

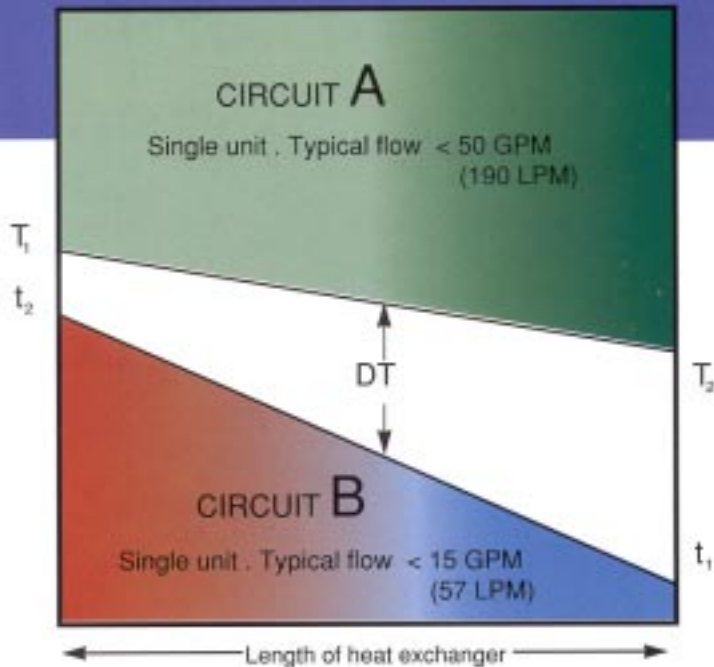
TherMax² Heat Exchangers

by

**PROCESS
TECHNOLOGY**



Compact



TEMPERATURE PRESSURE AND CORROSION LIMITS are governed by the stainless steel used. The use of stainless in a very compact spiral design allows for low stress over a broad range of temperatures. The heat exchanger is rated to 360 PSI in the spiral circuit B and 230 PSI in the axial circuit A.

TherMax[®] COMPACT MODULAR DESIGN makes for easy installation and servicing. Manifolding is simplified for larger applications. Heat loss is low, requiring little or no insulation.

CYLINDRICAL HEAT EXCHANGER of plate design using a dimpled heat transfer sheet, wound in a self-enclosed spiral.

LOW INTERNAL VOLUME with maximum single circuit capacity at 76 fluid ounces (2.2 liters).

TherMax[®] ALL WELDED CONSTRUCTION means no gaskets to fail. TIG welding is used on the sheet edge which separates Circuit A from Circuit B.

SPIRAL CIRCUIT B

Design pressure 360 PSI

BAFFLE MATERIAL

SILICONE -operating temperature -60°F (-50°C) to 480°F (250°C)

Other materials available. Consult factory.

AXIAL CIRCUIT A

Design pressure 230 PSI

No baffle.

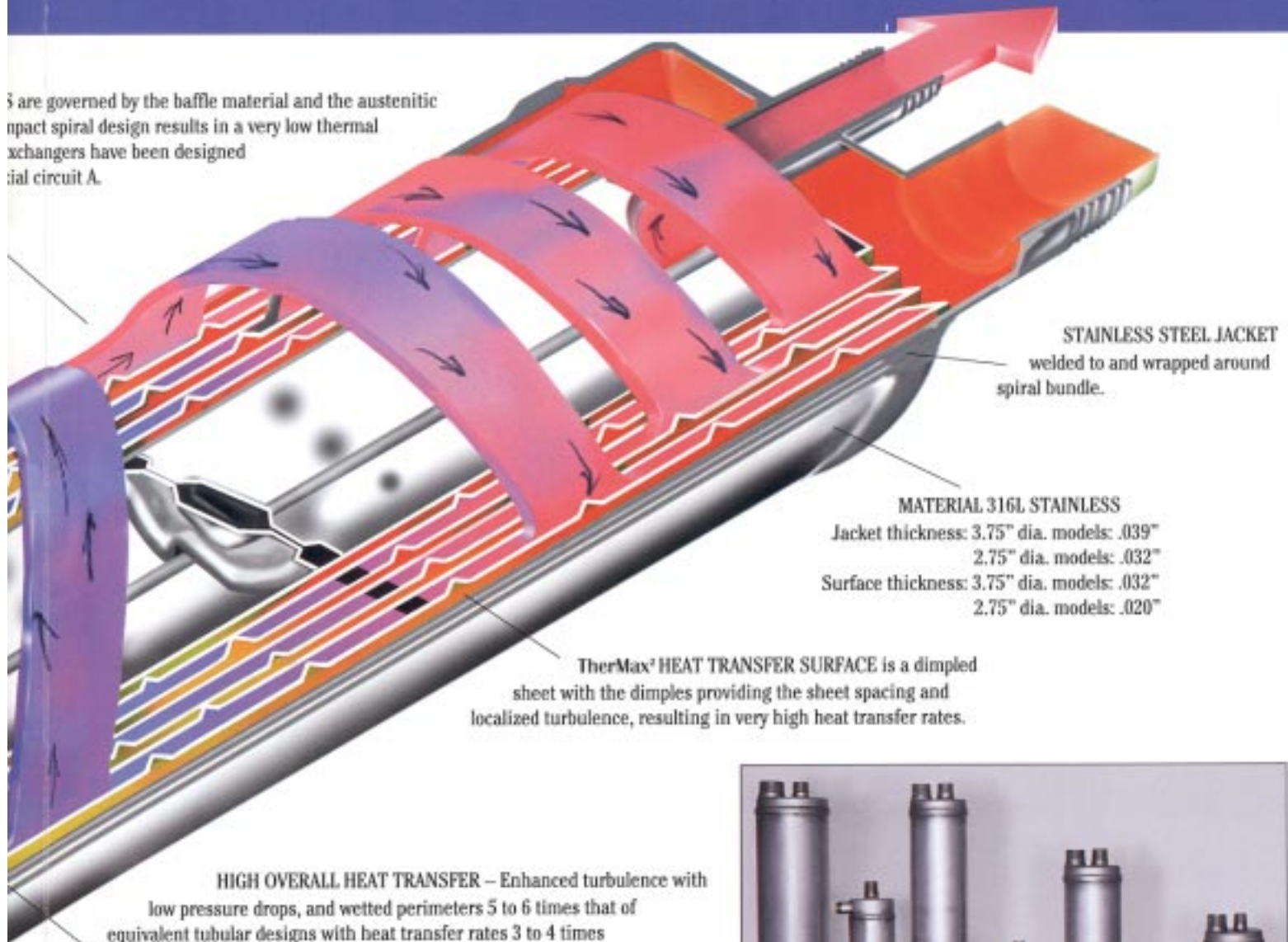
INNOVATIVE DESIGN provides the most effective surface for all applications and the patented fabrication process maintains consistent, high quality production.

APPLICATIONS:

INDUSTRIAL • PROCESS SYSTEM • COGENERATION
EVAPORATORS / CONDENSERS • CHILLERS • HEAT

t – High Heat Transfer Rate – High Capacity

3 are governed by the baffle material and the austenitic compact spiral design results in a very low thermal exchangers have been designed circuit A.



STAINLESS STEEL JACKET welded to and wrapped around spiral bundle.

MATERIAL 316L STAINLESS
Jacket thickness: 3.75" dia. models: .039"
2.75" dia. models: .032"
Surface thickness: 3.75" dia. models: .032"
2.75" dia. models: .020"

TherMax' HEAT TRANSFER SURFACE is a dimpled sheet with the dimples providing the sheet spacing and localized turbulence, resulting in very high heat transfer rates.

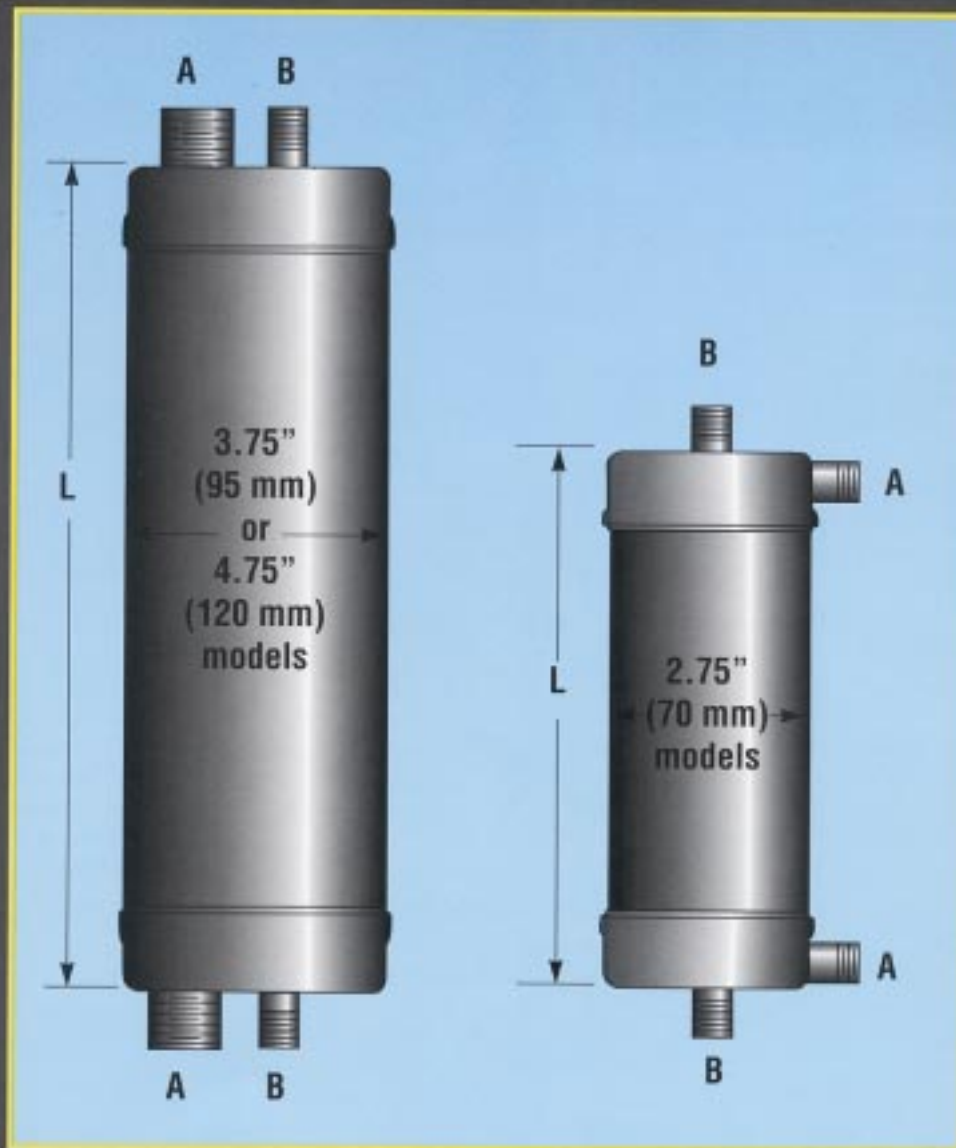
HIGH OVERALL HEAT TRANSFER – Enhanced turbulence with low pressure drops, and wetted perimeters 5 to 6 times that of equivalent tubular designs with heat transfer rates 3 to 4 times that of tubular heat exchangers.



Compact cylinders from 3" (70 mm) x 6" (158 mm) to 5" (120 mm) x 20" (515 mm).
Weight: 2.4 lbs. to 31 lbs. (1.1 kg to 14 kg).

ENERATION • SOLAR • PLATING • ELECTRONICS • COMMERCIAL & INDUSTRIAL WASHERS
• HEAT RECOVERY • BOILERS (STEAM & WATER) • VAPOR RECOVERY • WATER HEATERS

SPECIFICATIONS



| EXCHANGE AREA SQ. FT. (SQ. M) | OVERALL LENGTH IN. (MM) | DIM. DIA. IN. (MM) | MODEL NUMBER | CONNECTIONS (MNPT) | | WEIGHT | |
|----------------------------------|----------------------------|-----------------------|-------------------|--------------------|-----------|------------------|--------------------|
| | | | | CIRCUIT A | CIRCUIT B | DRY Lbs. (kg) | WATER Lbs. (kg) |
| 1.1 (.10) | 6.25 (158) | 2.75 (70) | IS1.1-2.75-6.25 | 0.75 | 0.50 | 2.4 (1.1) | 3.3 (1.5) |
| 2.5 (.23) | 10.25 (260) | 2.75 (70) | IS2.5-2.75-10.25 | 0.75 | 0.50 | 4.0 (1.8) | 5.5 (2.5) |
| 3.8 (.35) | 14.25 (362) | 2.75 (70) | IS3.8-2.75-14.25 | 0.75 | 0.50 | 5.7 (2.6) | 7.7 (3.5) |
| 3.8 (.35) | 10.75 (273) | 3.75 (95) | IS3.8-3.75-10.75 | 1.00 | 0.50 | 10.0 (4.5) | 13.1 (5.9) |
| 5.8 (.54) | 15.50 (394) | 3.75 (95) | IS5.8-3.75-15.5 | 1.00 | 0.75 | 14.5 (6.6) | 18.9 (8.6) |
| 7.8 (.72) | 20.25 (515) | 3.75 (95) | IS7.8-3.75-20.25 | 1.00 | 0.75 | 19.0 (8.6) | 24.7 (11.2) |
| 15.0 (1.40) | 20.25 (515) | 4.75 (120) | IS15.0-4.75-20.25 | 1.25 | 0.75 | 31.0 (14) | 39.2 (17.8) |

**PROCESS
TECHNOLOGY**

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