



Lochinvar®

HIGH EFFICIENCY BOILERS & WATER HEATERS

ARMOR™ CONDENSING WATER HEATER PACKAGE SOLUTION

Submittal Sheet

AWP-CA

ARMOR™ CONDENSING WATER HEATER / 150,000 TO 285,000 BTU/HR PACKAGE SOLUTION

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

NOTES:

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
- › Vertical & Horizontal Direct-Vent
 - › PVC, CPVC, Polypropylene or SS Venting up to 100 Feet
 - › PVC/CPVC Sidewall Vent Termination
- › Stainless Steel Heat Exchanger
 - › All Welded Construction, Gasketless Design
 - › 160 psi Working Pressure
 - › ASME Construction (AW 286-801)
- › Natural to L.P. Conversion Kit
- › Stainless Steel Circulating Pump
- › On/Off Switch
- › Flow Switch
- › ASME Temperature & Pressure Relief Valve (286)
- › Adjustable Leveling Legs
- › Tank Sensor
- › Adjustable High Limit w/ Manual Reset
- › Automatic Reset High Limit
- › Condensate Trap
- › Zero Clearances to Combustible Material
- › California Code Compliant
- › 5 Year Limited Warranty (See Warranty for Details)
- › 1 Year Parts Warranty (See Warranty for Details)

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 enter service contact info into product
- › 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



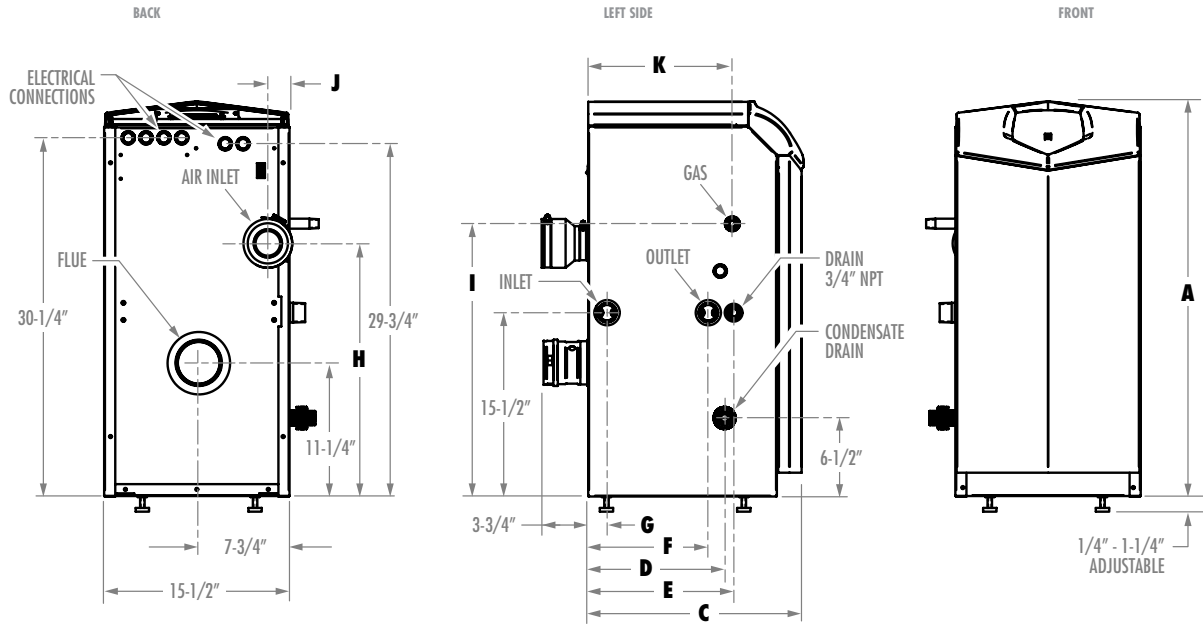
Optional Equipment

Audible Alarm
BACnet MSTP Communications
BMS Gateway for LonWorks or BACnet IP
Concentric Vent Kit (3" & 4" PVC/CPVC only)
Condensate Neutralization Kit
CON-X-US® Remote Connectivity
ModBus Communications
Room Air Vent Kits
SMART SYSTEM PC Software
Stack Frame

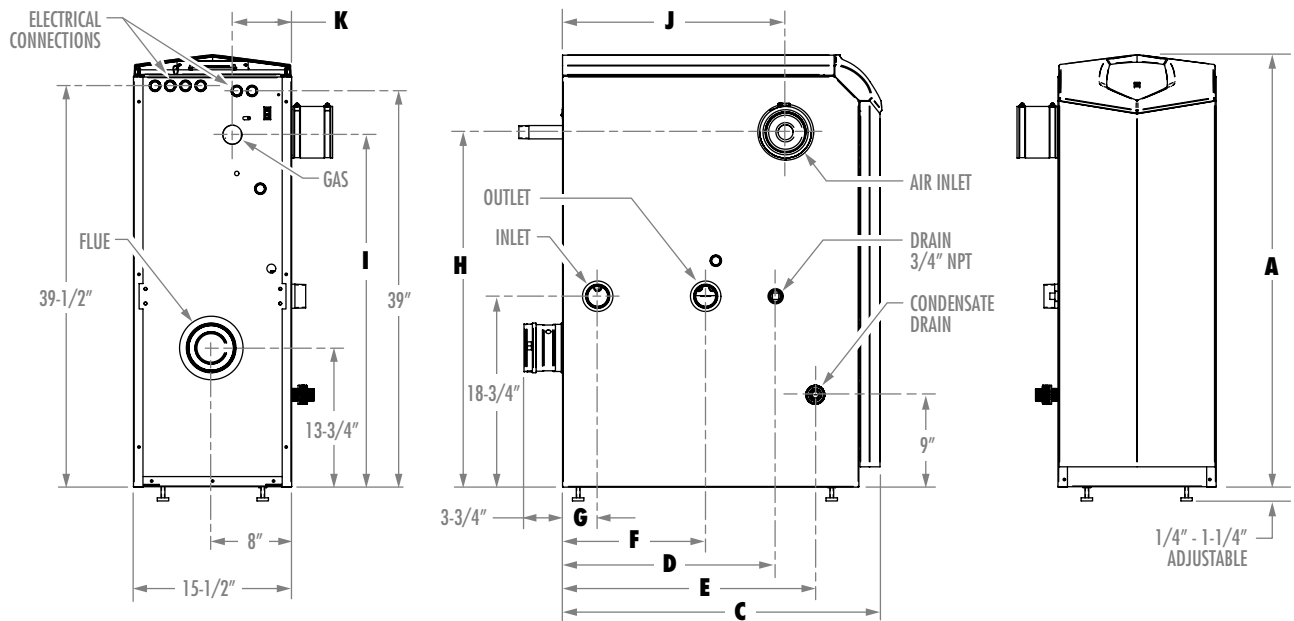
*Exclusive to Lochinvar

Armor™ Condensing Water Heater DIMENSIONS & SPECIFICATIONS

Models: AW 151-200



Models: AW 286



Model Number	Btu/hr Input	GPH @ 100° Rise	A	C	D	E	F	G	H	I	J	K	Gas Conn.	Water Conn.	Air Inlet	Vent Size	Ship Wt. (lbs.)
AWN151PM*	150,000	175	33-1/4"	18"	12-1/4"	11-1/2"	10"	1-1/2"	21-1/4"	23"	1-3/4"	12"	1/2"	1-1/4"	3"	3"	165
AWN200PM*	199,000	232	33-1/4"	22-1/4"	16-1/2"	15-3/4"	14-1/4"	5-1/4"	21-1/4"	23"	1-3/4"	16-1/4"	1/2"	1-1/4"	3"	3"	181
AWN201PM	201,000	232	33-1/4"	22-1/4"	16-1/2"	15-3/4"	14-1/4"	5-1/4"	21-1/4"	23"	1-3/4"	16-1/4"	1/2"	1-1/4"	3"	3"	181
AWN286PM	285,000	332	42-1/2"	19-3/4"	12-3/4"	13-1/2"	6"	2"	34"	31"	11-3/4"	4-1/4"	3/4"	2"	4"	4"	236

All information subject to change. Change "N" to "L" for LP gas models.

*Canada Only



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Armor™ Package Solutions DIMENSIONS & SPECIFICATIONS

All configurations are shown with an AW 151-286 and a 119-504 gallon capacity jacketed and insulated Lock-Temp tank.

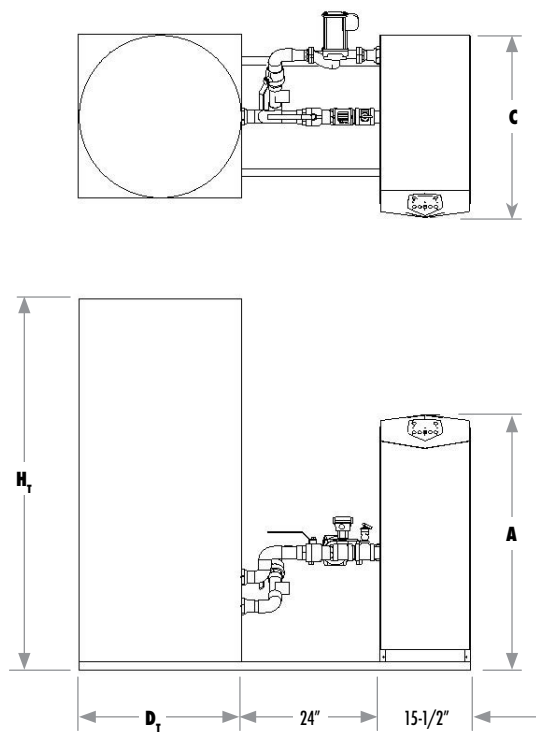
All package solutions are skid mounted. Add 3" to tank H for channel iron skid.

JACKETED TANK DIMENSIONS			
Gallon	H _t	D _t	Weight (lbs.)
119	62-1/2"	28"	345
200	77-1/4"	32"	600
257	91"	34"	1108
318	80"	40"	1290
432	80"	46"	1,512
504	92"	46"	1,623

NOTES:

- Tanks over 500 gallon are available for package solutions.
- Package solutions with multiple units or storage tanks 752 gallons and larger will be designed as a "Breakaway" system.
- Vertical tanks over 650 gallons require breakaway frames for shipping purposes.
- Breakaway systems and frames are factory disassembled for shipping purposes and require some field reassembly.
- Consult factory for additional information and *if equipment room dimensions are critical.*

PS Configuration



PU Configuration

