

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



### **Overview**

### At a glance

**Established** Aug-17

Factory Area 150,000 Sqft

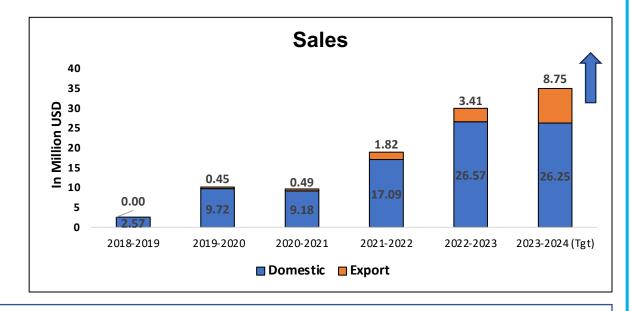
**Production Capacity** ~ 1 million units

Certifications ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018,

BIS, CE, UL, REACH and AHRI

Plant Address Plot # F-46 to F-49, E.P.I.P., RIICO, Neemrana, Rajasthan

- 301705 INDIA (127 kms from New Delhi)



### **Timeline**

- Certifications: QMS Certification ISO 9001:2015
- Lines established:7
   mm, 9.52 mm, and 5.0
   mm Cu Tube OD, 1.6 M
   height Single coil, IDU
   Cassette coil 5, IDU 5
   mm & 7 mm Coil, and
   2.5 M Long 3 Row

- Certifications: BIS certification against IS 11329-2018, CM /L-8400168514, UL Certification for the safety of coils
- Lines established:

   10M length coil, Helium
   Leak testing, NCT
   Punching –Sheetmetal.

- Certifications: EMS ISO 14001, OHSAS ISO 45001 QMS and AHRI.
- Lines established: 7
  mm, 9.52 mm, 12.7 mm
  in European pitch, G
  type coil and ccu idu
  unit,

- Lean manufacturing and Green Policies implementation.
- Set up an in house CED coating plant.
- Acquire additional automatic machinery for large coils.

2018-2019

2020-2021

2022

2023 onwards

### **Product Portfolio**

### **Product Categories**









Heat Exchangers

**Evaporator Units** 

Manifolds

Condensing Units

### **Key features**

- 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											
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	Plain, Sine Wave
Sheet Metal		GI, AI, Cu, Brass and SS									
Fin Material	Al and Copper										
Anticorrosion Coating	Coating Types : Powder, Heresite, Nano, CED, Tin or as per customer requirement										

# **Product Applications**



**Residential AC** 



**Commercial HVAC** 



Cassette type HVAC



**Commercial Refrigeration** 



**Data Centre Cooling** 



**Precision Air Conditioning** 



**Vending Machines** 



**Water Coolers** 



**Automotive HVAC** 



Railway/Metro HVAC



**Defence Air Conditioning** 



**Civil and Construction** 



**Beverage Coolers** 



**Fan Coil Unit FCU** 



Cloth Dryer/Washing M/c



**Chest Freezers** 

### **Manufacturing Capabilities**

### Manufacturing

### **Testing**

### Coating

# Sheet metal manufacturing includes:

- NCT turret punching machine (up to 5mm thickness and up to 0.01mm accuracy)
- Shearing machine
- Bending machine
- Power press (punching & embossing)

# Header manufacturing includes:

- CNC Tube Bender
- CNC Tube End Closer
- CNC Tube Bender TBM40
- Brazing Machine
- Tube T-Drilling Machine
- Three Position Pipe End Forming machine
- Pipe End Forming With Spinning Machine
- CNC Flute Punching Machine

### **Testing methods include:**

- Airtight leak testing
- Helium leak testing (with sniffer)
- Universal testing machine (UTM)
- Salt spray testing
- Cyclic pressure testing
- Contamination testing
- Burst testing

### **Coatings include:**

- Pre-Coated AL Foils : Hydrophilic / Hydrophobic (Blue & Bare )
- Pre-Coated AL Foils with Anticorrosion Coating
- Tin Coating on Copper Coils
- CED Coating (Cathode Electronic Deposition)
- Powder Coating
- Lacquer coating
- Anti Corrosion-Nano Coating
- Bly gold coating
- Heresite deep and spray coating

# Heat exchangers manufacturing includes:

- Fin press machine
- Hairpin bender machine
- Vertical expander

### **Certifications & Compliance (1/3)**



### Certificate of Registration

This Certificate certify that the Management System of

#### KRN HEAT EXCHANGER & REFRIGERATION LIMITED

Registered & Work Office: Plot No. F-46 to 49, E.P.I.P, RIICO Industrial Area Neemrana, Distt. Alwar, Rajasthan - 301705, India.

has been audited by ICV and found to be in compliance with the requirements of the standard

ISO 45001:2018

(Occupational Health and Safety Management Systems)

#### This certificate is valid for the following scope:

Manufacturing of Heat Exchanger (Fin and Tube Type) Condenser Coils, Evaporator Coils, Refrigeration Unit, Condensing Unit, Sheet Metal Parts & Copper Fittings.

Certificate No.
Certificate Issue Date
Certificate Re- Issue Date
2nd Surveillance Due Date
Date of Expiru

:IN/78016105/2104 :11/10/2022 :11/09/2025 :11/09/2024 :10/10/2025







#### CEO ICV ASSESSMENTS PVT. LTD.

First Floor, Prabhu Complex, Shiva Market, Pitampura New Delhi - 110034
 +91 - 11-41548315, info@icvassessments.com, www.icvassessments.com

Maidty of this Certificate is subject to completion of surveillance audit on or better of dux date. In case, Surveillance audit on allowed to be consulted this Certificate shall be superiode? whithdrawel.
 This Certificate is intellectual Property of ICV and Certificate shruid be returned to ICV in case of non compliance of certificate property. An extension of this certificate can be verified at www.icvasesements.



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has been audited by ICV and found to be in compliance with the requirements of the standard

ISO 14001:2015

(Environmental Management Systems)

#### This certificate is valid for the following scope:

Manufacturing of Heat Exchanger (Fin and Tube Type) Condenser Coils, Evaporator Coils, Refrigeration Unit, Condensing Unit, Sheet Metal Parts & Copper Fittings.

 Certificate No.
 :1N/17016104/5560

 Certificate Issue Date
 :11/10/2022

 Certificate Re-Issue Date
 :11/09/2023

 2nd Surveillance Due Date
 :11/09/2024

 Date of Expiru
 :10/10/2025







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has been audited by ICV and found to be in compliance with the requirements of the standard

ISO 9001: 2015

(Quality Management Systems)

#### This certificate is valid for the following scope:

Manufacturing of Heat Exchanger (Fin and Tube Type) Condenser Coils, Evaporator Coils, Refrigeration Unit, Condensing Unit, Sheet Metal Parts & Copper Fittings.

 Certificate No.
 :1N/14506103/2104

 Certificate Issue Date
 :11/10/2022

 Certificate Re-Issue Date
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# **Certifications & Compliance (2/3)**

#### CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2141923-0

Report Reference SA45759-20210129

26-Oct-2021

KRN Heatexchanger and Refrigeration Private Limited Plot No. F- 48 & 49 E.P.I.P. RIICO Industrial Area

Neemrana, Rajasthan

India 301705

This is to certify that representative samples of

SMUR2 - Evaporators, Refrigerant - Component See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety:

UL 207, 8th Ed., Issue Date: 2009-04-20, Revision Date:

Additional Information:

See the UL Online Certifications Directory at https://ig.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product



Any information and documentation involving UL Black services are provided on behalf of UL LLC (UL) or any authorized licenses of UL. For questions, plants contact a local UL Cardoner-Service Representative at http://ul.com/abs/siste/services/



CIN No.: U29309RJ2017PTC058905

PAN No. AAGCK7380J

#### KRN HEATEXCHANGER AND REFRIGERATION PVT. LTD.

(An ISO 9001: 2015 Certified Company)

WORKS :- PLOT NO. - F 46, 47, 48 & 49, E.P.I.P., RIICO INDUSTRIAL AREA, NEEMRANA, ALWAR, RAJASTHAN, 301705

#### To Whom It May Concern

SUBJECT: REACH & RoHS compliance declaration letter

This is to certify that the products offered by KRN Heat exchanger are complying with RoHS guidelines under Directive (EU) 2015/863 & Directive 2011/65/EU.

Sr. No.	Restricted Substances	Symbol	Max. Limit
1	Lead	Pb	<1000 PPM
2	Mercury	Hg	<1000 PPM
3	Cadmium	Cd	<100 PPM
4	Hexavalent chromium	Cr[VI]	<1000 PPM
5	Polybrominated biphenyls (PBB)	PBB	<1000 PPM
6	Polybrominated diphenyl ethers (PBDE)	PBDE	<1000 PPM
7	Deca-PDE	≤ 0.1 %	<1000 PPM
8	PFOS	≤ 0.1 %	<1000 PPM
9	Asbestos	≤ 0.1 %	<1000 PPM
10	Plasticizer (as below 4 nos.):		
10.a	Bis(2-ethylhexyl) phthalate (DEHP)	DEHP	<1000 PPM
10.b	Butyl benzyl phthalate (BBP)	BBP	<1000 PPM
10.c	Dibutyl phthalate (DBP)	DBP	<1000 PPM
10.d	Diisobutyl phthalate (DIBP)	DIBP	<1000 PPM

We (KRN Heat Exchanger) also confirms that our products are compliance with **REACH** regulations

This Certificate of compliance & its accuracy are made solely on the certification/declaration documents of non-use of these substances provided by our assembly subcontractors at the time this certification of compliance letter was generated

KRN Heat Exchanger will obtain required certificate of compliance from each applicable supplier of material used in the assembly and manufacture of the coils as applicable.

For KRN HEAT EXCHANGER AND REFRIGERATION PVT. LTD.

Authorized Signatory

REGISTERED OFFICE: FLAT NO. 1004, BLOCK B, 10TH FLOOR, SKYVIEW APARTMENTS, BHIWADI, ALWAR, RAJASTHAN, 301019

# **Certifications & Compliance (3/3)**

For any other communication

Jaipur Branch Office-II-

Prithavi Raj Road, Opp-Bharat

Address:

Overseas Bank Limited ,C-Scheme, Jaipur,

JAIPUR, RAJASTHAN, 302001

Phone:

0141-2223282, 2223283,2223284

Fax:

E-Mail:

jpbo-2@bis.gov.in

www.bis.org.in, www.manakonline.in

#### BUREAU OF INDIAN STANDARDS

#### Attachment to Licence No. CM/L- 8400168514

Name of the Licensee with Name of the Product CM/L-No Indian Standard No. the Factory Address KRN HEAT EXCHANGER AND REFRIGERATION SPECIFICATION FOR FINNED PVT LTD -F48&49, E.P.I.P., TYPE HEAT EXCHANGER 8400168514 IS 11329: 2018 RIICO INDUSTRIAL AREA FOR ROOM AIR , NEEMRANA, ALWAR , CONDITIONER Neemrana: 301705

#### Endorsement No. 2 Dated 18-Oct-2022

Whereas, the licence was valid upto Nineteenth October Two Thousand Twenty Two.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 18-OCT-2022 has been extended from Nineteenth October Two Thousand Twenty Two to Eighteenth October Two Thousand Twenty Three

Other terms and conditions of licence remain same.

Branch Head (Jaipur Branch Office-II)

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002, 9 Bahadur Shah Zafar Marg, DELHI,110002

Contact No: +91 11 23230131.

23233375, 23239402

Fax: +91 11 23234062, 232 Email: info@bis.gov.in

CIN No.: U29309RJ2017PTC058905

PAN No. AAGCK7380J

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WORKS :- PLOT NO. - F 46, 47, 48 & 49, E.P.I.P., RIICO INDUSTRIALAREA, NEEMRANA, ALWAR, RAJASTHAN, 301705

Brazing procedure specification (BPS) as per BS EN ISO 13134

Approved brazing procedure

Manufacturer's brazing procedure

Examiner or Examining Body Reference No.: TUV Rheinland (India) Pvt.Ltd.

reference No.: IWTT BPS EN 13134 912 T O 31 B Cu Ag FF t 0.28 - 0.6 H 2021 37

Bangalore - Karnataka, India

Details of approved brazing procedure: IWTT BPAR EN 13134 912 T O 31 B Cu Ag FF t 0.28 - 0.6 H 2021 37

Brazing Process: Flame Brazing (912)

Joint type(s): Over Lap Joint

Parent material (s) and specification (s): 31 (COPPER to COPPER)

Brazing filler metal: Si - 0.494 % ,Su - 0.041 % , P - 6.57 % , Cu - 75.91 % , Ti - 0.097 % & Si - 16.890 %

Type and specification: Rod & B Cu Ag

Form: Kanha Testing Labs Pvt. Lld.

Method of tiller metal supply: Face Fed

Type and specification: ANSI / AWS A 5.31 Type FB3-K

Form: Global Coil Solutions

Method of flux metal supply: Automatic

Jig/fixture details: NA

Method of pre-braze cleaning: Emery Paper

Method of post-braze cleaning: HP Chemical ( Phosphoric acid )

Post-braze heat treatment (temperature-time cycle): NA

Brazing procedure details relevant to the process: As per table A.1- Relevant Brazing Variables

Involved (see Table A.1)

M/s. KRN Heat Exchanger and Refrigeration Pvt. Ltd.

Name of manufacturer's representative. Date: 07/10/2021

Name of Examiner or Examining Body: Mr.Leo Prakash Signature -

Date: 07/10/2021

REGISTERED OFFICE: FLAT NO. 1004, BLOCK B. 10TH FLOOR, SKYVIEW APARTMENTS, BHIWADI, ALWAR, RAJASTHAN, 301019

CIN No.: U29309RJ2017PTC058905

PAN No. AAGCK7380J

KRN HEATEXCHANGER AND REFRIGERATION PVT. LTD.

WORKS - PLOT NO. - F 46, 47, 48 & 49, E.P.I.P., RIICO INDUSTRIALAREA, NEEMRANA, ALWAR, RAJASTHAN, 301705

#### **BRAZER QUALIFICATION TEST CERTIFICATE**

As per BS EN ISO 13585

Designation (s): BS EN ISO 13585 912 T O 31 B Cu Ag FF t 0.28 - 0.6 H

Manufacturer's (Employer) Name and Address: M/s. KRN Heat Exchanger and Refrigeration Pvt. Ltd.

F- 48 & 49, E.P.I.P., Riico Neemrana, Rajasthan - 301705

Certificate Reference No.: TUVR / 10 - 2021 / Kamal Deep Singh / 126

BPS Reference No.: IWTT BPS EN 13134 912 T O 31 B Cu Ag FF t 0.28 - 0.6 H 2021 37

Brazer's Name: Kamal Deep Singh

Identification / Method of Identification: 2654 1113 7757, Aadhar Card

Date and Place of Birth: 22/03/1978, Puniab

Testing Standard: BS EN ISO 13585:2012

Job Knowledge: Acceptable



Variables	Test Piece	Range of Qualification
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		
Brazing Process	912	912 Flame Brazing, Torch Brazing
Material Thickness (es) (mm)	t1 = 0.28 mm & t2 = 0.6 mm	t1 - 0.14 to 0.56 mm & t2 - 0.3 to 1.2 mm
Outside Pipe Diameter (mm)	t1 - OD 9.52 mm & t2 - OD 9.52 mm	t1 - ≤ 9.52 mm & t2 - ≤ 9.52 mm
Overlap Length (mm)	6.5 mm	≤ 6.5 mm
Parent Material (s)	Group D (31)	Group D-D
Brazing Filler Type, Work Temperature	EN ISO 3677 : B Cu Ag Wire form , Solid Temperature - 670° c	EN ISO 3677 : B Cu Ag Wire form , Solid Temperature - 670 to 685° c
Brazing Filler Application	Face Fed	Face Fed / Pre - Placed
Product Type	Pipe	Pipe
Filler Metal Flow Direction	Horizontal Flow	Horizontal Flow and Vertical Down Flow
Degree of Mechanization	Manual	Manual and Mechanized

Further information is stated in the attached document or in the specification for brazing procedure No:

IWTT BPS EN 13134 912 T O 31 B Cu Ag FF t 0.28 - 0.6 H 2021 37

Type of Testing	Performed and Accepted	Not Tested	
VT & PT Testing	Accepted	-	
Radiographic Testing	-	Not Tested	
Ultrasonic Testing	+	Not Tested	
Peel Testing	-	Not Tested	
Other Test Method			
Macro Graphic Examination	Accepted	20	
Bend Test	-	Not Tested	

Confirmation of qualification by employer or other responsible

Name of Examiner of Examining Body: TUV Rheinland (India) Pvt.Ltd.

Mr. Leo Prakash

Place of Examiner or Examining Body: Bangalore - Kamataka, India

Date: 08/10/2021 Signature: -

Date of Brazing: 14/09/2021

Qualification Valid Until: 13/09/2024

Prolongation of qualification by examiner or examining body

person (every six months), (Every three years). Required for the validity of the certificate Signature Position or Title Signature Position or Title

REGISTERED OFFICE: FLAT NO. 1004, BLOCK B. 10TH FLOOR, SKYVIEW APARTMENTS, BHIWADI, ALWAR, RAJASTHAN, 301019

### **Our Clients**









**Since 2018** 

**Since 2020** 

**Since 2020** 

**Since 2021** 









**Since 2019** 

**Since 2019** 

**Since 2019** 

**Since 2020** 









**Since 2020** 

**Since 2019** 

**Since 2018** 

**Since 2019** 









Since 2019 Since 2019

**Since 2021** 

**Since 2019** 

# Team – Chairman and Director (1/2)



### **Santosh Kumar Yadav**

#### **Educational Qualifications**

- MBA Institute of Management Technology, Ghaziabad.
- · Btech University of Rajasthan.
- Acknowledged for exemplary operations skills in manufacturing, He was deputed by Luvata /Heatcraft to oversee their plant in the Czech Republic for more than 2 years.

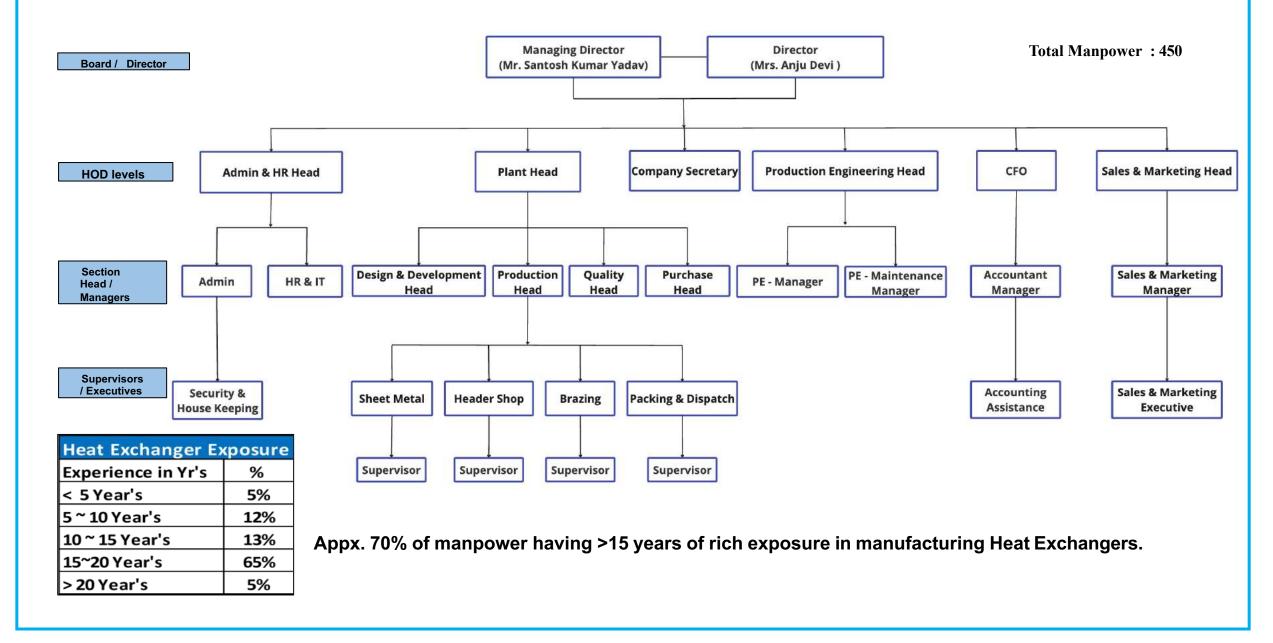
#### **Experience**

- Over 20 years of rich experience in the manufacturing of heat exchangers and refrigeration units.
- Deputy General Manager (Manufacturing Operations) -Lloyd Electric & Engineering Ltd.

#### Commitment

 Providing excellent solutions to our customers, offering customizations that adhere to international standards. Our aim is to leverage our experience in continuous improvements of products and processes, ensuring longlasting and reliable products for end-users.

# Team - Organizational chart (2/2)





# **Appendix**

# **Technology – Overview (1/7)**









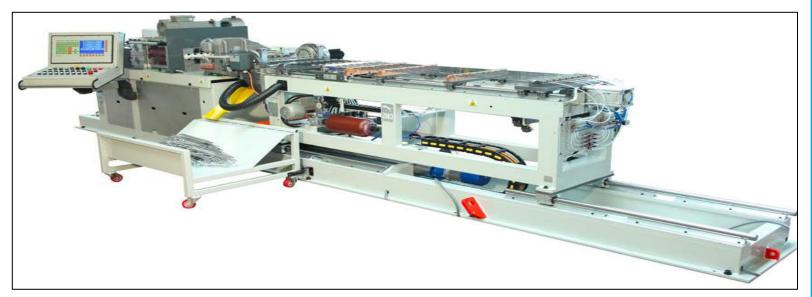


# **Technology – Coils Manufacturing (2/7)**





**Fin Press Machine** 



**Vertical Expander** 

**Hair Pin Bender** 

# Coils Manufacturing (3/7)



# **Technology - Headers Manufacturing (4/7)**







**3 Position Pipe End Forming** 



**CNC Tube End Closer** 



**Pipe End Forming With Spinning** 



**CNC Tube Bender TBM40-**



**CNC Flute Punching Machine** 

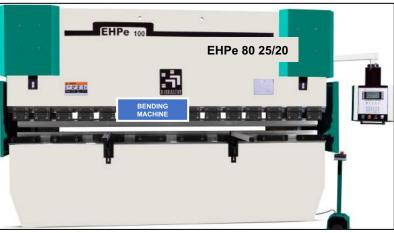


**Tube T-Drilling Machine** 

# **Technology - Sheet Metal Manufacturing (5/7)**



Power Press (Punching & Embossing)



**Bending Machine** 



**Shearing Machine** 



**NCT Punching Machine** 

# **Technology – Testing (6/7)**





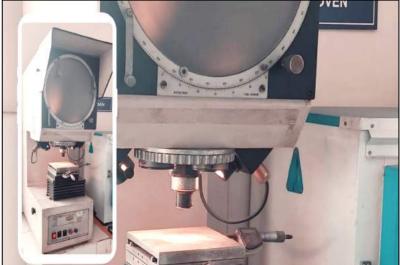


**Helium leak Testing Machine** 

**Contamination Testing** 

Universal testing machine





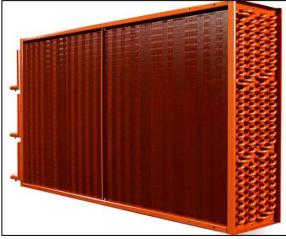


Profile Test Profile Projector Salt Spray Test

# **Technology – Coatings (7/7)**







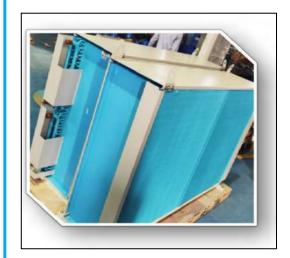


**Nano Coating** 

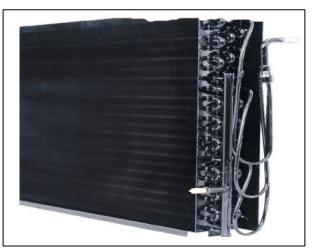
**Pre Coated Blue** 

Heresite dip & spray coating

**Powder Coating** 



Powder Coated with Nano Coating



**CED Coating** 



TIN Coating



**Bly Gold Coating** 



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

**Managing Director** 

Contact us: 

м santoshyadav@krnheatexchanger.com

+91 70236 97974

#### **International Sales Office, Europe:**

■ galina.harokova@krnheatexchanger.com

**\( +420 731 586 625** 

#### Sales Office, India:

M komal@krnheatexchanger.com



### **Achievements & Milestones for the Future**

### Transition to KRN Heat Exchanger and Refrigeration Limited: 2023

We are proud to disclose our evolution from KRN Heat Exchanger and Refrigeration Pvt. Ltd. into KRN Heat Exchanger and Refrigeration Limited. This pivotal transition represents a significant stage in our ongoing journey.

### IPO Expedition – latter part of 2024:

Our forthcoming Initial Public Offering (IPO) is planned for latter part of 2024. This landmark event reflects our sustained growth and the confidence our stakeholders have in our strategic vision.

#### Land Procurement and Initiation of Production - October 2024:

For our strategic expansion plan, we've successfully procured the land, and the construction process is currently in progress. We anticipate the initiation of production by October 2024.

### Growth: Unveiling of New Facilities: 2024

We're broadening our boundaries with the introduction of state-of-the-art facilities that encompass over 72,000 square meters. This growth aims to reshape our operations and amplify our production capacity.

### International Expansion: USA Office and Warehousing - 2025:

By April 2025, we aim to enhance our global footprint with the establishment of a dedicated office and warehousing facility in the United States, thereby augmenting our international reach and service capabilities.

These strategic advancements underscore our commitment to reaching new heights, enriching our product suite, and solidifying our standing as a market leader. We eagerly anticipate the next stages of our journey together.

### **DESIGN CONCEPT**

M/S. KRN HVAC PRODUCTS PVT. LTD

At SP1-24 at industrial area Kolila joga, Neemrana, Distt Alwar Rajasthan







# **Roll Bond Evaporators (1/5)**



Roll Bond Evaporator With Suction Line



Roll Bond Evaporator With C-Bend



ROLL BOND EVAPORATOR FOR WATER DISPANSER APPLICATIONS



Roll Bond Evaporator With Back Cover



Roll Bond Evaporator With Inlet and Outlet



Roll Bond Evaporator With Freezer Frame Cover





# **Frost Free Evaporators(2/5)**



Continuous Fin Type FF Evaporator



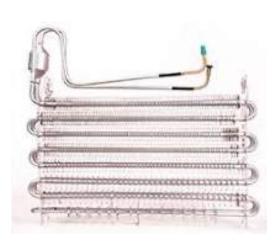
Continuous Fin Type with Heater And Accumulator FF Evaporator



Continuous Fin Type with Heater FF Evaporator



Discontinuous Fin Type with Heater And Accumulator FF Evaporator



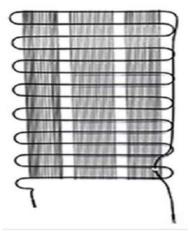
Discontinuous Fin Type FF Evaporator



Continuous Fin Type with Heater And Accumulator FF Evaporator



### Wire On Tube Condenser (3/5)



Wire on Tube Condenser



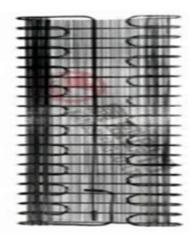
Wire on Tube Spiral Condenser for Chocolate Cooler



Wire on Tube Condenser with Mounting Clamp



Wire on Tube Spiral Condenser for Deep Freezer



Wire on Tube Condenser with C-bending



Wire on Tube Spiral Condenser for Commercial Freezer

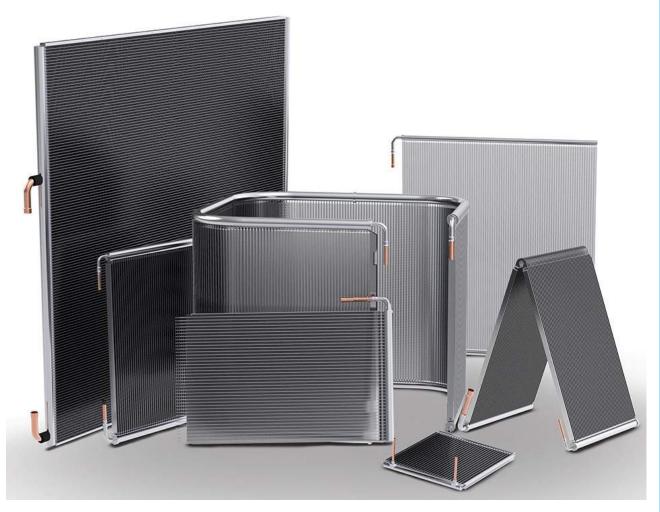


# MCHX Heat Exchanger (4/5)

### **Microchannel Coils**

- 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 airside pressure drop, and lightweight design. These attributes have made them increasingly popular in various HVAC-R applications.





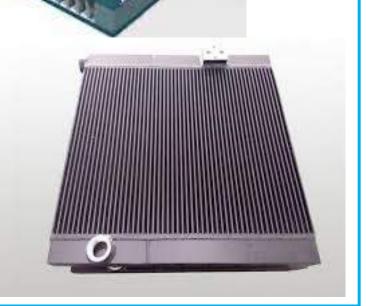
### **Bar & Plate Heat Exchanger (5/5)**

### BAR AND PLATE COOLER

- 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







# **Upcoming Product Range**

Product Range								
Tube OD	5 mm	5 mm	6.35 mm	6.35 mm	7.94 mm	7.94 mm	9.52 mm	
Tube Pitch	25 mm	20 mm	25.4 mm	19.05 mm	25.4 mm	25 mm	25.4 mm	
Row Pitch	21.65 mm	17.32 mm	22 mm	16.5 mm	15.88 mm	21.65 mm	15.88 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	
FPI	7 ~ 22	7 ~ 22	6 ~ 22	6 ~ 22	5 ~ 22	5~22	4 ~ 22	
Expansion Length (mm)	150 ~ 7000	150 ~ 7000	150 ~ 7000	150 ~ 7000	150 ~ 12000	150 ~ 12000	150 ~ 12000	
Fin Type	Plain, Louver, V- Waffle	Plain, Louver, V- Waffle	Plain, Louver, V- Waffle	Plain, Louver, V- Waffle	Plain, Louver, V- Waffle	Plain, Louver, Sine Wave	Plain, Louver, V- Waffle	
Sheet Metal	GI, AI, Cu, Brass and SS							
Fin Material	Al and Copper							
Anticorrosion Coating	Coating Types : Powder, Heresite, Nano, CED, Tin or as per customer requirement							

### **Plant Capacity**



