

General Product Catalogue

KRN HEAT EXCHANGER AND REFRIGERATION PVT. LTD.

www.krnheatexchanger.com



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

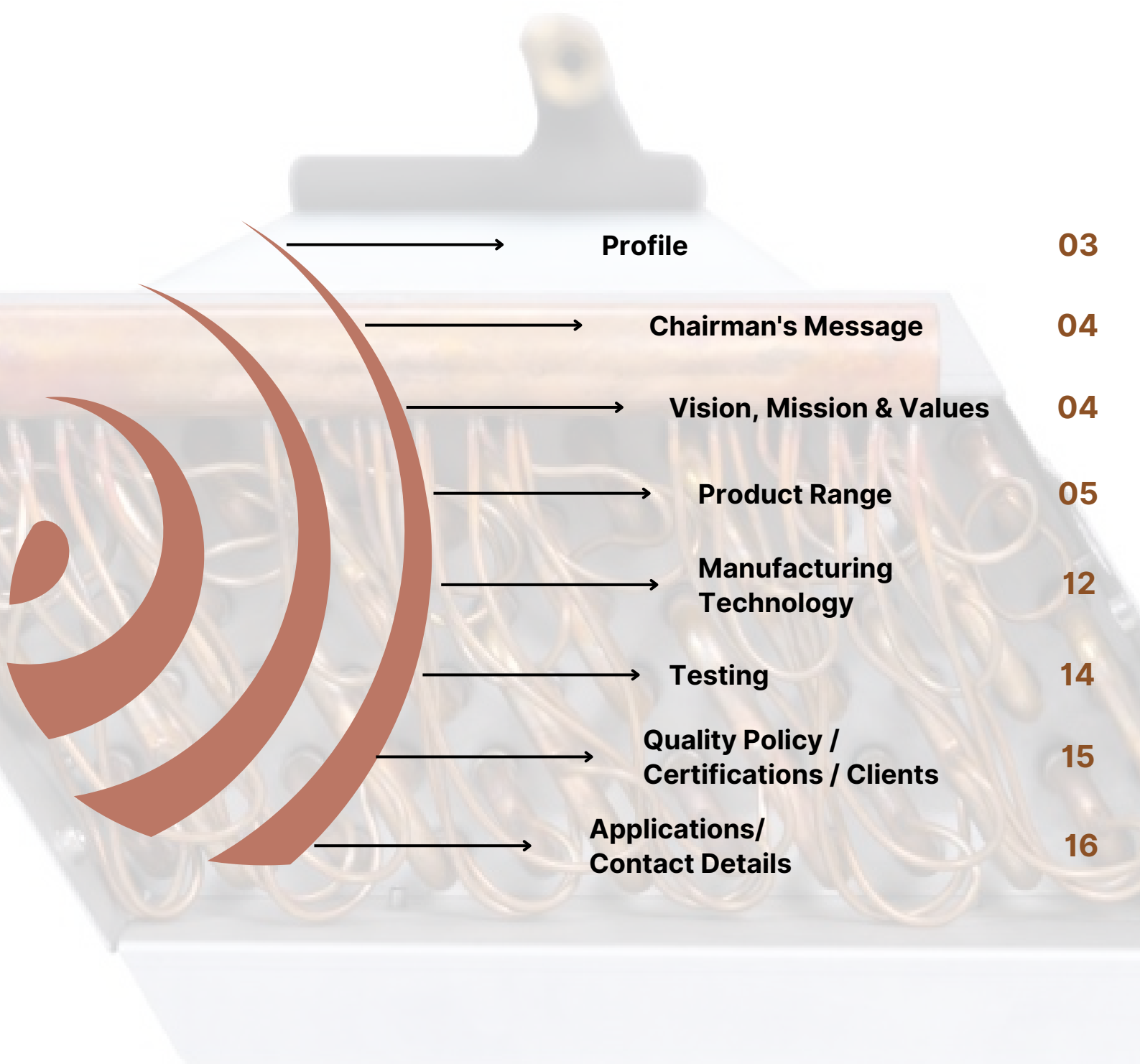
Phone

+91 8619207672

Email

santoshyadav@krnheatexchanger.com

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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.



INDUSTRY LEADER

Our products meet the national and international quality standards



CUSTOMER DRIVEN

We customize design as per customer's requirement



SCALABLE ARCHITECTURE

We accommodate changes in design and demand volume



STATE OF THE ART FACILITY

Our machines come with the latest production and testing technology



QUALITY ASSURANCE

Our products meet expectations in terms of quality, performance and safety



DESIGN EXPERTISE

We have 20 plus years of experience in engineering and manufacturing



QUICK TURNAROUND TIME

Our production time always meets the defined timeline



RESPONSIVENESS

We provide quick support and solution for existing and new requirements

Chairman's Message

“

We believe in offering the highest quality and custom designed products to our customers by leveraging the knowledge and skills of human potential and the advanced technologies available in tools and machineries.

”

Our Vision, Mission & Values

Vision

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

Mission

To maximize the value creation of all the clients of the company through supply of cost effective products, services through integration of people, technology, process and business system.

Values

To provide excellent solution to our customers in terms of customizations and in accordance with international standards. We utilize our experience for continuous improvement in our products & processes to provide long-life products to the end user.

Our Products

We manufacture fin and tube type heat exchangers made up of the highest quality raw materials. We use copper tubes and aluminium / copper fins.

All types of coils meet the required national / international standards for product quality, performance and safety like UL recognition, ISO, ISI, BS EN ISO, and BIS certification

We offer a wide range of standard as well as customized OEM coils and parts in any dimension and capacity within the defined timeline and quality parameters.

We offer anticorrosion coating for fins and tin coating for copper tubes. Our coils can perform well with a wide range of refrigerants.

Our raw materials and finished products are tested under our Standard Operating Process (SOP) at all the key stages of production.

We manufacture condensing units for some of the biggest OEM's in HVAC industry, for small household appliance units to very large industrial units.

Product Range

Tube OD	5 mm	5 mm	5 mm	7 mm	7 mm	9.52 mm	9.52 mm	12.7 mm
Tube Pitch	19.05 mm	19.05 mm	14 mm	21 mm	25 mm	25.4 mm	25.0 mm	30.0 mm
Row Pitch	16.5 mm	11.4 mm	10 mm	12.7 mm	21.65 mm	22 mm	21.65 mm	26.0 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 ~ 0.30	0.095 ~ 0.30	0.095 ~ 0.30
FPI	6 ~ 22	11 ~ 22	19 ~ 22	7 ~ 22	6 ~ 22	4 ~ 22	4 ~ 22	3 - 22
Expansion Length (mm)	150 ~ 8000	150 ~ 4000	300 ~ 2500	150 ~ 2500	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, Sine Wave	Plain, Louver, V-Waffle	Plain, Louver, Sine Wave
Casing / 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							



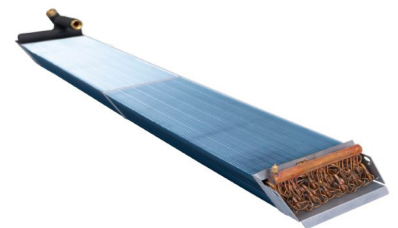
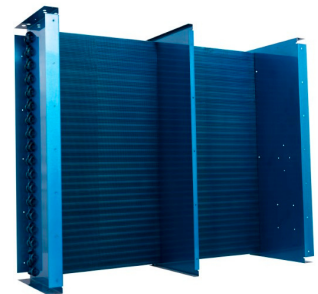
Condenser Coils

We manufacture standard & customized fin and tube type condenser coils that fulfill the national & international standards required for performance, quality and safety.



Evaporator Coils

We manufacture standard & customized fin and tube type evaporator coils that fulfill the national & international standards required for performance, quality and safety.



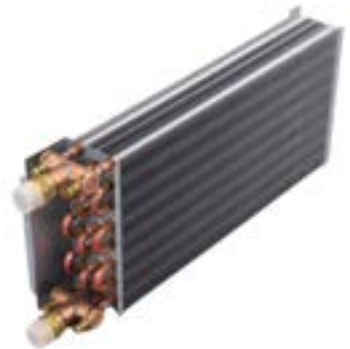
Evaporator Units / Condensing Units

We manufacture and assemble condensing and evaporator units at our own plant and supply it to some the biggest OEM's in the HVAC industry.



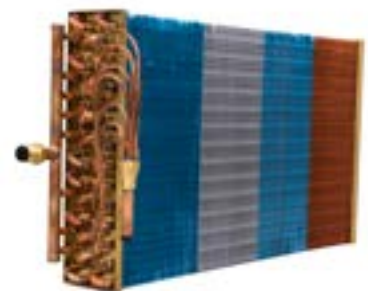
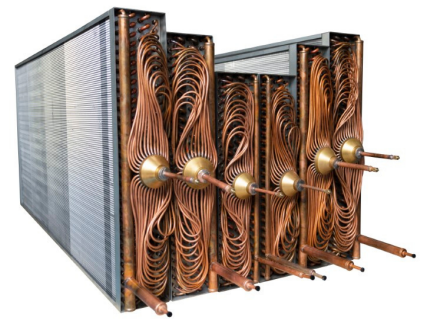
Fluid and Steam Coils

We manufacture standard & customized fin and tube type fluid and steam coils that fulfill the national & international standards required for performance, quality and safety.



Headers

We manufacture standard and customized copper headers in different design and dimensions using modern techniques and advanced machineries.



Sheet Metal Parts

We manufacture standard and customized end plates using sheet metals in different design and dimensions in our own press shop using advanced machineries.



Coil Manufacturing Machines

Our manufacturing unit is fully equipped with the latest **coil manufacturing machines** that include Hair Pin Bender, Fin Press, Expander, Helium Leak Testing.



Hairpin Bender Machine



Hairpin tubes fitted in fins



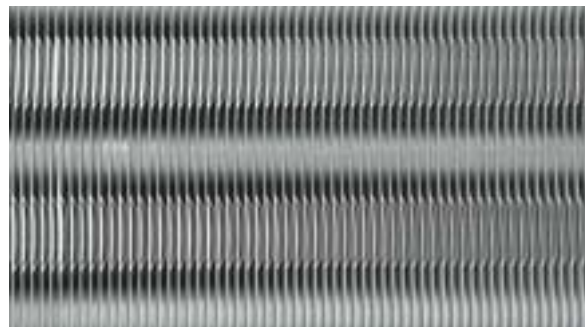
Expander Machine



Expanded ends of Tubes



Fin Press Line



Stacked Fins



Brazing



Helium Testing Machine

Press Shop & Header Manufacturing

NCT Punching and CNC bending machines are used in our **modern press shop** for in-house production of sheet metal parts.

Copper headers are manufactured using CNC Tube Bender, End Forming, Flute punching, and Tube T-drill machines.



Expander Technical Specifications

FIN PATTERN All Dimensions are in mm (Copper-Aluminium)	MECHANICAL EXPANDER			FLEXPANDER			FPI Range	FIN Gap (in mm)	Fin Surface
	Finned Length	No. of Holes	No. of Rows	Finned Length	No. of Holes	No. of Rows			
5 mm 19.05 x 16.5	1600	40	Flexible	8000	Flexible	Flexible	6 ~ 22	1.2 ~ 4.23	Plain , Louver, V-Waffle
5 mm 19.05 x 11.4	1600	40	Flexible				11 ~22	1.2 ~ 2.3	Plain , Louver, V-Waffle
5 mm 14 x 10	2500	58	Flexible				19 ~22	1.2 ~ 1.33	Plain , Slit
7 mm 21 x 12.7	2500	76	Flexible				7 ~ 22	1.2 ~ 3.6	Plain , Louver, V-Waffle
7 mm 25 x 21.65	2500	63	Flexible	12000	Flexible	Flexible	6 ~ 22	1.2 ~ 4.23	Plain , Louver, V-Waffle
9.52 mm 25.4 x 22	2500	50	Flexible	12000	Flexible	Flexible	4 ~22	1.2 ~ 6.35	Plain , Louver , Sine Wave
9.52 mm 25.0 x 21.65	2500	63	Flexible	12000	Flexible	Flexible	4 ~22	1.2 ~ 6.35	Plain , Louver, V-Waffle
12.7 mm 30.0 x 26.0				12000	Flexible	Flexible	3 ~22	1.2 ~ 8.46	Plain , Louver , Sine Wave

Testing

We produce coils of international standards, in terms of performance, quality and safety. Our coil manufacturing facility includes latest testing technologies and practices. Some of the quality tests performed during heat exchanger production at KRN include:



Salt Spray Test



Cyclic Pressure Test



Burst Test



Universal Testing Machine (UTM)



Contamination Test



Air Tight Leak Test



Profile Projector



Helium Testing Machine

Quality Policy

“ We are committed to produce consistent quality products at competitive price to meet our esteemed customer’s satisfaction by adopting systematic approach to excellence teamwork, motivation, training, and involvement of our employees in accordance with quality management standards for its continual improvements. ”

Certifications



BS EN ISO 13134 & 13585 Certified
(Brazeing Procedure & Brazers)

Our Customers



Applications



Residential AC



Data Centre Cooling



Automotive HVAC



Beverage Coolers



Commercial HVAC



Precision Air Conditioning



Railway/Metro HVAC



Fan Coil Unit FCU



Cassette type HVAC



Vending Machines



Defence Air Conditioning



Cloth Dryer/Washing Machine



Commercial Refrigeration



Water Coolers



Construction and Civil



Chest Freezers

Questions? Contact Us...

Email

santoshyadav@krnheatexchanger.com

Contact Number

+91 8619207672

Linkedin

<https://www.linkedin.com/company/krn-heat-exchanger-refrigeration-pvt-ltd>

Location

KRN Heat Exchanger and Refrigeration Pvt. Ltd.
F-46 to 49, E.P.I.P. RIICO Industrial Area,
Neemrana, Rajasthan, India - 301705

Website

www.krnheatexchanger.com