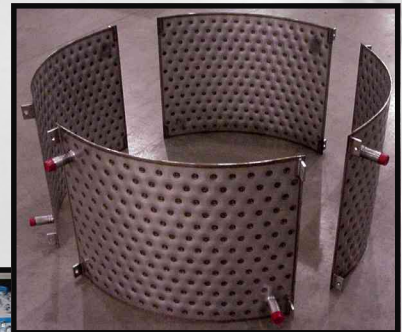


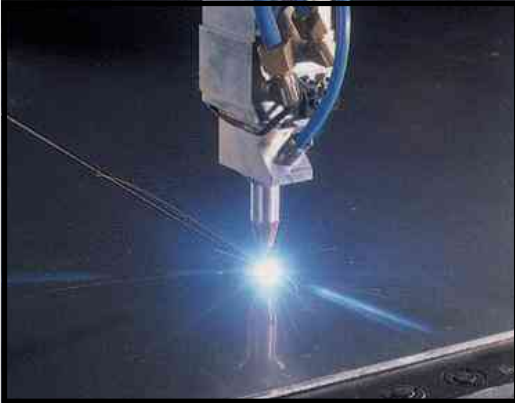
THE HEAT TRANSFER SPECIALISTS



OMEGA

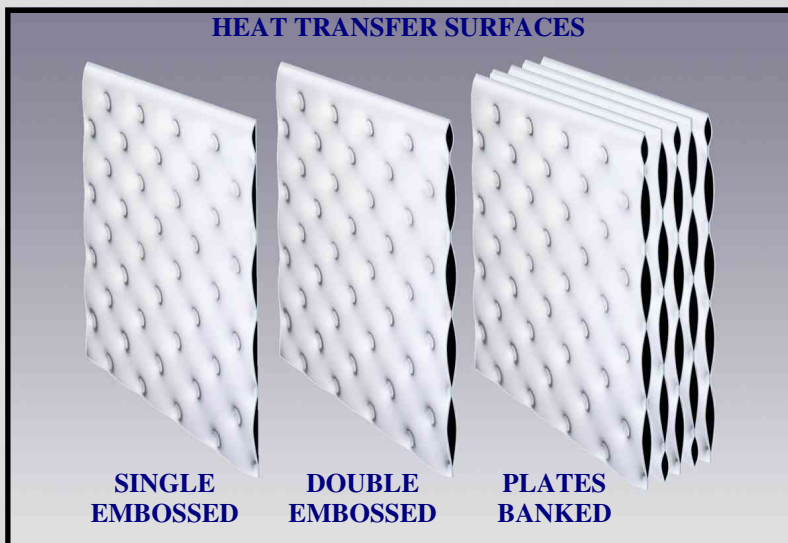
HEAT TRANSFER TECHNOLOGY

LASER WELDING



Laser welding has proven to be the most efficient and cost effective solution to conventional welded heat transfer surfaces with millions of square feet in operation today. We pride ourselves on our ability to produce high quality products while saving our customers time and money. Our CNC operated laser welding machines achieve accuracy and allow flexibility that is unmatched by any other heat transfer welding process.

Imagine a heating or cooling surface that is specifically designed for your application, with calculated process considerations that have been ignored or un-controlled by conventional welding operations in the past. Now, imagine that this quality and assurance could be yours at no additional cost. This is the foundation of how Omega laser welded surface has excelled in the heat transfer industry. We offer all our customers the convenience of on staff engineers to assist with any process questions or concerns that may arise.



Single embossed panels are ideal for any application where a flat sanitary surface is required. Single embossed panels are utilized heavily for the process tank and cooling table / conveyor industries.

Double embossed plates are ideal for any process cooling or heating applications where sanitary surfaces are not required.

All laser welded assemblies offer an option of a partial or full ASME "U" stamp.





TANK COMPONENTS

What advantages are there with Omega laser-jackets?

Product advantages: Better performance
Better quality
Extended life

Manufacturing advantages: Increased productivity
Reduced fabrication costs

Is using laser welded jackets hard to do?

NO, it's as easy as 1-2-3



STEP 1– Laser welding

Laser welding tank components is a process of attaching a top sheet (inflated side) to a bottom sheet (shell side). This welding is done with no alteration to the product side of the bottom sheet such as pocking, pitting, or discoloration. Any protective covering on the product side of the sheet can be left in place during welding and removed after tank fabrication is complete.

STEP 2 - Forming

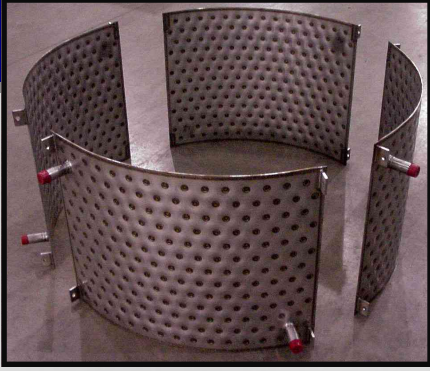
The laser welded panels are then shipped to the customer for forming into shells and heads. There are no additional requirements for forming laser welded jacketed material. Heads can be formed as ASME dished or coned shapes.



STEP 3 - Nozzle installation and inflation

After shell fabrication nozzle installation and inflation can take place. There are two methods that can be used: 1) Inflate jacket with quill and install nozzles after (utilizing the same techniques for nozzle installation as preformed jackets) or 2) Install and inflate through nozzles. The inflation process is very simple and each design will be given a proper inflation pressure and pillow height.

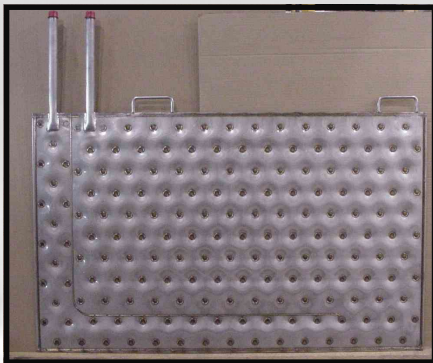
FABRICATED ASSEMBLIES



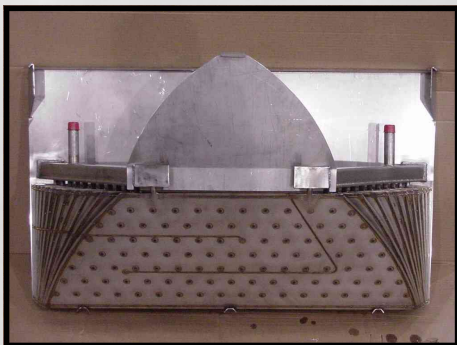
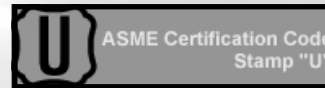
CLAMP-ON JACKETS

Omega Thermo Products manufactures a large variety of fabricated assemblies with many standard designs to choose from. All assemblies are built utilizing laser welded heat transfer surface, which insures uniformity with multi-piece assemblies.

Omega specializes in custom design fabrication and direct equipment replacements. All assemblies are available with many material, finish, and design options.



IMMERSION PLATES



SPECIALTY ASSEMBLIES



BAYONET HEATERS



**SINGLE EMBOSSED
ASSEMBLIES**



PLATE BANK ASSEMBLIES

REFRIGERATION PRODUCTS

FALLING FILM CHILLERS

The Omega Falling Film Chiller is designed for process cooling applications of all kinds. The rapid fluid cooling ability of filming technology allows fluids to be quickly cooled to temperatures near their freezing points. The Omega chiller is perfect for fluid cooling applications where product particulates might be present.



The Omega Chiller utilizes a two piece construction with a separate upper cabinet and lower fluid tank. This unique design allows customers the versatility of direct attachment designs. The Omega Falling Film Chiller is constructed of all stainless steel and FDA approved materials. All evaporator banks are designed and built to meet ASHRAE 15 Standards.



INDUSTRIAL ICE MAKERS

Omega Industrial Ice Makers are designed for high volume ice requirements up to 70 tons/day while maintaining a compact design with no moving parts. The Omega ice maker has a patented defrost design that requires very short defrost time.

ICE BANKS

Omega Ice Banks are utilized for thermal energy storage. Ice production can take place during “off peak” periods of electrical demand. The stored energy can later be consumed during periods of high electrical demands or times of peak or intermittent cooling loads. Ice banks are also available without reservoirs for immersion applications.





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