

AM/AP LINE

TITANIUM PLATE HEAT EXCHANGERS

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At the heart of AIC designs lies innovative product solutions and uncompromising quality. The tradition continues with our exclusive new AM/AP series of titanium, gasketed plate and frame heat exchangers.



AM/AP is the integration of a proven design with outstanding material performance, built for maximum heat transfer efficiency. The versatility of a plate and frame configuration with superior titanium characteristics makes the AM/AP a natural complement to AIC's existing line of titanium products.

THE TITANIUM SOLUTION

Unlike other commercially available heat exchanger materials on the market, titanium is fully immuned to corrosive attacks by salt and sea water, high chlorine concentration solutions, and has exceptional resistance to other media such as acids and alkalis.

- High structural strength lends to less material requirements.
- Immunity to corrosion leaves surfaces smooth and clear for efficient heat transfer.
- Erosion-corrosion resistance enables high operating velocities.

Once considered an inaccessible material for standard construction, titanium has become a mainstream component of systems for various industries. Utilizing the superior qualities of titanium in the design of the AM/AP heat exchangers has resulted in a product line with exceptional value and long continuous service.

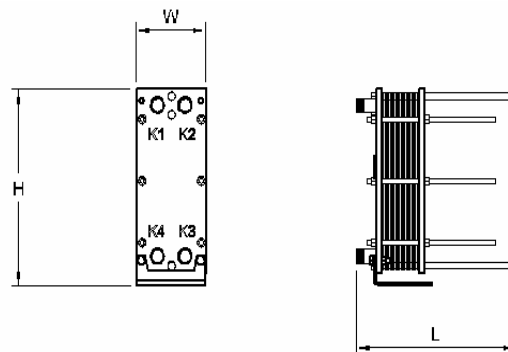


CUTTING THROUGH THE SALT...

Did you know that many materials marketed as "marine" grade is actually not suited for long term salt water use? This includes Cupro-Nickel and SMO254.

TECHNICAL SPECIFICATIONS

MODEL	W (in)	H (in)	L (in)	Max. Flow (USGPM)	Connections (NPT)
AM-1000Ti	8.0	18.6	17.2	42	1.25"
AM-1450Ti	8.0	18.6	17.2	58	1.25"
AP-2500Ti	11.8	27.3	17.2	150	2"
AP-3000Ti	11.8	27.3	17.2	180	2"
AP-3800Ti	11.8	27.3	17.2	225	2"



MATERIALS OF CONSTRUCTION

	Standard	Optional
Plates	Titanium	-
Gaskets	EPDM	Nitrile / Viton
Frame	Carbon Steel (coated)	-
Connections-hot side	SS316	PVC/PP/Titanium
Connections-cold side	PVC/PP	Titanium
Design Ratings	100 PSI - 200°F	

THE AM/AP ADVANTAGE

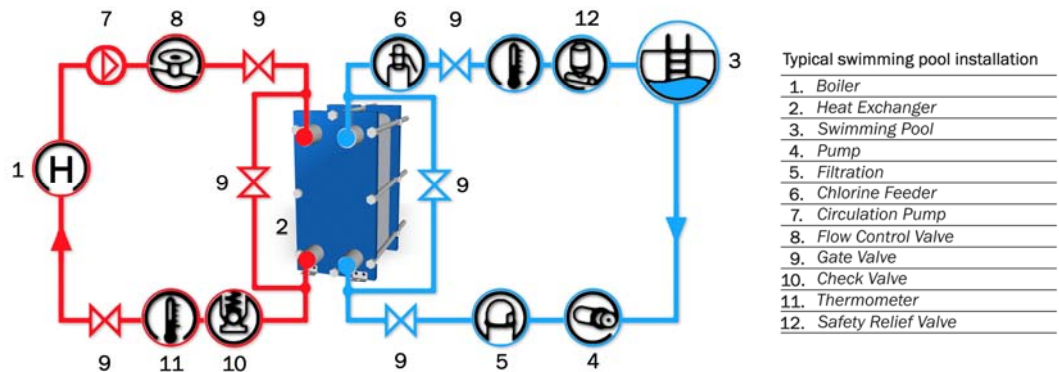
Corrosion resistant materials of construction reduce product lifecycle costs, due to less downtime and maintenance requirements.

Gasketed plate and frame design allows for the removal, addition, and replacement of all components, for ease of inspection, maintenance, and changes in capacity.

Rugged, compact structure for durable, trouble-free service.

THE SALT WATER ADVANTAGE

AM/AP's inherent plate designs make them the optimal choice for applications with close temperature approaches, and married with non-corrosive materials, create the ideal solution for the salt water pool market, and other marine environments. The AM/AP series covers a comprehensive range of capacities, suitable for all residential and commercial applications.



Typical swimming pool installation

1. Boiler
2. Heat Exchanger
3. Swimming Pool
4. Pump
5. Filtration
6. Chlorine Feeder
7. Circulation Pump
8. Flow Control Valve
9. Gate Valve
10. Check Valve
11. Thermometer
12. Safety Relief Valve

POOL - QUICK SIZING GUIDE

...with **BOILER** source 180°F

MODEL	Nominal Capacity* (MBH)	Pool Size (Gallons)
AM-1000Ti	1,000	88,000
AM-1450Ti	1,450	127,000
AP-2500Ti	2,500	220,000
AP-3000Ti	3,000	260,000
AP-3800Ti	3,800	330,000

* Nominal Values are based on a boiler source at 180°F, with 120°F temperature differential between incoming heating, and heated, water.

...with **GEOTHERMAL** source (108°F)

MODEL	Nominal Capacity* (MBH)	Pool Size (Gallons)
AM-1000Ti	350	30,000
AM-1450Ti	500	44,000
AP-2500Ti	800	70,000
AP-3000Ti	950	84,000
AP-3800Ti	1200	105,000

* Nominal Values are based on a geothermal heating source (30% propylene glycol) at 108°F.

...with **SOLAR** source 160°F

MODEL	Nominal Capacity* (MBH)	Pool Size (Gallons)
AM-1000Ti	700	62,000
AM-1450Ti	1,000	88,000
AP-2500Ti	1,600	140,000
AP-3000Ti	2,000	175,000
AP-3800Ti	2,500	220,000

* Nominal Values are based on a solar heating source (40% propylene glycol) at 160°F.

sample geothermal pool application

Model	AM-1000Ti	
	Primary Side	Swimming Pool
Fluid	30% Prop. Glycol	Salt Water
Temperatures	108°F	82°F
Flows	20 USGPM	35 USGPM
Pressure Drop	4 PSI	9 PSI
Heat Load	230,000 BTU/Hr	

At AIC, we are committed to providing exceptional service and high quality heat exchangers for our valued clients. Our technical expertise, wide range of product design offerings, and readily available stock, enable us to be your sole source supplier of heat exchangers, and custom designed heat transfer solutions.



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