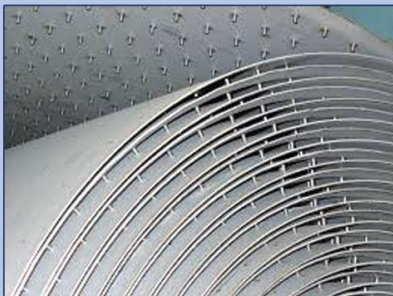
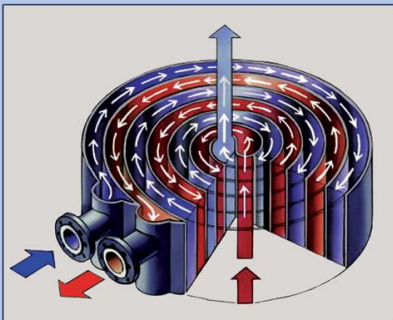


Spiral Plate Heat Exchanger Technology



DESCO-HELIX™ Spiral Plate Heat Exchangers

DESCO has developed the DESCO-HELIX™, a spiral plate heat exchanger, for heating, cooling, heat recovery and condensing applications in various industries, especially the pharmaceutical, paper, food, petrochemicals and steel industries.

The design consists of two (2) strips of metal, separated by spacer studs wound around a core, creating two (2) flow passages. The cross-section of the flow passages are controlled by the stud height and the width of the strip .

The relatively large flow channels yield low pressure drops. However, the concentric nature of the flow passages, combined with interruptions by the spacer studs, yields turbulent flows even at low Reynolds numbers, increasing heat transfer and reducing fouling.

The units can operate in a cross or counter current flow pattern, and can handle viscous liquids, slurries and sludges with up to 45% suspended solids.

Diversified Engineered Solutions Company

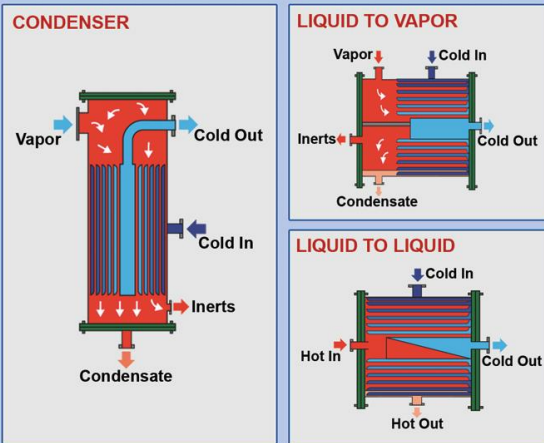
DESCO-HELIX™ are available in several compact sizes that can be easily installed with minimum costs.

Available designs:

- Channel spacing: 8 mm to 35 mm
- Channel Width: 300 mm to 1,000 mm
- Area: 1 m² to 16 m²
- Design Pressure: Full vacuum to 10 bars
- Design Temperature: -100°C to 450°C

Available Materials of Construction:

- Carbon Steel
- Austenitic Stainless Steel (304L, 316L)
- "Duplex" Stainless Steel

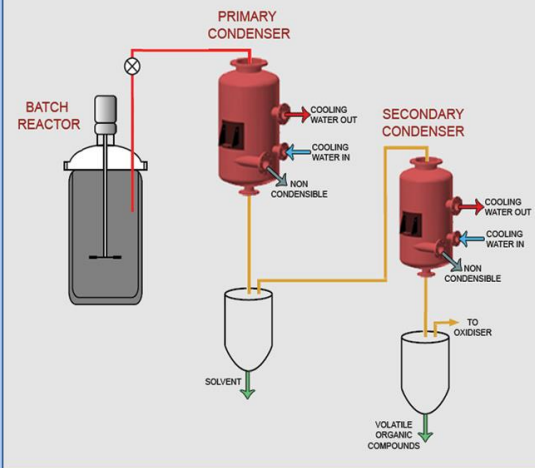


In the pharmaceutical industry, the DESCO-HELIX™ sizes are based on the size of the reactor where the solvents are to be condensed and recovered.

Typical sizes are listed below:

Reactor Size	DESCO-HELIX™ Area
1KL to 2KL	2.0 m ²
3KL to 4KL	4.0 m ²
5KL to 6KL	10.0 m ²
8KL to 10KL	14.0 m ²

TYPICAL PHARMACEUTICAL APPLICATION FOR SOLVENT RECOVERY



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