

# CONDENSING COMMERCIAL GAS WATER HEATERS



TOUCHSCREEN OPERATING CONTROL  
FEATURING A BUILT-IN CASCADING SEQUENCER

1.0, 1.3 AND 1.5 MILLION BTU/HR

FIRING RATE MODULATION TO 10:1

LESS THAN 20 ppm NOx

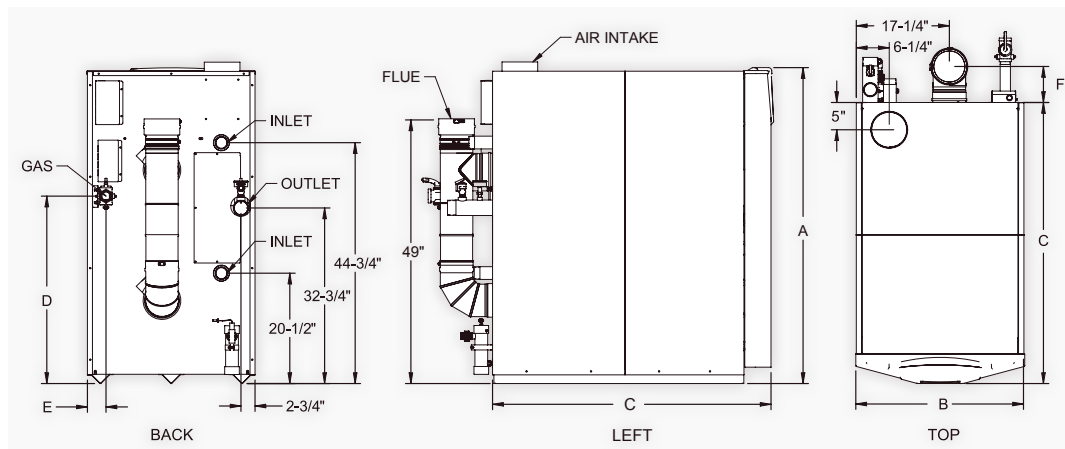
DIRECT-VENT FLEXIBILITY TO 100 FEET



96%  
Thermal Efficiency



# Dimensions and Specifications



## Model Number Guide

AW	N	1500	PM
Model	Natural Gas	Btu/hr Input	Pump Mounted

Armor X2 Water Heater,  
Natural Gas,  
1,500,000 Btu/hr input,  
PM Pump Mounted

ARMOR X2 Water Heater				Dimensions and Specifications											
Model Number	Btu/hr Input	Thermal Efficiency	GPH @ 100° Rise	A	B	C	D	E	F	Gas Conn.	Inlet Water Conn.	Outlet Water Conn.	Air Inlet	Vent Size	Shipping Wt. (lbs.)
AWN1000PM	999,999	96.0%	1,164	58-3/4"	31"	48"	35"	4-1/2"	15"	1-1/2"	2 x 2"	3"	6"	6"	910
AWN1300PM	1,300,000	96.0%	1,513	58-3/4"	31"	52-1/4"	34-3/4"	3-1/2"	6-3/4"	1-1/2"	2 x 2"	3"	6"	6"	1049
AWN1500PM	1,500,000	96.0%	1,745	58-3/4"	31"	56-1/2"	34-3/4"	3-1/2"	6-3/4"	1-1/2"	2 x 2"	3"	6"	6"	1185
Notes: Change 'N' to 'L' for L.P. Gas Model. No deration on L.P. models. Performance data based on manufacturer test results. All dimensions shown in inches.															

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## Standard Features

- > 96% Thermal Efficiency (AHRI Certified)
- > Modulating Burner with 10:1 Turndown
  - > Direct-Spark Ignition
  - > Low NOx Operation
  - > Sealed Combustion
  - > Low Gas Pressure Operation
- > Vertical & Horizontal Venting
  - > Category IV Venting up to 100 Feet
  - > PVC, CPVC, Polypropylene or AL29-4C Vent Material
  - > Sidewall Vent Termination Provided
- > ASME Stainless Steel Heat Exchanger
  - > Gasketless Design
  - > 160 psi Working Pressure
- > (2) Low Lead Bronze Circulating Pumps
- > On/Off Switch
- > Adjustable High Limit with Manual Reset
- > Low Air Pressure Switch
- > Flow Switch
- > Inlet & Outlet Temperature Sensors
- > Two Easy Access Terminal Strips
- > Temperature & Pressure ASME 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)

## SMART TOUCH™ Features

- > SMART TOUCH™ Touchscreen Operating Control
  - > Full-Color Touchscreen LCD Display
  - > Built-in Cascading Sequencer for up to 8 Water Heaters
  - > Building Management System 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
  - > Anti-Cycling
- > Water Heater Pump Control
  - > High Voltage Terminal Strip
  - > 120 VAC / 60 Hertz / 1-Phase Power Supply
  - > Pump Contacts
- > Low Voltage Terminal Strip
  - > 24 VAC Auxiliary Device Relay
  - > Auxiliary Proving Switch Contacts
  - > Alarm on Any Failure Contacts
  - > Runtime Contacts
  - > Tank Thermostat Contacts
  - > Tank Sensor Contacts
  - > Cascade Contacts

## Optional Equipment

- > Alarm Bell
- > Condensate Neutralization Kit
- > SMART TOUCH PC Software
- > Modbus Communications
- > Stainless Steel Vent Kits (1300 & 1500)
- > BMS Gateway to LON or BacNet

## Codes & Registrations

- > ANSI Z21.10.3 compliant
- > ASME certified, "HLW" stamp
- > California Code compliant
- > Massachusetts Code compliant
- > South Coast Air Quality Management District registered

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