

Technical Data Sheet

AM Series Pool Heaters

AM Series Pool Heaters are state of the art factory assembled package systems designed to meet swimming pool water heating needs. The package includes an AM Series boiler, standard external shell and tube Cupro-nickel heat exchanger, pump, expansion tank, air vent and fittings pre-piped along with makeup water connection. It provides exceptional reliability, serviceability, and fuel savings from 399 to 1000 MBTU capacities for pool water heating with a single unit. It includes single electrical power connection to the boiler along with single set of makeup water, gas, and pool water inlet and outlet connections and a single vent connection, but with the reliability of a multiple-heater installation.



AM Series are modular design, high efficiency condensing boilers. Each boiler is comprised of between two and four independent thermal modules firing up to 250 MBTU each at up to 5:1 individual turndown. This unique design provides the multiple boiler redundancy with a single unit installation. Indirect pool heat exchangers are rated for chlorine and salt water applications, handling large flow rates to match pool pumps capacity with reduced pressure drops.

When needed, multiple units are easily co-located and common vented to provide larger BTU capacity pool heating plant for higher efficiency, turndown, and redundancy in the smallest footprint. The simple design also means the boiler and package assembly is very simple to maintain and service.

Optional titanium or stainless steel heat exchangers are also available to match specific application needs providing higher resistant to corrosion from salt water and chlorine.

Features

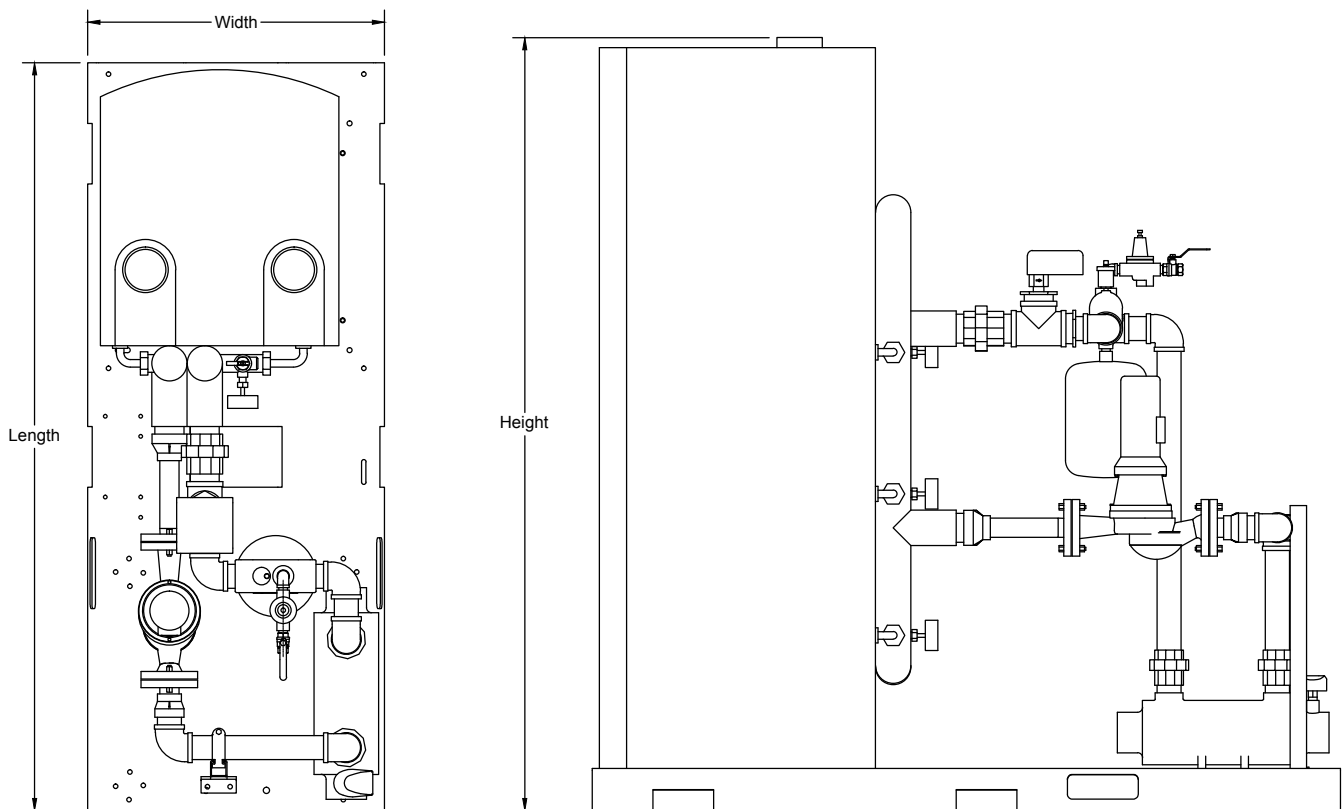
- High efficiency, low emissions water heater
- Natural gas or propane
- Complete heating solution in one package
- High turndown means reduced operating costs
- Built-in redundancy
- Boilers are rated for direct or conventional vent with cPVC, polypropylene, or stainless steel
- Concentric vent capability
- Common vent capability
- Side wall common venting with no additional check valve
- Superior reliability
- Minimal and easy access for maintenance
- Small footprint saves space and makes retrofits a breeze
- Supports integration to BAS system
- Modbus communication standard
- Low NOx <20ppm

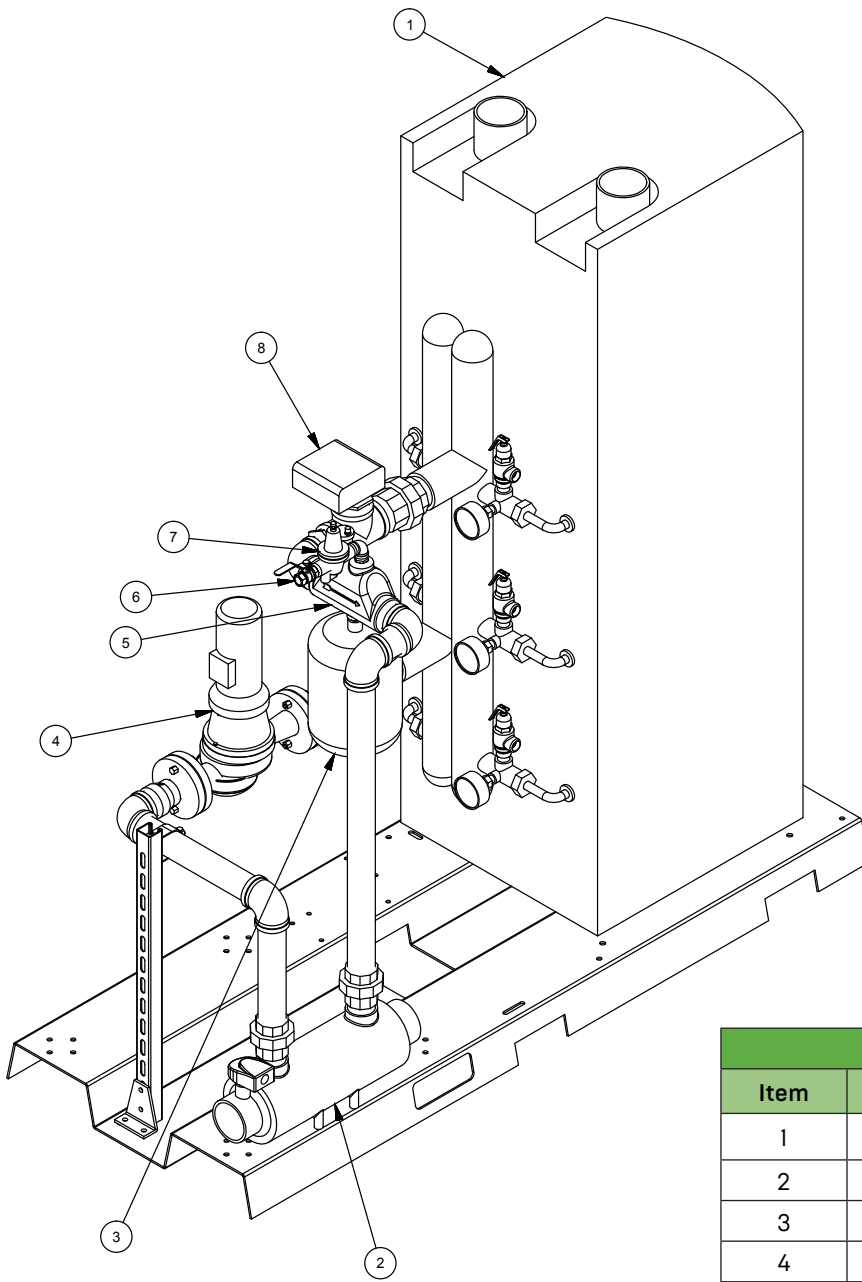
Specifications

Model Number	BTU Input	HX BTU Output	HX Max Pool Size (US gal)*	HX Material	Skid Height (in)	Skid Width (in)	Skid Length (in)
AM 399P	399,000	400,000	46,000	Cu-Ni	50.7	29.4	74.0
AM 500P	500,000	650,000	65,000	Cu-Ni	50.7	29.4	74.0
AM 750P	750,000	1000,000	94,000	Cu-Ni	76.5	29.4	74.0
AM 1000P	1,000,000	1000,000	94,000	Cu-Ni	76.5	29.4	74.0

*Pool size is based on heat exchanger BTU output, 180°F boiler temperature, 84°F pool temperature, and several assumptions about surface area and outdoor air temperature. For a more accurate sizing, contact AERCO applications engineering department or your local manufacturer's representative.

Dimensions





Equipment List

Item	Description
1	AM Series Boiler
2	Heat Exchanger
3	Expansion Tank
4	Pump
5	Air Scoop with Air Vent
6	Make-up Water Connection Isolation Valve
7	Pressure Reducing Fill Valve
8	Low Water Cutoff Switch