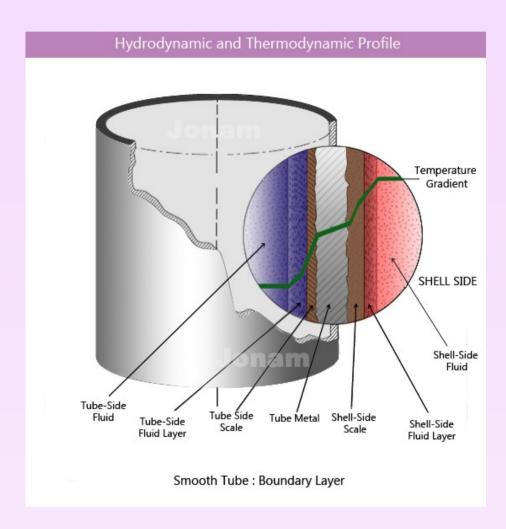
Indento Corrugated Tube Heat Exchangers

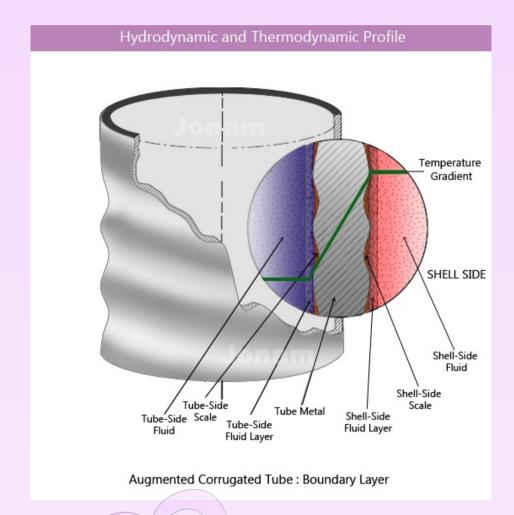


Jonam applies Corrugated tubes in its shell and tube heat exchangers. The corrugated profile on the inner and outer side of the tubes creates extra turbul ence. It disrupts the boundary layer near the tube wall where most of the resistance to the heat transfer takes place. The boundary layer near the tube wall helps the fouling to build up due to zero velocity at the tube walls. The extra turbulence created due to corrugation reduces the formation of fouling layers.

Jonam has heat exchangers for Industrial applications based on TEMA and ASME configurations. The heat exchangers find successful application in heat recovery, condenser and re-boilers. The major advantage of the Augmented tube heat exchangers are

- Lower and reduced fouling
- Increased heat transfer due to increased turbul ence
- Lower heat transfer area is obtained for a given heat transfer duty.
- Reduction in the size / length of the heat exchanger. Lower floor space / foot print .





Type of Duty	Applications	Industry
Liquid –Liquid Vapor –Liquid	Preheating, Heating, Cooling and Heat Recovery Process Condensers, Reflux Condensers, Vacuum Condensers, Vent Condensers, Re-boilers, Gas	Petrochemicals, Refinery, Steel Making, Textile, Pulp and Paper, Metal / Ore Processing, Waste water treatment, Veg. Oil Refining, Compressor, Pharmaceutical,
Vapor	Air Coolers, Steam Condensers	Distillery and Fruit Processing

Applications:

Heaters, Condensers, Coolers, Regenerators Thermic fluid heaters, Re-boilers – Thermosyphons and forced circulations etc

Industry:

Chemical Process Industry, Edible oil industry, Pharmaceutical industry, Petrochemical

Advantages:

- Augmentation on the tube side and shell side.
- Reduction in the heat transfer area
- High Thermal efficiency
- Low fouling occurence and higher running times.
- Increased heat transfer is obtained was compared to smooth tubes.
- Reduces the overall size / length of the heat exchanger.

Jonam Engineering Technologies Pvt Ltd.

3rd Floor,Bidkar Icon,Tri-Dal Hanuman Mandir Lane, Opp.Rahul Nagar, Near Karve Statue, Kothrud, Pune 411 038,Maharashtra, India

Telephone: + 91-20 25453016, 25452759 Email: getinfo@jonam.co.in