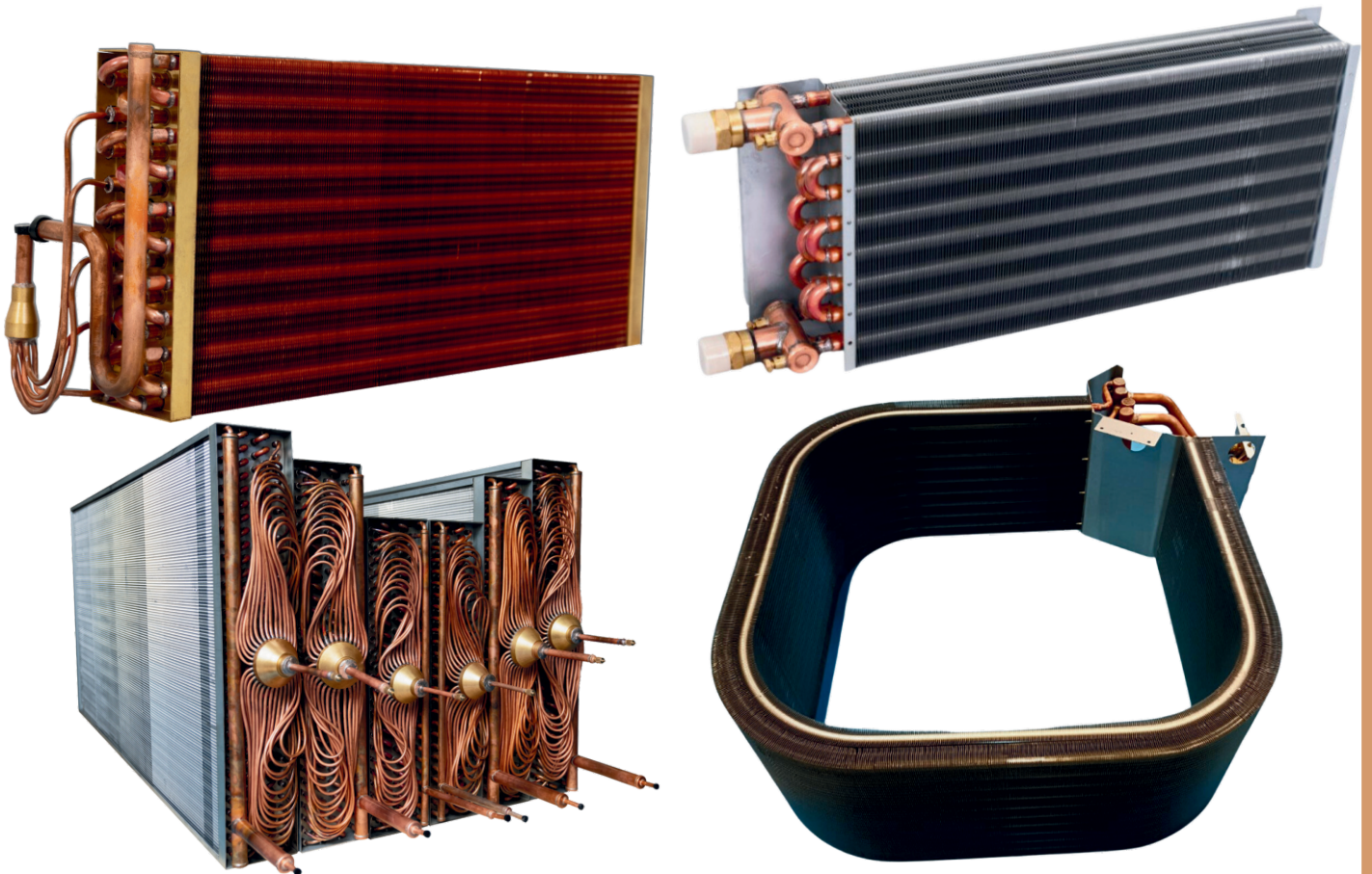




KRN HEAT EXCHANGER &
REFRIGERATION LIMITED

PRODUCT



CATALOGUE

Seamless Integration, Superior Performance:
India's Finned Tube Heat Exchangers for Global
HVAC&R

www.krnheatexchanger.com

KRN Heat Exchanger at a glance

A leading manufacturer & exporter of fin and tube type condenser and evaporator coils for OEMs in heating, ventilation, air conditioning and refrigeration (HVAC&R) industry.



Expertise in

FIN & Tube Type
Heat Exchanger



Net Sales

Over 1 million
units annually



Factory Area

Spread across
8,00,000 Sq. ft



Founded

year 2017 in
Neemrana,
India



VISION

To pursue and consolidate
the position of Leadership
through Dedication,
Innovation and Passion.



MISSION

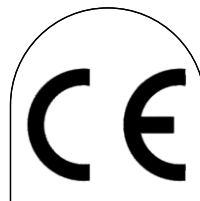
Our goal is to maximize
value for our clients
by delivering cost effective
products and services
through seamless
integration of people,
technology, processes, and
business systems.



VALUES

To deliver excellent custom
solutions following
international standards,
continuously improving our
products and processes for
long-lasting results.

CERTIFICATIONS



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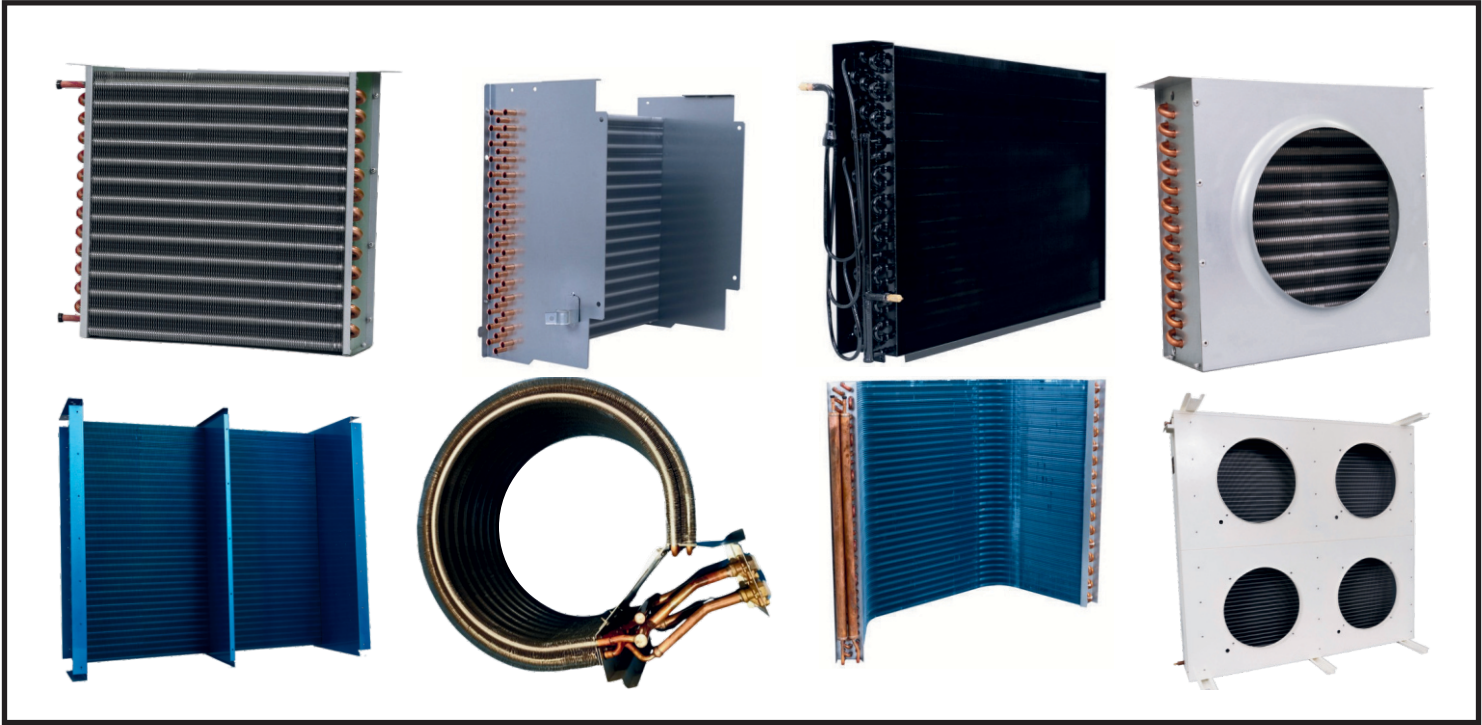
+91 8619207672



santoshyadav@krnheatexchanger.com

Our Products

- **Tailored to Your Needs:** Experience unparalleled customizability to meet your specific requirements.
- **Timely Delivery:** Receive your products promptly within 4 weeks (shipping time not included) for efficient project planning.
- **Extensive Design Expertise:** Benefit from our extensive design acumen backed by over 20 years of industry experience.
- **Safety Assurance:** Rest easy with UL-approved coils that adhere to rigorous safety standards.



Product Range

| Product Range | | | | | | | | | | | |
|-----------------------|---|-------------------------|---------------|-------------------------|-------------------------|-------------------------|--------------------------|-------------------------|--------------------------|--|------------------|
| Tube OD | 5 mm | 5 mm | 5 mm | 7 mm | 7 mm | 7 mm | 9.52 mm | 9.52 mm | 12.7 mm | 12.7 mm | 15.88 mm |
| Tube Pitch | 19.05 mm | 19.05 mm | 14 mm | 21 mm | 22 mm | 25 mm | 25.4 mm | 25.0 mm | 30.0 mm | 31.75 mm | 38.1mm |
| Row Pitch | 16.5 mm | 11.4 mm | 10 mm | 12.7 mm | 19.05 mm | 21.65 mm | 22 mm | 21.65 mm | 26.0 mm | 27.5 mm | 33 mm |
| Fin Thickness (mm) | 0.095 ~ 0.25 | 0.095 ~ 0.25 | 0.095 ~ 0.115 | 0.095 ~ 0.25 | 0.095 ~ 0.25 | 0.095 ~ 0.25 | 0.095 ~ 0.30 | 0.095 ~ 0.30 | 0.095 ~ 0.30 | 0.095 ~ 0.30 | 0.095 ~ 0.30 |
| FPI | 6 ~ 22 | 11~ 22 | 19 ~22 | 7 ~ 22 | 6~22 | 6~22 | 4 ~ 22 | 4 ~ 22 | 3 - 22 | 3 - 22 | 4 - 20 |
| Expansion Length (mm) | 150 ~ 8000 | 150 ~ 4000 | 300 ~ 2500 | 150 ~ 2500 | 150 ~ 2500 | 150 ~ 12000 | 150 ~ 12000 | 150 ~ 12000 | 150 ~ 12000 | 150 ~ 12000 | 150 ~ 12000 |
| Fin Type | Plain, Louver, V-Waffle | Plain, Louver, V-Waffle | Plain, Slit | Plain, Louver, V-Waffle | Plain, Louver, V-Waffle | Plain, Louver, V-Waffle | Plain, Louver, Sine Wave | Plain, Louver, V-Waffle | Plain, Louver, Sine Wave | Plain, Louver, Sine Wave, Heating hole | Plain, Sine Wave |
| Sheet Metal | GI, Al, Cu, Brass and SS | | | | | | | | | | |
| Fin Material | Al and Copper | | | | | | | | | | |
| Anticorrosion Coating | Coating Types : Powder, Heresite, Nano, CED, Tin or as per customer requirement | | | | | | | | | | |



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Condenser Coils

- We offer condensers in three designs: end plates only, frames, and casings. Casings are available in galvanized steel, aluminum, or stainless steel.

Special applications include brass and copper end plates and frames.

Customizable colors for coils are available on request. We also manufacture bent coils for compact condensing units and chillers, and our condensers can be equipped with a subcooling circuit and additional valves on headers.

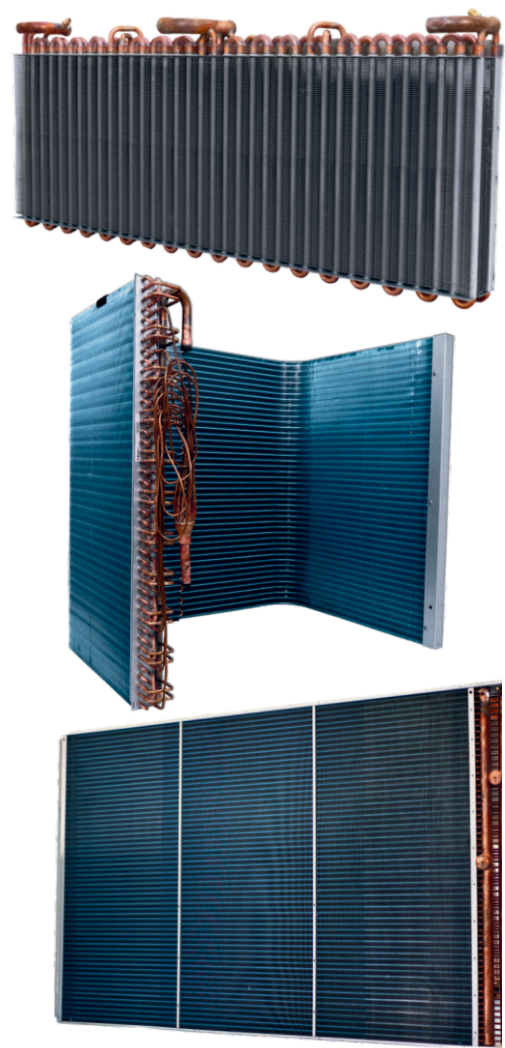


Evaporator Coils

- KRN offers a diverse range of evaporator coils with finspaces ranging from 1.15 to 8.5 mm, enhanced by a hydrophilic precoating on the fins.

Our air evaporators are equipped with multiple cooling circuits, balanced for equal refrigerant distribution. For industrial and transport applications, we offer the option to combine two evaporators into a single block.

Defrosting options include electrical heaters or a specialized hot gas circuit. we also manufacture bent coils with end plates, catering to both domestic and commercial needs.



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Condensing & Air Cooling Units

- We can custom manufacture condensing and cooling units of various sizes and designs, using high-grade, and high-quality materials for superior strength.

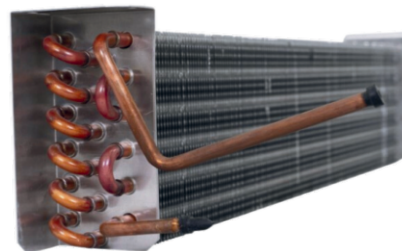
Our units offer customizable refrigerant capacity, application temperatures, and space-saving designs with excellent resistance to impact and corrosion.



Fluid & Steam Coils

- Our fluid coils feature smooth copper tubes of varying thicknesses and fins with an anti-corrosive coating.

Cooling coils come with a hydrophilic coating. Cassette ceiling fan coils customized with bent coils, including L-coils, C & G type coils, O-coils, and other special forms. Headers in fluid coils can be fitted with different connecting options and additional valves. Steam coils are designed with thicker materials to handle high temperatures, pressure, and chemicals, and allow for easy removal of condensate.



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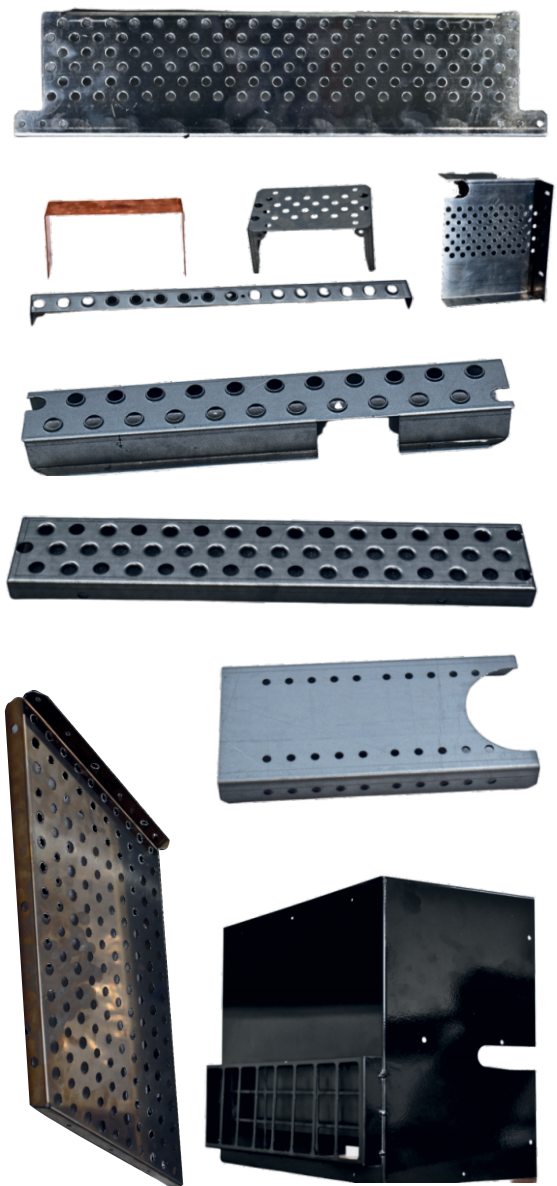
Headers (Manifolds)

- Custom manufacturing of copper headers in various shapes and sizes to match specific coil designs and applications, catering to both in-house use and clients' specific needs. Also, Copper and mild steel (MS) materials are used based on the client's needs.



Sheet Metal Parts

- KRN specializes in custom- designed sheet metal components, including end plates for in-house coil assembly. We also offer tailor-made parts crafted from high-quality raw materials for companies involved in the in-house coil assembly. We customize sheet metals to fit your design specifications precisely, ensuring optimal functionality and performance.



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DESIGN CONCEPT

M/S. KRN HVAC PRODUCTS PVT. LTD

At SP 1-24 at industrial area Kolila joga, Neemrana, Distt Alwar Rajasthan



Upcoming Products Preview

- 1. Roll bond evaporator
- 2. Frost free evaporator
- 3. Wot condenser
- 4. MCHX Heat Exchanger
- 5. Bar and plate Heat Exchanger
- 6. Ammonia Evaporator

Upcoming Product Range

| Product Range | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|
| Tube OD | 5 mm | 5 mm | 6.35 mm | 7.94mm | 7.94 mm | 9.52 mm | 15.88mm |
| Tube Pitch | 25 mm | 20 mm | 19.05 mm | 25mm | 25.4 mm | 25.4 mm | 50mm |
| Row Pitch | 21.65 mm | 17.32 mm | 16.5 mm | 19.05 mm | 15.88 mm | 15.88 mm | 50mm |
| Fin Thickness (mm) | 0.095 ~ 0.3 | 0.095 ~ 0.3 | 0.095 ~ 0.3 | 0.095 ~ 0.3 | 0.095 ~ 0.3 | 0.095 ~ 0.3 | 0.095 ~ 3 |
| FPI | 4 ~ 22 | 4.5 ~ 22 | 4.5 ~ 22 | 5 ~22 | 5 ~ 22 | 5 ~ 22 | 2~ 22 |
| Expansion Length (mm) | 150 ~ 7000 | 150 ~ 7000 | 150 ~ 7000 | 150 ~ 12000 | 150 ~ 12000 | 150 ~ 12000 | 150 ~ 12000 |
| Fin Type | Plain, Louver, V-Waffle, Angle cutting | Plain, Louver, V-Waffle, Angle cutting | Plain, Louver, V-Waffle, Angle cutting | Plain, Louver, V-waffle, Angle cutting | Plain, Louver, V-Waffle, Angle cutting | Plain, Louver, V-Waffle, Angle cutting | Plain, Louver, V-waffle, Angle cutting, heating hole |
| Sheet Metal | GI, Al, Cu, Brass and SS | | | | | | |
| Fin Material | Al and Copper | | | | | | |
| Anticorrosion Coating | Coating Types : Powder, Heresite, Nano, CED, Tin or as per customer requirement | | | | | | |



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Roll Bond Evaporators



Roll Bond Evaporator
With Suction Line



Roll Bond Evaporator
For Water Dispenser
Applications



Roll Bond Evaporator
With Inlet and Outlet



Roll Bond Evaporator
With C-Bend



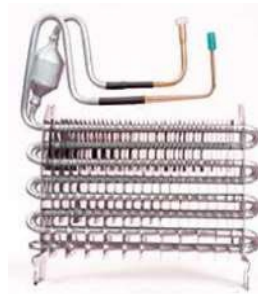
Roll Bond Evaporator
With Back Cover



Roll Bond Evaporator With
Freezer Frame Cover



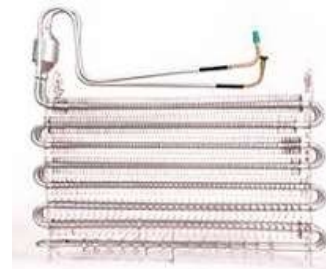
Frost Free Evaporators



Continuous Fin Type
FF Evaporator



Continuous Fin Type with
Heater FF Evaporator



Discontinuous Fin Type
FF Evaporator



Continuous Fin Type with
Heater And Accumulator
FF Evaporator



Discontinuous Fin Type with
Heater And Accumulator
FF Evaporator



Continuous Fin Type with
Heater And Accumulator
FF Evaporator



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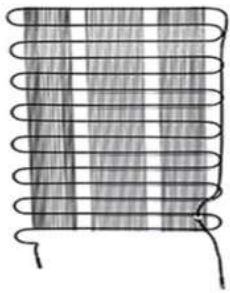


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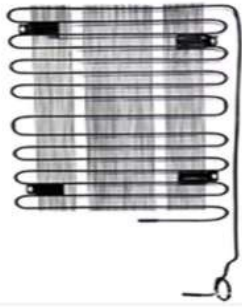


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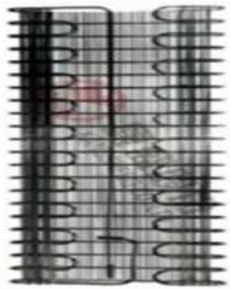
Wire On Tube Condenser



Wire on Tube Condenser



Wire on Tube Condenser with Mounting Clamp



Wire on Tube Condenser with C-bending



Wire on Tube Spiral Condenser for Chocolate Cooler



Wire on Tube Spiral Condenser for Deep Freezer

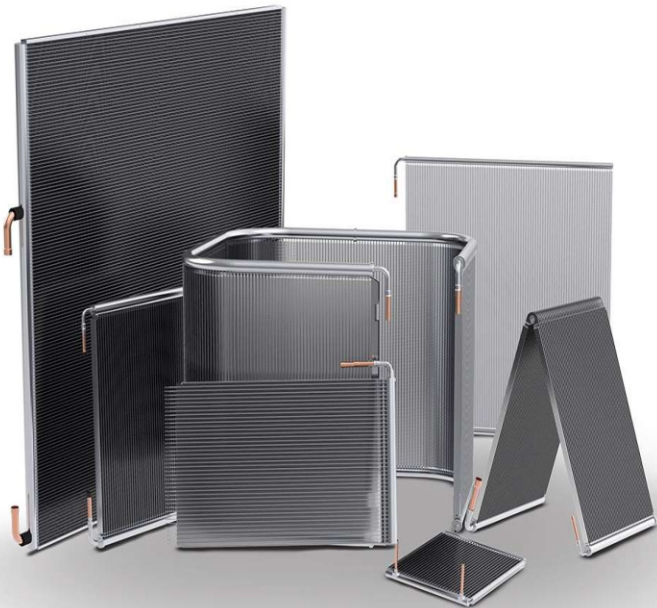


Wire on Tube Spiral Condenser for Commercial Freezer



MCHX Heat Exchanger

- Micro Channel Heat Exchangers are compact, efficient, and versatile heat exchangers that consist of flat tubes and louvered fins. They are renowned for their high heat transfer efficiency, minimal refrigerant charge, low air side pressure drop, and lightweight design. These attributes have made them increasingly popular in various HVAC-R applications.



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Bar & Plate Heat Exchanger

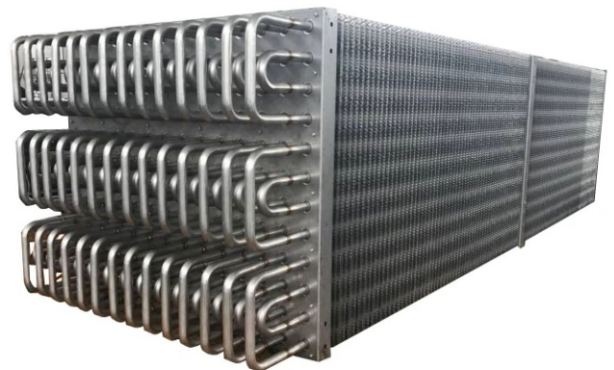
- 1) Compact structure (External Bar + Airside Fin + Inner Bar + Turbulator Fin)
- 2) High Performance and longer using life.
- 3) Higher Pressure Capability and High Vibration Working Condition.
- 4) Suitable for Heavy Duty Applications
- 5) No dedicated tooling, can produce customized cores in various sizes



Ammonia Evaporator

The ammonia evaporator is a heat exchanger designed to work in the cold section of an ammonia based refrigeration system.

Ammonia (NH₃), also known as R-717, is the preferred natural refrigerant for industrial refrigeration of meat, wine, dairy, beer, food, etc.



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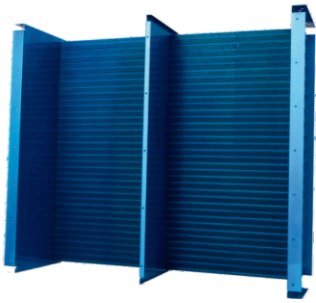


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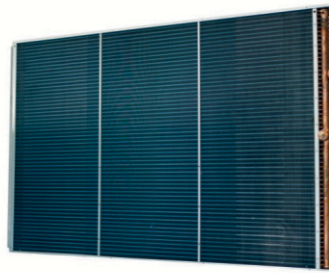


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Coating



Nano Coating



Pre Coated Blue



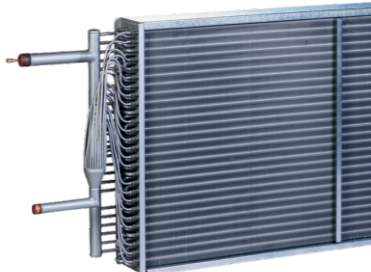
CED Coating



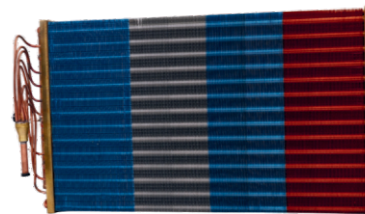
TIN Coating



Herresite Coating



Bly Gold Coating



Sample Coatings



Powder Coating

Testing



Helium leak Testing Machine



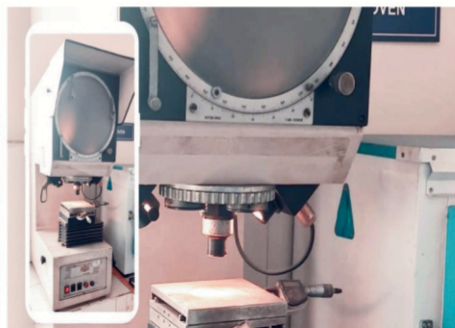
Contamination Testing



Universal testing machine



Profile Test



Profile Projector



Salt Spray Test



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Our Customers



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