



Lochinvar®

HIGH EFFICIENCY BOILERS & WATER HEATERS

ARMOR® CONDENSING WATER HEATER PACKAGE SOLUTION

Submittal Sheet

AWHP-Sub-03

ARMOR CONDENSING WATER HEATER / 400,000 – 4,000,000 BTU/HR PACKAGE SOLUTION

Job Name: _____

Model No. _____

Location: _____

Type Gas _____ Btu/Hr Input _____

Engineer: _____

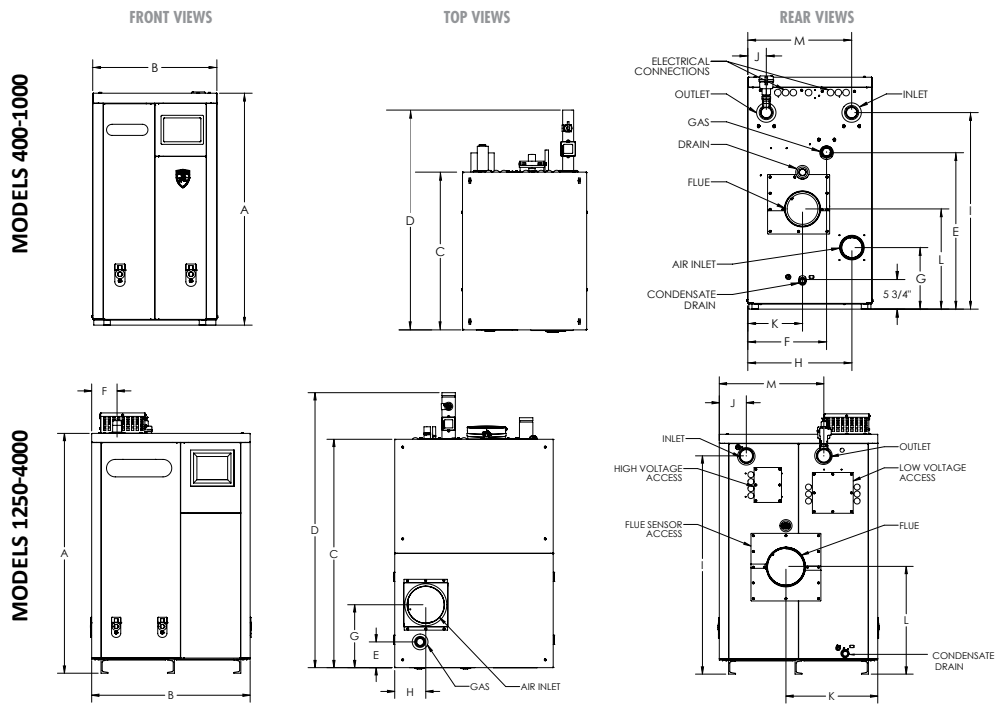
Recovery Rate in GPH _____ @ _____ °F Rise

Agent/Wholesaler: _____

Equipment Tag(s): _____

Contractor: _____

NOTES:



Model Number	Btu/Hr Input	Thermal Efficiency	GPH 100°F Rise
AWH0400NPM	399,000	99%	479
AWH0500NPM	500,000	99%	600
AWH0650NPM	650,000	98%	772
AWH0800NPM	800,000	98%	950
AWH1000NPM	999,000	98%	1,187
AWH1250NPM	1,250,000	98%	1,485
AWH1500NPM	1,500,000	98%	1,782
AWH2000NPM	1,999,000	98%	2,375
AWH3000NPM	3,000,000	98%	3,564
AWH4000NPM	4,000,000	98%	4,752

Model Number	A	B	C	D	E	F	G	H	I	J	K	L	M	Gas Conn.	Water Conn.	Air Inlet	Vent Size	Ship Wgt. (lbs.)
AWH0400NPM	45"	24"	30-1/2"	42-1/2"	29-3/4"	20-1/4"	12"	20"	38"	3-1/2"	10-1/2"	19-1/4"	20"	1"	2"	4"	4"	326
AWH0500NPM	45"	24"	30-1/2"	42-1/2"	29-3/4"	20-1/4"	12"	20"	38"	3-1/2"	10-1/2"	19-1/4"	20"	1"	2"	4"	4"	333
AWH0650NPM	45"	24"	41"	53"	30-1/2"	15-1/4"	12"	20"	38"	3-1/2"	10-1/2"	19-1/4"	20"	1-1/4"	2"	4"	4"	424
AWH0800NPM	45"	24"	41"	53"	30-1/2"	15-1/4"	12"	20"	38"	3-1/2"	10-1/2"	19-1/4"	20"	1-1/4"	2"	4"	6"	433
AWH1000NPM	45"	24"	48"	62"	30-1/2"	15-3/4"	12"	20"	38"	3-1/2"	10-1/2"	19-1/4"	20"	1-1/4"	2-1/2"	6"	6"	494
AWH1250NPM	51-1/2"	34"	49"	59"	5-1/2"	5-1/2"	13-1/2"	6-3/4"	46-3/4"	5-3/4"	19-3/4"	23"	22-1/2"	1-1/2"	2-1/2"	8"	8"	1,519
AWH1500NPM	51-1/2"	34"	52-3/4"	62-3/4"	4-1/2"	4-1/2"	13-1/2"	6-3/4"	46-3/4"	5-3/4"	19-3/4"	23"	22-1/2"	1-1/2"	2-1/2"	8"	8"	1,672
AWH2000NPM	51-1/2"	34"	65-1/2"	75-1/2"	7"	5-3/4"	14-3/4"	7-1/4"	46-3/4"	6-3/4"	18-3/4"	23"	22-1/2"	1-1/2"	2-1/2"	8"	8"	1,931
AWH3000NPM	67-1/4"	48-1/4"	79-3/4"	93-3/4"	4-3/4"	6-3/4"	17-3/4"	8-3/4"	60-1/4"	8-1/2"	25-1/2"	29-1/2"	40"	2"	4"	10"	10"	3,147
AWH4000NPM	67-1/4"	48-1/4"	96"	110"	5"	7-1/2"	17-3/4"	8-3/4"	60-1/4"	8-1/2"	25-1/2"	29-1/2"	40"	2-1/2"	4"	12"	12"	3,694

Change 'N' to 'L' for LP gas models. No deration on LP models. Performance data is based on manufacturer test results.

Add "O" at end of AWH1250-4000 model number for Outdoor models.



Standard Features

- › Up to 99% Thermal Efficiency
- › Modulating Burner with 10:1 Turndown
- › ENERGY STAR Rated
- › CON-X-US Remote Connect
- › Indoor/Outdoor Convertible
- › Direct-Spark Ignition
- › Low NOx Operation
- › Sealed Combustion
- › Low Gas Pressure Operation
- › Vertical & Horizontal Vent Termination
- › Category IV Venting up to 150 Feet
- › PVC, CPVC, Polypropylene, or AL29-4C Vent Mat'l
- › **ASME Stainless Steel Heat Exchanger**
 - Gasketless Design
 - 160 psi Working Pressure
- › Stainless Steel or All Bronze Circulating Pump
- › On/Off Switch
- › Adjustable High Limit with Manual Reset
- › High & Low Gas Pressure Switches w/Manual Reset (AWH1250 - 4000)
- › Flow Switch
- › Inlet & Outlet Temperature Sensors
- › ASME Temperature & Pressure Relief Valve
- › Zero Clearance to Combustible Material
- › Approved for Combustible Floor Installation
- › 1 Year Warranty on Parts
- › 5 Year Limited Warranty (see warranties for details)

Standard Pumps, All Bronze

- › AWH0400-0650 / 1/2 HP, 120V, 1 PH, 60 Hz
- › AWH0800-1000 / 3/4 HP, 120V, 1 PH, 60 Hz
- › AWH1250-1500 / 1 HP, 120V, 1 PH, 60 Hz
- › AWH2000 / 2 HP, 208V, 3 PH, 60 Hz
- › AWH3000 / 5 HP, 208V, 3 PH, 60 Hz
- › AWH4000 / 5 HP, 480V, 3 PH, 60 Hz

Optional Equipment

- Audible Alarm
- High & Low Gas Pressure Switches w/Manual Reset (AWH0400-1000)
- Condensate Neutralization Kit
- SMART TOUCH™ PC Software
- Modbus or BACnet MSTP Communications
- BMS Gateway to LonWorks or BACnet IP
- Indoor to Outdoor Kits
- Outdoor to Indoor Kits (AWH1250-4000)

Codes & Registrations

ASME Certified, "HLW" Stamp (AWH0400-2000)
ANSI Z21.10.3/CSA Certified

ASME Certified, "H" Stamp (AWH3000-4000)
ANSI Z21.13/CSA Certified

SMART TOUCH™ Features

› SMART TOUCH™ Operating Control

- Full-Color Touchscreen LCD Display
- Built-in Cascading Sequencer for up to 8 Water Heaters
- Building Automation Integration with 0-10 VDC Input
- Password Security
- Low Water Flow Safety Control & Indication
- Inlet & Outlet Temperature Readout
- Freeze Protection
- Service Reminder
- Time Clock
- Data Logging
- Hours Running
- Ignition Attempts
- Last 10 Lockouts
- Programmable System Efficiency Optimizers

Night Setback

Water Heater Pump Control

Building Recirculation Pump Control

› High Voltage Terminal Strip

- 120V/1PH/60 Hz (AWH0400-1500)
- 208V/3PH/60 Hz (AWH2000-3000)
- 480V/3PH/60 Hz (AWH4000)

› Low Voltage Terminal Strip

- 24 VAC Auxiliary Device Relay
- Auxiliary Proving Switch Contacts
- Alarm on Any Failure Contacts
- Pump Contacts
- Runtime Contacts
- Tank Thermostat Contacts
- Tank Sensor Contacts
- Cascade Contacts



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ARMOR® Package Solutions DIMENSIONS & SPECIFICATIONS

All configurations are shown with an AWH0400-4000 and a 119-504 gallon capacity jacketed and insulated Lock-Temp tank.

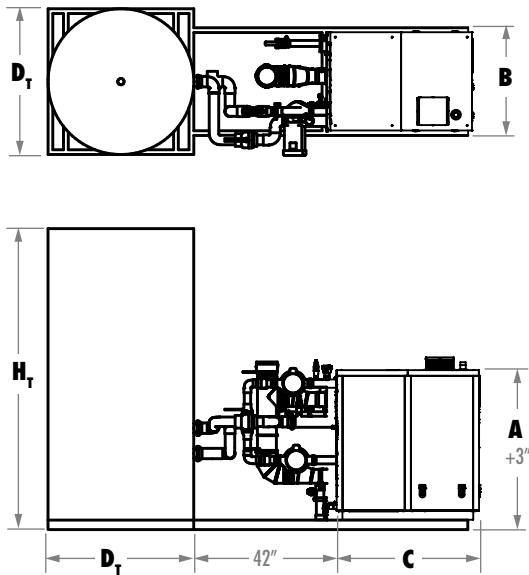
All package solutions are skid mounted. Add 3" to tank H_T for channel iron skid.

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

