



A Member of



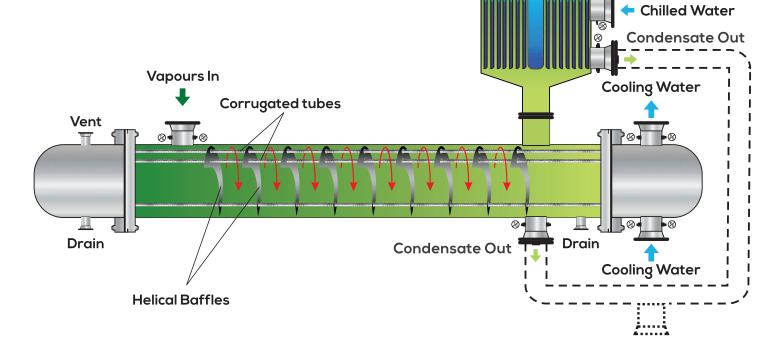
REPLACE YOUR PRIMARY AND SECONDARY CONDENSERS WITH KCS*



KCS^m

Condensing System







Chilled Water

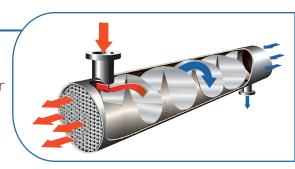
🛘 🔷 Inert Gases

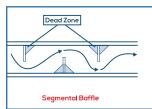
With thermal design and process guarantee

Advantages

Higher Shell side Heat Transfer Coefficient

The Helical Baffle in the primary condenser promotes swirling movement of vapor on the shell side thereby generating higher turbulence which leads to a higher heat transfer coefficient, resulting in a compact heat exchanger.







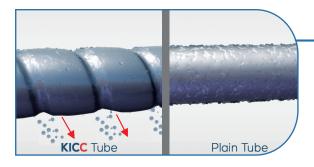
No Dead zones

Due to the unique swirling motion of vapor on the shell side, the vapor is forced to move through the dead zones which generally occur due to segmental baffles, eliminating the dead zones, resulting in a higher heat transfer coefficient.

Higher Tube side Heat Transfer Coefficient

The KICC Corrugated Tube enhances the tube side coefficient by generating turbulence inside as well as outside the tube resulting in a higher heat transfer coefficient.



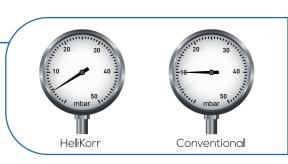


Enhanced Dropwise Condensation

Due to the inclined baffle, flow is directed over the tube surface at an angle which also helps to remove any condensate film attached to the tube surface. This enhances the heat transfer coefficient.

Low Pressure Drop in HeliKorr

Helical baffle heat exchanger has low pressure drop on shell side when compared with segmental baffles. Due to the inclination in baffles less resistance is faced to the flow of the fluid resulting in the low pressure drop.

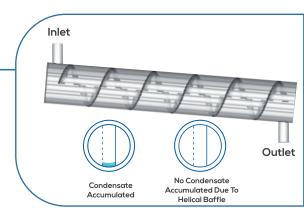


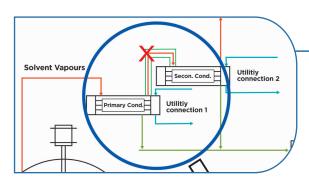
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Advantages

Better Drainability

Due to the helical baffle, the condensate does not get accumulated in the exchanger, providing excellent drainability.





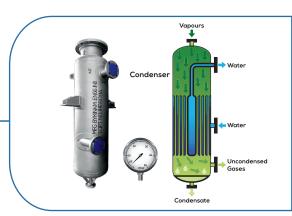
Elimination of Piping

Complete piping cost between the primary and vent condenser is avoided in Kinam's condensing system which leads to a smaller footprint and economical system.

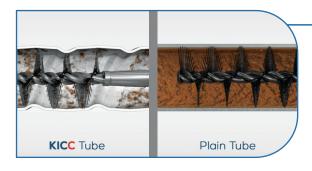
Low Pressure Drop in Spiraleco



The Spiraleco has insignificant obstruction to the flow of vapor, resulting in negligible pressure drop, facilitating use in full vacuum conditions.



Reduced Fouling & Self-cleaning effect



The continuous curving flow channel in the Spiraleco causes a self-cleaning effect that prevents depositionfouling. Also the higher periphery turbulence in the Corrugated Tube does not allow the suspended solid particle in the tubes to settle thus giving a self-cleaning effect which results

in reduced fouling.

Self Cleaning Effect

Lower Operating Cost

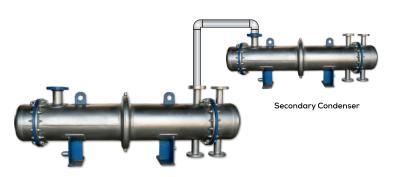


Lower operating cost: Reduced Maintenance & overall lifecycle costs along with Low Utility Cost

KCS condensing system is specifically designed for the needs of the pharmaceutical industry

Other Heat Exchangers

Kinam's Condensing System (KCS)







Heat Transfer Coefficient
Size
Temperature Distribution
Solvent Recovery
Fouling
Pressure Drop
Сарех
Drainability
Operating Cost
Piping

Low	_
Huge	_
Non Uniform	-
Low	_
High	_
High	_
High	_
Partial	_
High	_
Required	_

Very High	++
Compact	++
Uniform	+
Very High	++
Low	+
Low	+
Low	+
Full	+
Low	+
Not Required	+

#EfficiencyMatters



OFFICE:

Kinam En ineerin Industries Private Limited

Plot No. 112, 1st Floor (Part-01), Sion Garage Building, Above Croma, Near Sion Circle, Sion (East), Mumbai - 400022 T: +91-22-46177689 / 022 46177688 / 022 46177687

FACTORY:

Plot No. M-4, MIDC, Pale Phase-III, Industrial Area, Additional Ambernath, Village – Pale, Taluka Ambernath, District – Thane 421506, India.