltage Terminal Strip**
 - › 120 VAC / 60 Hertz / 1 Phase Power Supply
 - › Pump Control Contacts
 - › Water Heater Pump Control Contacts
 - › Building Recirculation Pump Control Contacts
- › **Low Voltage Terminal Strip**
 - › 24 VAC Auxiliary Device Relay
 - › Auxiliary Proving Switch Contacts
 - › Flow Switch Contacts
 - › Alarm on Any Failure Contacts
 - › Runtime Contacts
 - › Tank Sensor Contacts
 - › Cascade Contacts
 - › 0-10 VDC BMS External Control Contact
 - › 0-10 VDC Boiler Rate Output Contacts

*Exclusive to Lochinvar

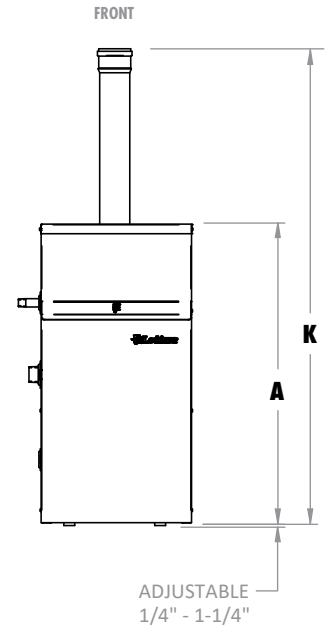
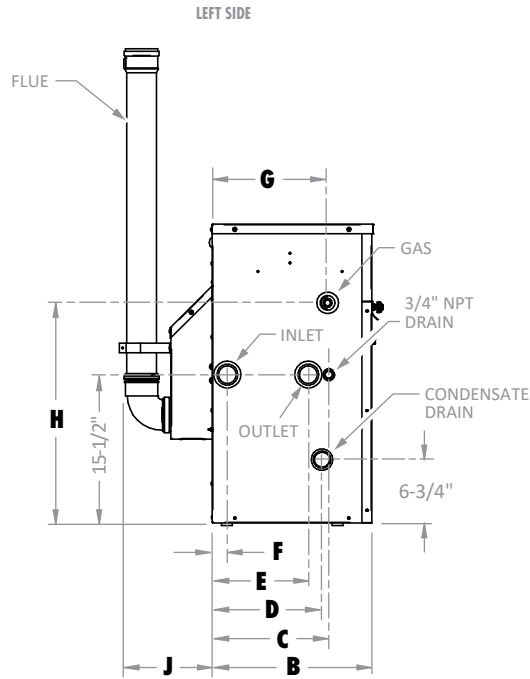
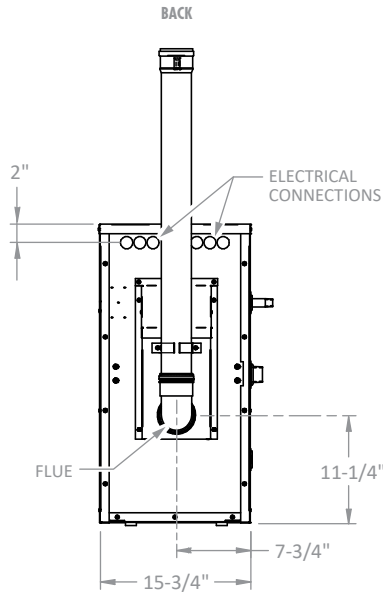


Optional Equipment

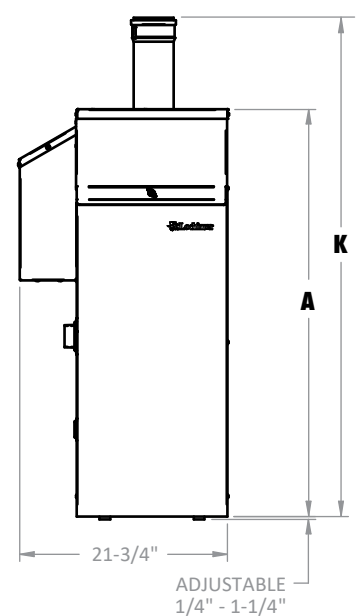
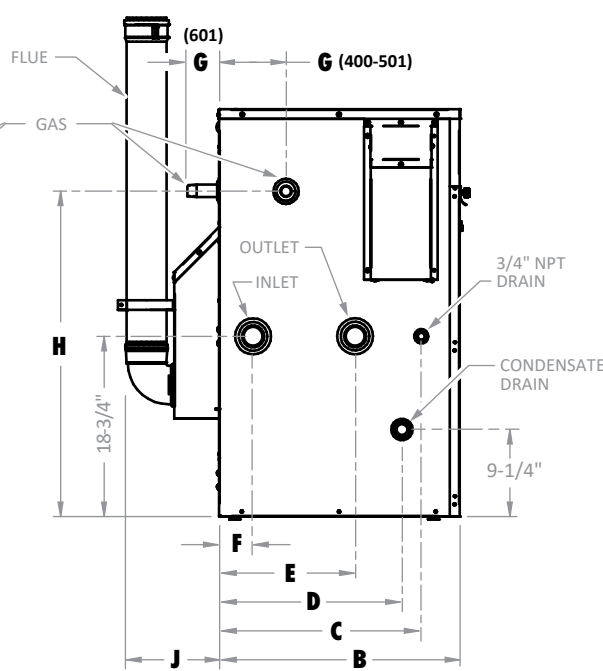
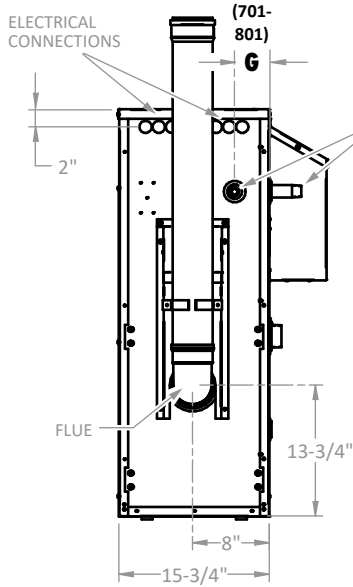
- › Alarm on Any Failure
- › Condensate Neutralization Kit
- › High & Low Gas Pressure Switches (501-801)
- › Modbus Communications
- › BMS Gateway to LON or BacNet
- › SMART SYSTEM PC Software
- › Freeze Protection Kit (Condensate Trap)

Outdoor Armor™ Condensing Water Heater DIMENSIONS & SPECIFICATIONS

Models: OA 151-286



Models: OA 400-801



Model Number	Btu/Hr. Input	GPH @ 100° Rise	A	B	C	D	E	F	G	H	J	K	Gas Conn.	Water Conn.	Vent Size	Ship Wt. (lbs.)
OAN151PM	150,000	175	31-1/4"	16-3/4"	12"	11-1/2"	10"	1-3/4"	12"	23"	9"	49-1/2"	1/2"	1-1/4"	3"	165
OAN200PM	199,000	232	31-1/4"	20-1/4"	16-1/2"	15-3/4"	14-1/2"	5-1/4"	16-1/2"	23"	9-1/4"	49-3/4"	1/2"	1-1/4"	3"	181
OAN286PM	285,000	332	42-1/2"	17-3/4"	13-1/4"	13-1/2"	6-1/4"	2-1/2"	14"	35-3/4"	9-1/4"	52"	3/4"	2"	4"	236
OAN400PM	399,000	464	42-1/2"	25-1/4"	21"	20-3/4"	14-1/4"	3-1/2"	7"	34"	9-3/4"	52"	1"	2"	4"	292
OAN501PM	500,000	582	42-1/2"	31-1/2"	21-1/4"	25"	14-1/4"	3-3/4"	3-1/2"	35-1/4"	9-3/4"	52-3/4"	1"	2"	4"	333
OAN601PM	600,000	698	42-1/2"	35"	21"	25"	14-1/4"	3-1/2"	4-1/2"	32-3/4"	9-1/2"	52"	1"	2"	4"	380
OAN701PM	700,000	815	42-1/2"	41-1/4"	23-1/4"	29-1/4"	17-1/4"	3-1/2"	3"	32-3/4"	12"	49-1/2"	1"	2"	6"	461
OAN801PM	800,000	931	42-1/2"	43-1/4"	23-1/4"	33-1/2"	17-1/4"	3-1/2"	3-1/4"	33"	12-1/4"	50-1/2"	1"	2"	6"	527

Notes: Outdoor installation only. All information subject to change. Change "N" to "L" for LP gas models.



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