



TUBE BUNDLES

For Air Cooled Heat Exchangers (ACHE)



Tube bundles, the core component of Air Cooled Heat Exchangers, where the actual process of heat transfer takes place. Each bundle is designed as a complete, self-contained assembly for easy handling, installation, and maintenance.

Key Features & Construction

- **Integrated Assembly:** Comprises inlet & outlet/return header boxes connected through finned tubes, firmly supported by side frames and interconnecting beams.
- **Robust Design:** Supplied as a single entity, ensuring rigidity and reliability under demanding process conditions.
- **Cooling Mechanism:** Process fluid flows inside the tubes, while ambient air—forced across the finned surface by fans—provides efficient cooling.

Engineering Excellence

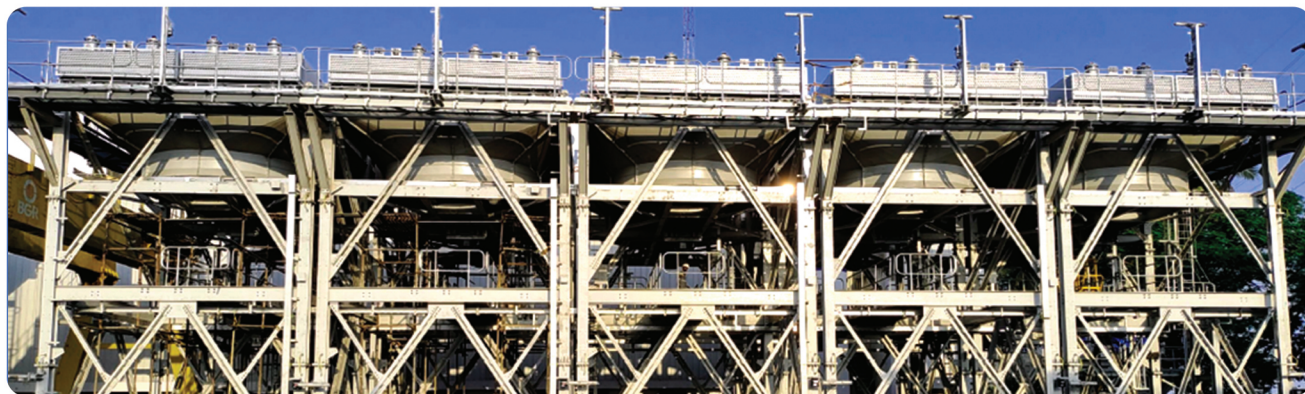
- **Critical Component:** As the most vital part of the air cooler, utmost care is taken in Design, Material Selection, and Manufacturing.
- **Custom Engineering:** Tube bundles are tailored to customer and Consultant Specifications, Addressing Special Design, Metallurgical, and Performance Requirements.
- **Thermal Design:** Performed using **HTRI** software, ensuring optimized performance for diverse process applications.
- **Mechanical Design:** Developed in-house using programs based on **ASME Sec. VIII Div. 1 & 2, API 661 standards, and specific customer needs.**

Why Choose Our Tube Bundles?

- ✓ Precision Engineered for Performance & Reliability
- ✓ Backed by International Codes & Standards
- ✓ Designed with Global Software & In-House Expertise
- ✓ Fully Customizable to Meet Unique Process Requirements

Customization Options

- **Header Boxes:** Available in multiple types, selected based on process fluid properties and operating conditions.
- **Finned Tubes:** Type and tube-to-tube sheet joints are carefully chosen to match the operating temperature, pressure, and fluid characteristics.



MOC: CS including LAS, SS, DSS, SDSS, Incoloy 825, Incoloy 625, 6 MO etc. | Max Hydro Test Pressure: 696 Kg/CM²

Installed in 29+ Countries | Annual Header Box Capacity - 1,070 | Annual Tube Bundle Capacity - 750



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