



HEAT EXCHANGERS



| THERMAX ² SPIRAL PLATE HEAT EXCHANGERS | | | | | | |
|---|-----------------------------|------------------------|--------------------|-----------|-------------------|-------------------------|
| EXCHANGE AREA Sq. ft./ (sq. m) | OVERALL LENGTH In./ (mm) | DIM. DIA. In./ (mm) | CONNECTIONS (MNPT) | | MODEL NUMBER | SHIP WGT. Lbs./ (kg) |
| | | | CIRCUIT A | CIRCUIT B | | |
| 1.1 (.10) | 6.25 (159) | 2.75 (70) | 3/4" | 1/2" | IS1.1-2.75-6.25 | 5 (2.5) |
| 2.5 (.23) | 10.25 (260) | 2.75 (70) | 3/4" | 1/2" | IS2.5-2.75-10.25 | 7 (3) |
| 3.8 (.35) | 14.25 (362) | 2.75 (70) | 3/4" | 1/2" | IS3.8-2.75-14.25 | 10 (4.5) |
| 3.8 (.35) | 10.75 (273) | 3.75 (95) | 1" | 1/2" | IS3.8-3.75-10.75 | 15 (7) |
| 5.8 (.54) | 15.50 (394) | 3.75 (95) | 1" | 3/4" | IS5.8-3.75-15.5 | 20 (9) |
| 7.8 (.72) | 20.25 (514) | 3.75 (95) | 1" | 3/4" | IS7.8-3.75-20.25 | 24 (11) |
| 15.0 (1.40) | 20.25 (514) | 4.75 (121) | 1-1/4" | 3/4" | IS15.0-4.75-20.25 | 30 (13.5) |

THERMAX Features and Benefits

MORE COMPACT AND LOWER PRICE THAN TUBULAR HEAT EXCHANGERS:

- ◆ 1/3 the size of an equivalent tubular heat exchanger at a lower price point.
- ◆ Enhanced turbulence, lower pressure drops, and wetted surface areas 5 to 6 times that of equivalent tubular designs enable heat transfer rates 3 to 4 times that of equivalently-sized tubular heat exchangers.

IMPROVED RELIABILITY DUE TO ALL WELDED CONSTRUCTION:

- ◆ No gaskets to fail.

LOW INTERNAL VOLUME:

- ◆ Maximum single circuit capacity 76 fluid ounces (2.2 liters).

COMPACT MODULAR DESIGN:

- ◆ Offers easy installation and servicing. Manifolding is simplified for larger applications.

IMPROVED EFFICIENCY:

- ◆ Heat loss is low, requiring little or no insulation.

INNOVATIVE DESIGN:

- ◆ Cylindrical dimpled plate design wound into a self-enclosed spiral provides extremely high thermal transfer for package size. Patented fabrication.

TEMPERATURE RANGE:

- ◆ -60°F (-50°C) to 480°F (250°C).

PRESSURE RATING:

- ◆ Axial (Circuit A): 230 PSI (1586 kPa or 16 bar).
- ◆ Spiral (Circuit B): 360 PSI (2482 kPa or 25 bar).

CHEMICAL COMPATIBILITY:

- ◆ Chemistries compatible with 316L (Circuit A & B) and silicon baffles (Circuit B only).

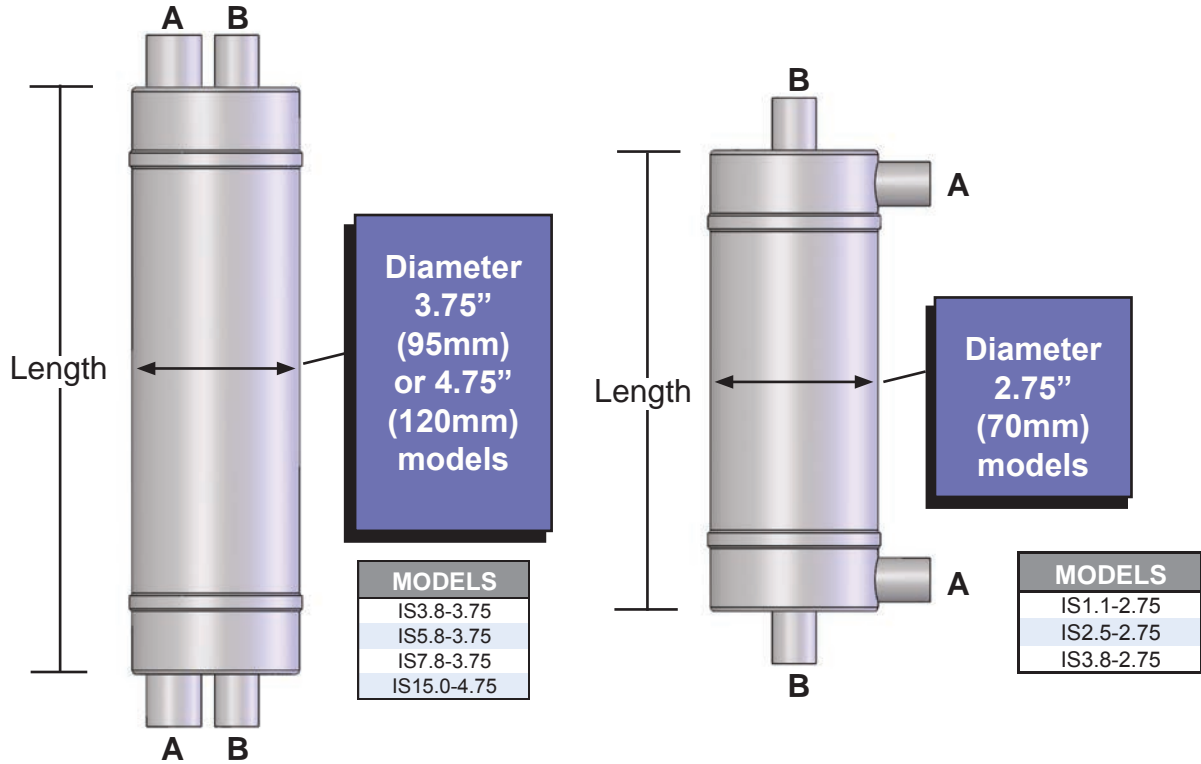
APPLICATIONS:

- ◆ Industrial, process system, cogeneration, solar, anodizing, plating, electronics, commercial & industrial washers, evaporators/condensers, chillers, heat recovery, boilers (steam and water), vapor recovery, and water heaters.

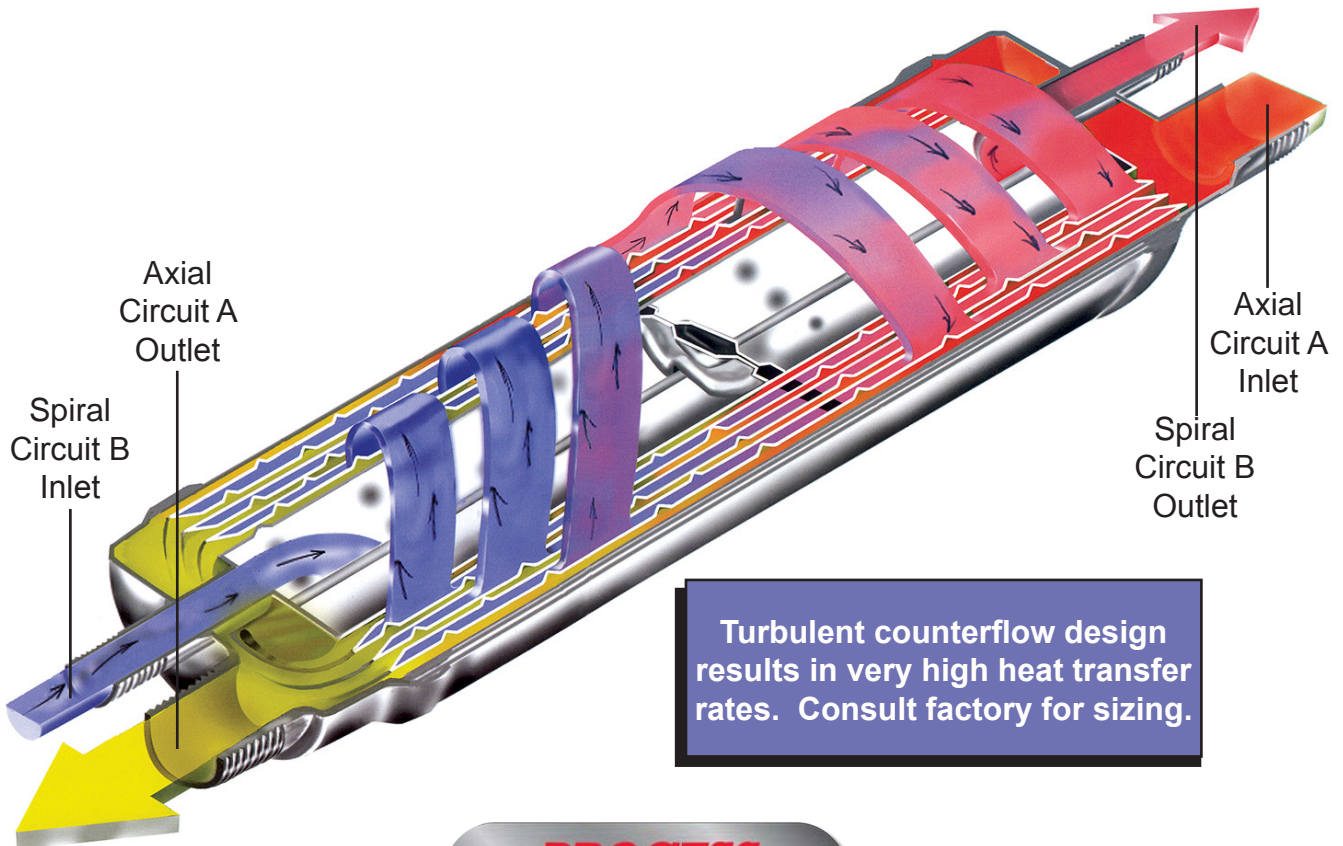
SIZES:

- ◆ Seven sizes from 1.1 ft² (.10m²) to 15 ft² (1.4m²). Compact cylinders from 3" (70mm) x 6" (158mm) to 5" (120mm) x 20" (515mm).

DIMENSIONS



FLOW PATHS



**PROCESS
TECHNOLOGY**