

'PRO-TEMP' TITANIUM HEAT EXCHANGERS

PACKAGED SYSTEMS

Our packaged systems are the standard of quality in temperature management systems. Each 'Pro-Temp' Titanium Heat Exchanger skid package is sized and custom designed to fit any aquatics application. No matter the amount of tanks or the volume of water - we can provide the perfect package for you. Each package arrives pre-plumbed, leak tested and ready for customer installation.

We have several types of packages available that include our *Boiler/HEX Exchanger Skid*, *Chiller/HEX Skid* and *Plate Exchangers*. Our **Boiler/HEX Skid** is a pre-plumbed, skid packaged boiler and heat transfer system. Typical applications for this skid system include single tank systems, single pass flow through designs and multi-tank recirculating applications. All skid systems include single or dual boilers, immersion or plate style heat exchangers as well as all necessary components required to provide a complete heating solution.

Our **Chiller/HEX Skid** is a pre-plumbed, skid packaged chiller and heat transfer systems. Typical applications for this skid system include single tank systems, single pass flow through designs and multi-tank recirculating applications. All skid systems include single or dual chillers, immersion or plate style heat exchangers as well as all necessary components required to provide a complete chilling solution.

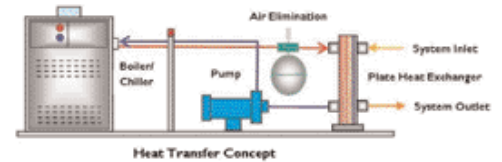
Our **Plate Exchangers** are designed to provide maximum efficiency in heat transfer using non corrosive metals for various aquatic heating and cooling applications using the minimal amount of floor space. The exchangers are used in conjunction with chiller and boiler equipment. Our *Plate Exchangers* range from 4 gpm to 300 gpm.

Each skid typically consists of several major components that include *Boiler*, *Heat Exchanger*, *Pumps*, and *Heat Transfer Skid*.

- **Boiler** (Can either be Single or Dual Boiler units packaged with immersion grid coil and plate and frame heat exchangers. Each is sized specifically for your specific heat load application. Includes 82% fan assisted (indoor) or atmospheric (outdoor) dual stage boiler constructed marine bronze headers. Boiler safety controls include flow switch, pressure relief valve, temperature operator control, high limit temperature control with manual reset)
- **Heat Exchangers** (Can be either plate and frame **or** immersion grid coil design constructed of either titanium or stainless steel materials based on your aquatic heating application. Alternative heat exchanger materials such as Polypropylene and Polyethylene are available)
- **Pumps** (The "loop" pumps are properly sized CPVC, Bronze or Steel pumps and selected based on heat exchanger design and distance from boiler skid)
- **Heat Transfer Skid** (Is pre-plumbed and includes all copper or steel pipe on the closed boiler loop and Schedule 80 CPVC pipe on open aquatic system side. Air controls include *Air Separator*, *Expansion Tank*, *Fiberglass Grating*, *Air Vents*, and *Pressure Reducing Fill Valve*. Temperature control includes a digital temperature controller with 15' lead titanium encapsulated temperature sensor. Systems are pre-plumbed, factory wired, skid assembled and leak tested for ease of customer installation. Crated skid delivery is typically four to six weeks. Boiler unit is assembled on skid.

We also have Tube and Shell Heat Exchangers available upon request that are cost effective and efficient. Our FREE systems design is always available, so please consult with an AREA Technical

Representative for any heating and/or chilling application to ensure that you receive the most efficient and cost effective system. Please contact us for specific literature on any package system or additional information. Our *Systems Questionnaires* are available upon request or on-line at www.areainc.com.



APPLICATIONS

- Zoos / Public Aquarium Exhibits
- Recirculating Aquaculture Systems
- Food Processing
- Water Theme Parks
- Hotel Water Systems

MODEL	VOLTAGE	BTU CAPACITY	FLOW (gpm) (Min/Max)	HEAT EXCHANGER PRICE
AHX553-225	115/230, 1 Phase	225,000	5/35	\$19,491.00
AHX553-300	115/230, 1 Phase	300,000	5/35	20,130.00
AHX553-400	115/230, 1 Phase	400,000	5/35	21,325.00
AHX553-600	115/230, 1 Phase	600,000	5/35	26,284.00
AHX553-750	115/230, 1 Phase	750,000	5/35	27,219.00
AHX553-1050	115/230, 1 Phase	1,050,000	5/35	30,746.00
AHX553-1200	115/230, 1 Phase	1,200,000	5/35	33,077.00
AHX553-1480	115/230, 1 Phase	1,480,000	5/35	35,972.00
AHX553-1650	115/230, 1 Phase	1,650,000	5/35	38,173.00
AHX553-1970	115/230, 1 Phase	1,970,000	5/35	42,895.00
AHX553-2300	115/230, 1 Phase	2,300,000	5/35	44,303.00

These are our standard packages that are complete and ready for installation. We also provide custom packages for any application and configuration. Please consult with a Technical Representative for sizing, pricing and schematics.