CAIRO TECHNICAL CENTER

SUPPLYING . SERVICES . CONTRACTOR

Finned Tubes



Belbis City, Industrial Area, behind Air College, Block No. 518
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Introduction:

▪ *Welcome to Our World of Extraordinary Finned Tubes*

Prepare to take a deep dive into the realm of cutting-edge heat transfer technology & discover the unparalleled power of our specialized finned tubes. We are thrilled To guide you through an unparalleled journey where innovation meets functionality Revolutionizing industries across the globe.

At CTC, we take immense pride in our pioneering advancements in finned tube Design and manufacturing. Our team of skilled engineers & industry experts Has harnessed their collective expertise to create a transformative product that Optimizes heat transfer efficiency in ways you've never experienced before.

Embrace a new era of thermal performance as our meticulously-engineered finned Tubes unlock a wealth of benefits. From enhanced heat dissipation to increased Surface area, our state-of-the-art fins are meticulously designed to tackle the most Demanding heat exchange challenges with unparalleled precision & effectiveness.

What sets our finned tubes apart is not only their exceptional performance, but Also their exceptional versatility. As industry leaders, we understand that every Application is unique, which is why we offer an extensive range of finned tube Configurations to cater to your specific needs. Whether you require spiral fins, Extruded fins, or embedded fins, our comprehensive selection ensures a tailor-made Solution for your heat transfer requirements.

Quality is the cornerstone of our manufacturing process. With stringent quality Control measures in place & adherence to international standards, we guarantee That every finned tube that leaves our facility exceeds expectations. Meticulously Inspected & tested, our products are built to withstand the most demanding Operational environments, ensuring long-lasting performance & unrivaled Durability.

Our commitment doesn't end with the delivery of exceptional products. We firmly Believe in forging lasting partnerships, collaborating closely with our clients to Understand their unique needs & provide comprehensive support every step of The way. With our team of dedicated professionals, we offer unrivaled technical Assistance, expert guidance, & prompt customer service, ensuring your utmost Satisfaction throughout your journey with us.

Get ready embark on transformative experience with our revolutionary finned tubes.

Trust in our expertise, rely on our dedication, & explore the endless possibilities that Our finned tubes bring to your industry.

Join us in revolutionizing heat transfer technology. Explore our expansive range of Finned tubes today & unlock the power of next-generation thermal performance. Let's Redefine what's possible together!

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Types of Fins:

Extruded Fins: These robust fins are created by extruding Metal strips & securely attaching them to the tube, providing Exceptional heat transfer performance.
They are widely used in applications such as air-cooled Heat exchangers, air conditioners, refrigeration systems.



Helical Fins: Helical fins are tightly wound around the Tube in a spiral pattern, maximizing the surface area & Improving heat transfer efficiency. They find applications In industries where space is limited, such as automotive Radiators & compact heat exchangers.

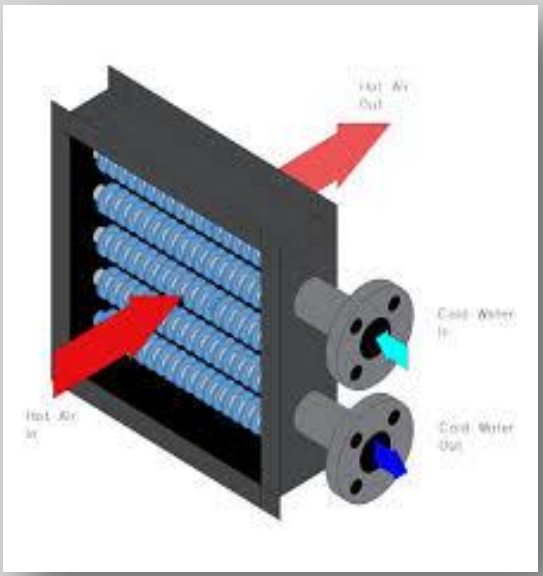
Plate Fins: Plate fins are flat and rectangular in shape, Welded or brazed to the tube. They offer high thermal Conductivity & are commonly employed in industries Such as aerospace, power generation, & oil refineries.



Spiral Fins: Similar to helical fins but with a looser Spiral pattern, spiral fins provide reliable heat transfer Performance & are extensively used in air heating Systems, boilers, & gas turbines.

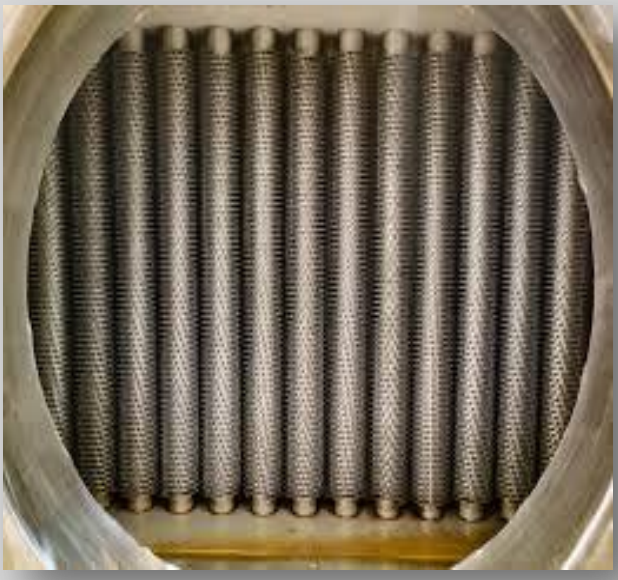
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Finned Tube Arrangements:



Radial Fins: Radial fins are arranged perpendicular To the tube's axis in a circular pattern, allowing for Efficient heat dissipation or absorption from all Directions. They are employed in applications such as Air-cooled heat exchangers & coolers.

Longitudinal Fins: Longitudinal fins run parallel to The tube's axis, facilitating efficient heat transfer in a Specific direction. This arrangement is commonly used In industries where precise temperature control is Essential, such as HVAC (Heating, Ventilation, & Air Conditioning) Systems & process heaters.



Combination Fins: Combination fins incorporate Both radial & longitudinal fins on the same tube, Offering enhanced heat transfer capabilities for Specific applications. They are utilized in a variety Of industries, including power plants, chemical Processing, & food and beverage production.

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Benefits of Finned Tubes:

- **Enhanced Heat Transfer Efficiency:**

Finned tubes significantly increase the surface area available for heat transfer, Resulting in improved efficiency & reduced energy consumption.

- **Compact Design:**

By efficiently transferring heat in a smaller space, finned tubes enable compact Equipment design, making them an ideal choice for applications with limited Space constraint.

- **Temperature Control & Uniformity:**

Finned tubes offer precise temperature control & uniform heat distribution, Ensuring the efficient operation of various systems such as HVAC, power plants, & industrial processes.

- **Corrosion Resistance:**

With the appropriate selection of materials, finned tubes can provide excellent corrosion resistance, guaranteeing durability & long-term reliability in harsh environments.

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