TECH FLUX

Promise of your
best heat exchange

HEAT
EXCHANGE EXPERT



TECHFLUX ENGINEERING SOLUTIONS

www.techfluxengineering.com

DIRECTOR'S **MESSAGE**

At Techflux Engineering Solutions, our journey is driven by a commitment to delivering reliable, customized, and high-quality heat exchange solutions.

With a strong focus on engineering, precision, and quality, we strive to meet the unique requirements of every customer through innovative and cost-effective solutions.

Our growth is built on customer trust, continuous improvement, and the dedication of our team. We remain committed to strengthening our capabilities and delivering dependable solutions that create lasting value.

We look forward to building stronger partnerships and engineering a better future together.



MR. VIKRAM VASEKAR
Director



MRS. PRIYA PHULE
Full Time Director

Techflux Eng. Solution



ABOUT OUR COMPANY

Techflux Engineering Solutions is a leading manufacturer of customized heat exchangers and industrial cooling equipment, committed to precision engineering, superior quality, innovative design, and dependable performance for every application.







Vision:

Building lasting customer relationships through innovative engineering and continuous improvement.

Mission:

To deliver world-class refrigeration and HVAC solutions with a commitment to customer satisfaction and sustainable growth.

9028329746 www.techfluxengineering.com sales@techfluxeng.com

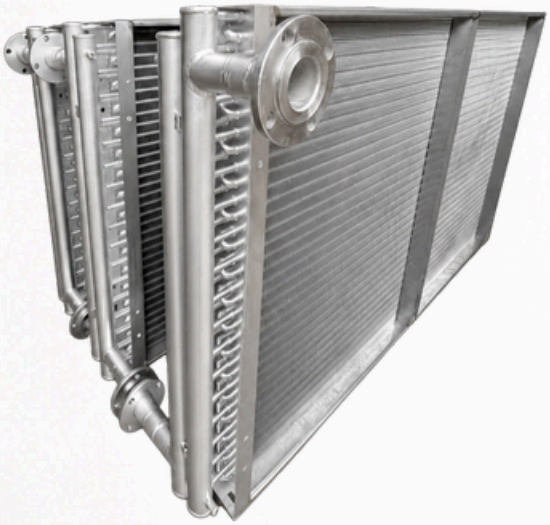
CHILLED WATER COIL

KEY FEATURES

- High heat transfer efficiency
- Copper tubes with Aluminium fins
- Galvanized or stainless steel casing
- Custom-built design

Tube Material:	Copper / SS304 / SS316
Fin Material:	Aluminium / Blue Fin / Copper / SS
Tube Sizes:	1/2", 3/8", 5/8", 7mm
Fin Pitch:	4 - 15
Rows:	1-24
Leak Test:	300 - 450 PSI (Nitrogen)





MATERIAL AND COATING OPTIONS

Tube Material:	Copper / SS304 / SS316
Fin Material:	Aluminium/ Blue Fin / Copper / SS
Headers:	Copper, SS304, MS
Casing:	GI, SS304, Aluminium
Coating:	Nano / Epoxy / Hydrophilic / Powder / Anti-Corrosive



APPLICATIONS

- AHU / FCU
- Commercial HVAC
- Pharmaceutical
- Food Processing
- Hospitals
- Data Centers
- Clean Rooms
- Industrial Plants

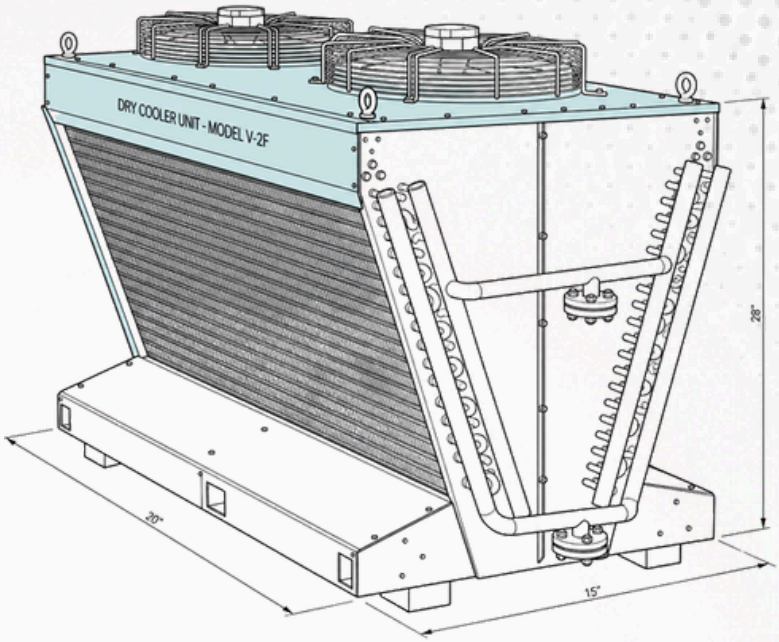
CUSTOM SOLUTIONS.
LASTING PERFORMANCE.

TECH FLUX
PROMISE OF YOUR BEST HEAT EXCHANGE



AIR COOLED CONDENSERS

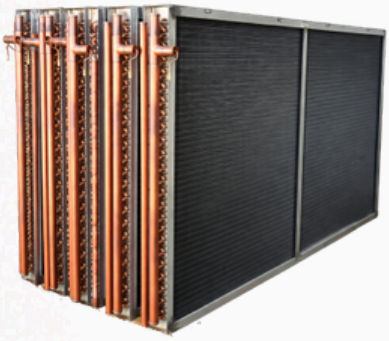
High Efficiency. Reliable Performance.

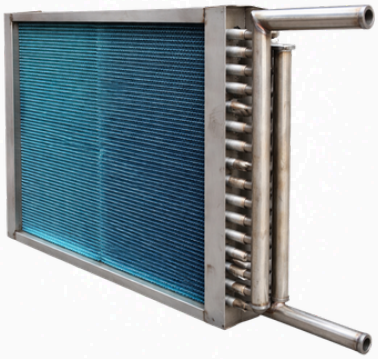


KEY FEATURES

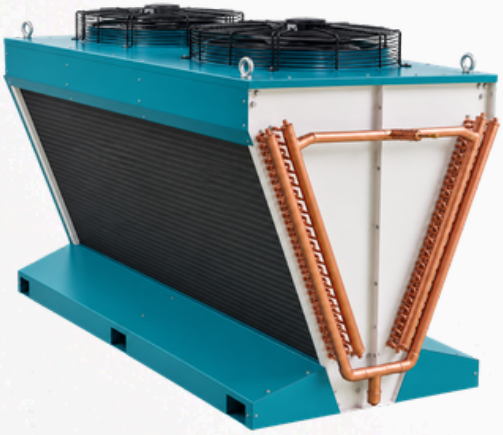
- High Heat Rejection
- Low Pressure Drop
- Long Service Life
- Custom-Built as per Requirement

OUR VARIANTS









QUICK SPECIFICATION

- Tube Sizes: 1/2", 3/8", 5/8", 7mm
- Tube Material: Copper/ SS304/ SS316
- Fin Material: Aluminium/ Blue fin/ Copper
- Fin Pitch: 4 - 15 FPI
- Headers: Copper, SS304, MS
- Casing: GI, SS304, Aluminium
- Rows: 1-24
- Leak Test: 300 - 450 PSI (Nitrogen)

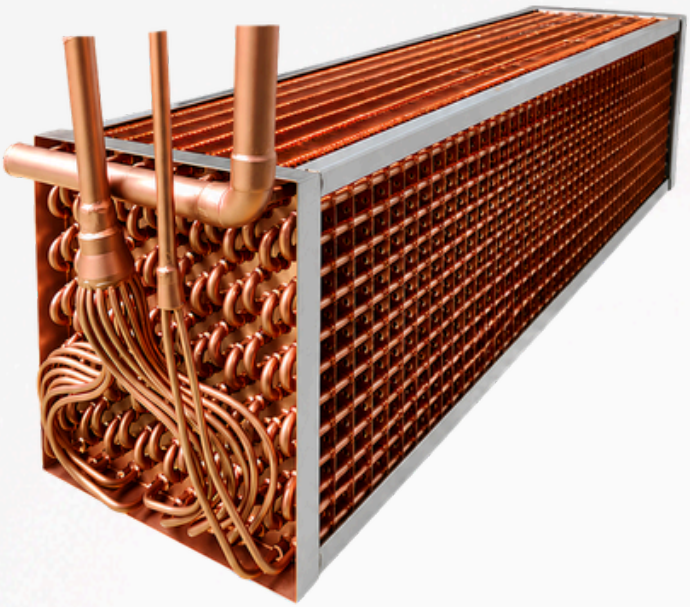
APPLICATIONS

HVAC | Cold Storage | Refrigeration | Dairy | Food Processing | Pharmaceutical | Process Cooling | Commercial Buildings

CUSTOM SOLUTIONS.
LASTING PERFORMANCE.

TECH FLUX
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EVAPORATOR COIL

High Efficiency. Reliable Performance.

TECHNICAL SPECIFICATION

- Tube Sizes: 1/2", 3/8", 5/8", 7mm
- Tube Material: Copper/ SS304/ SS316
- Fin Material: Aluminium/ Blue fin/ Copper
- Fin Pitch: 4 - 15 FPI
- Headers: Copper, SS304, MS
- Casing: GI, SS304, Aluminium
- Rows: 1-24
- Leak Test: 300 - 450 PSI (Nitrogen)

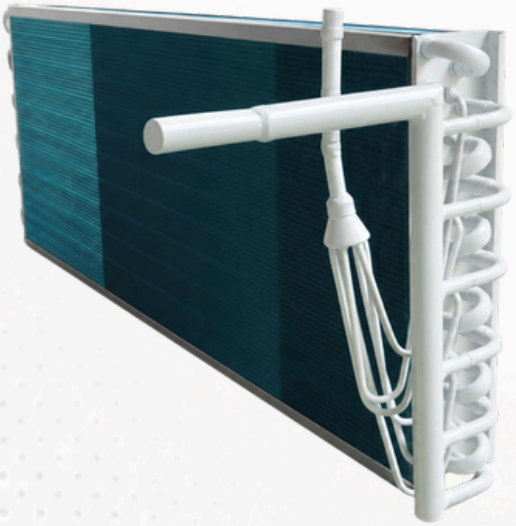
KEY FEATURES

High Cooling Efficiency
Optimized heat transfer for superior performance

Leak Tested
Leak Tested with Nitrogen at 400–450 PSI

Copper Tube Construction
High durability & corrosion resistance

Low Noise Operation
Smooth & quiet performance for all environments



APPLICATIONS

- Cold Storage
- Dairy
- Food Processing
- Pharmaceutical
- Air Handling Units
- Dehumidifier
- Low Temp Rooms
- Process Cooling

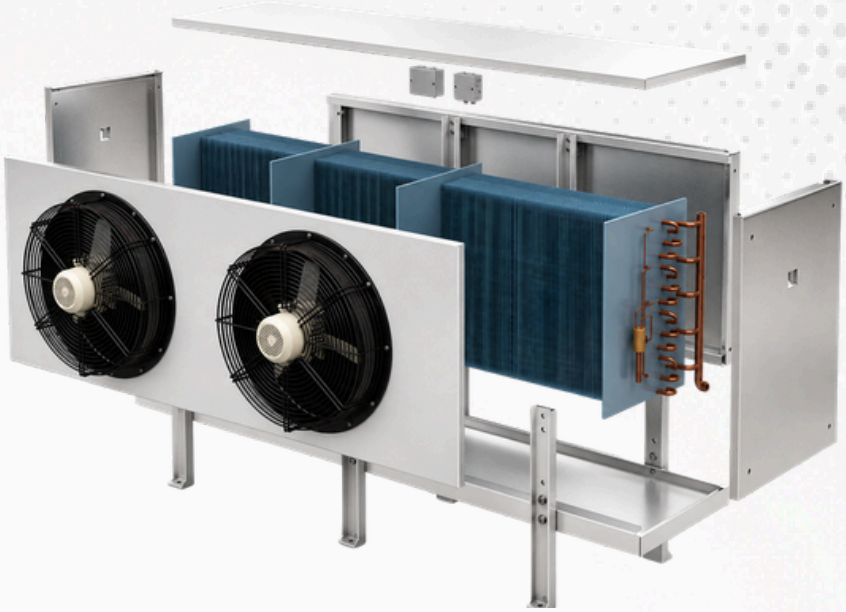
CUSTOM SOLUTIONS.
LASTING PERFORMANCE.

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INDOOR UNITS

High Efficiency. Reliable Performance.



KEY FEATURES

- High Cooling Capacity
- Energy Efficient
- Corrosion-Resistant
- Low Maintenance
- Silent Operation(Low Noice)

OUR VARIANTS







TECHNICAL SPECIFICATION

- Tube Sizes: 1/2", 3/8", 5/8", 7mm
- Tube Material: Copper/ SS304/ SS316
- Fin Material: Aluminium/ Blue fin/ Copper
- Fin Pitch: 4 - 15 FPI
- Headers: Copper, SS304, MS
- Casing: GI, SS304, Aluminium
- Rows: 1-24
- Leak Test: 300 - 450 PSI (Nitrogen)

APPLICATIONS

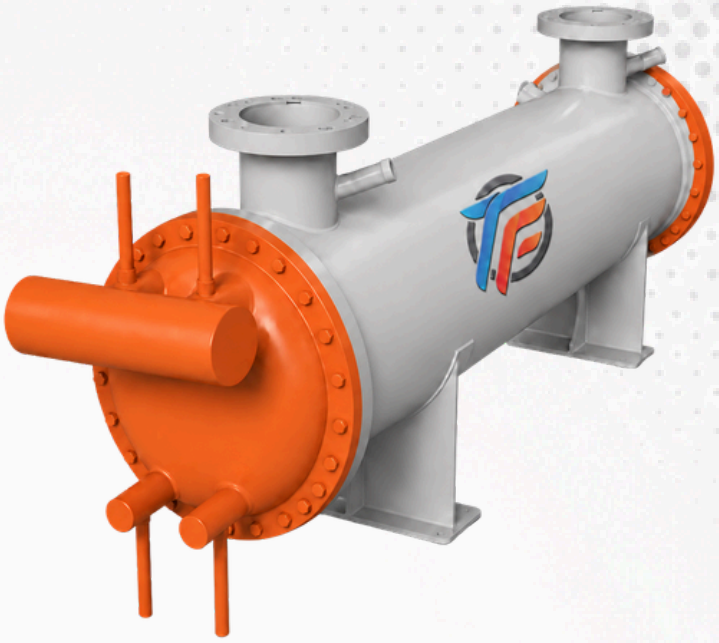
Cold Rooms / Cold Storage | Food Processing Industries | Ice Cream Industry | Dairy Farms | Milk Industry | Dairy Product Storage | Storage & Distribution Areas

CUSTOM SOLUTIONS.
LASTING PERFORMANCE.

TECH FLUX
PROMISE OF YOUR BEST HEAT EXCHANGE



SHELL & TUBE HEAT EXCHANGERS



HIGH EFFICIENCY | DURABLE CONSTRUCTION | CORROSION RESISTANT | LOW MAINTENANCE

KEY FEATURES

- High Heat Transfer Efficiency
- Compact & Robust Design
- Wide Range of Materials
- Easy Installation & Maintenance
- 100% Pressure Tested



TYPICAL CONFIGURATIONS



1-2 Pass | 1-4 Pass | 2-4 Pass

TECHNICAL SPECIFICATION

Tube Material
Copper / SS304 / SS316

Tube OD
9.52 mm (3/8") to 25.4 mm (1")

Shell Material
Carbon Steel / SS304 / SS316

Design Pressure
Up to 25 kg/cm² (Higher on request)

Design Temperature
Up to 200 °C (Higher on request)

Tube Layout
Triangular / Square

Applications
Food Processing, Dairy, Milk, Pharmaceutical, Chemical

APPLICATIONS

Food Processing | Ice-Cream Industry | Milk Processing | Dairy Industry | Beverage Industry | Chemical Industry | HVAC Systems | Industrial Applications

CUSTOM ENGINEERED
Designed as per your requirements

HIGH EFFICIENCY
Maximum heat transfer with optimized design

PREMIUM MATERIALS
High quality tubes, fins & components

RIGOROUS TESTING
Every unit tested for leak & performance

FAST DELIVERY
On-time dispatch with reliable support

CUSTOM SOLUTIONS. LASTING PERFORMANCE.

TECH FLUX
PROMISE OF YOUR BEST HEAT EXCHANGE



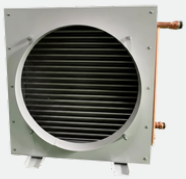
HEAT EXCHANGER

Built For Efficiency.
Engineered To Last.



- HIGH EFFICIENCY
- ROBUST CONSTRUCTION
- CUSTOM ENGINEERED
- TESTED FOR RELIABILITY

OUR VARIANTS



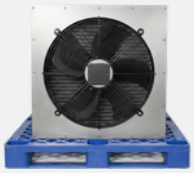
Crypto Mining Heat Exchanger

High-Performance Air & Gas Cooling Application



Finned Tube Heat Exchanger

High-Performance Air & Gas Cooling Application



SS Heat Exchanger

Corrosion-Resistant Solution for Demanding Environments



Oil Cooler Heat Exchanger

Efficient Cooling for Hydraulic & Lubrication Systems

TECHNICAL SPECIFICATION

Tube Material
Copper / Stainless Steel / Carbon Steel

Fin Material
Aluminium/ Stainless Steel

Tube Sizes
7 mm, 3/8", 1/2", 5/8" & more

Fin Pitch
4 – 15 FPI

Applications
Air / Liquid / Oil / Gas

Custom Design
As per your requirement

APPLICATIONS

- Industrial Processes
- HVAC & Refrigeration
- Oil & Gas
- Marine
- Chemical
- Power Generation
- Hydraulic Systems
- Charging Infrastructure

CUSTOM ENGINEERED
Designed as per your requirements

HIGH EFFICIENCY
Maximum heat transfer with optimized design

PREMIUM MATERIALS
High quality tubes, fins & components

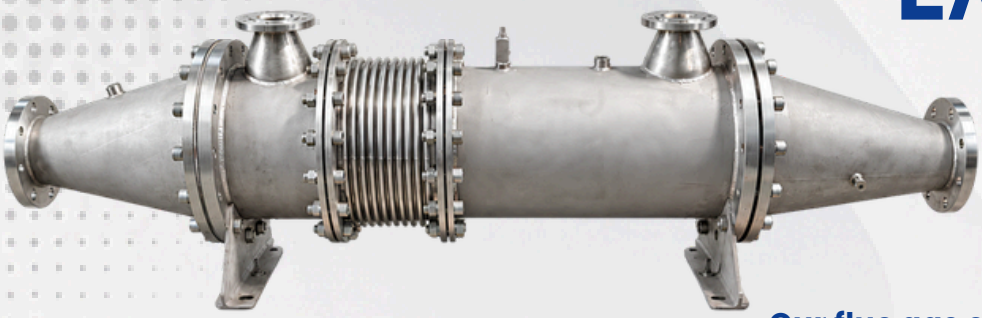
RIGOROUS TESTING
Every unit tested for leak & performance

FAST DELIVERY
On-time dispatch with reliable support

CUSTOM SOLUTIONS. LASTING PERFORMANCE.

TECH FLUX
PROMISE OF YOUR BEST HEAT EXCHANGE





EXHAUST GAS COOLER

Recover heat.
Reduce emissions.

Our flue gas coolers are designed to extract valuable heat from high-temperature flue gases and transfer it to the water circuit, improving energy efficiency and supporting a cleaner, more sustainable operation.

HIGHER EFFICIENCY CLEANER TOMORROW

- CO_2 Lower Emissions
- Energy Recovery
- Sustainable Operation

KEY FEATURES

- Recovers waste heat from flue gases
- Compact & robust design
- Reduces flue gas temperature & emissions
- Easy installation & low maintenance
- Improves overall energy efficiency

TECHNICAL SPECIFICATION

Tube Material
Copper / SS304 / SS316

Tube OD
9.52 mm (3/8") to 25.4 mm (1")

Shell Material
Carbon Steel / SS304 / SS316

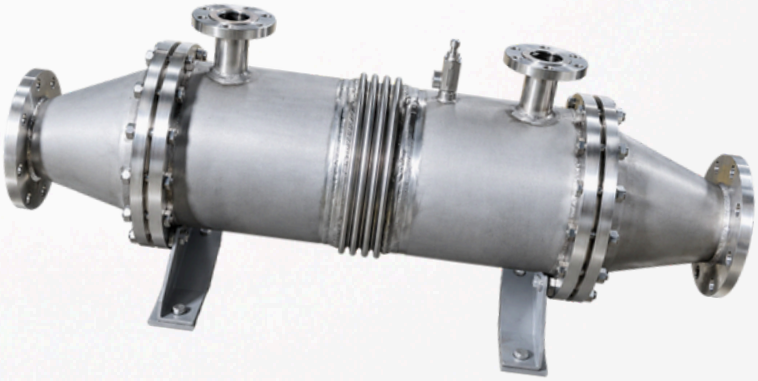
Design Temperature
Gas side-Up to 700 °C
Water side- Up to 110 °C

Tube Layout
Triangular / Square

Customization
Available as per application requirements.

APPLICATIONS

- Power Generation
- Industrial Process Heating
- Cement Plants
- Boilers
- Chemical Industry
- Industrial Applications

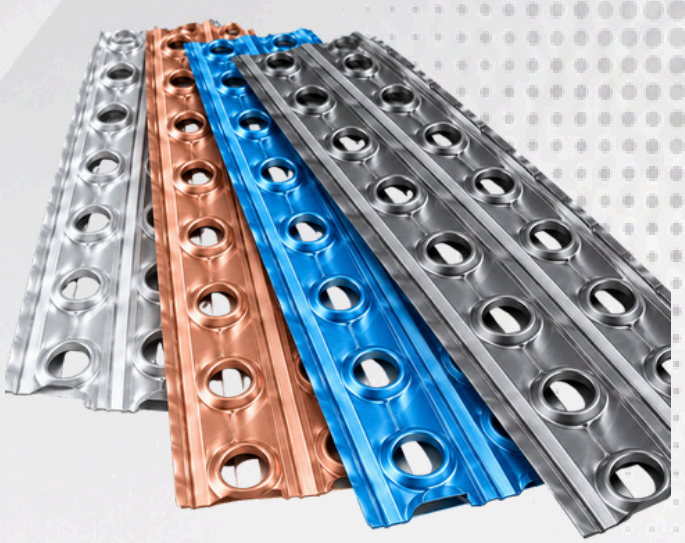


CUSTOM SOLUTIONS. LASTING PERFORMANCE.

TECH FLUX
PROMISE OF YOUR BEST HEAT EXCHANGE



FIN PITCH & CONFIGURATION



Precision Tubes for Superior Heat Exchange Performance

We offer a wide range of tube outer diameters (OD), tube pitches and tube thickness options to meet various application and performance requirements.

PRODUCT RANGE

Specification	7 mm	3/8"	1/2"	5/8"
Tube OD (mm / inch)	7 mm	3/8"	1/2"	5/8"
Nominal Pitch	—	1″	1.25″	1.5″
Running Pitch (RP)	21 mm	25.4 mm	31.75 / 38.1 mm	38.1 mm
Lateral Pitch	12.5 / 12.7 mm	15.88 / 18.5 / 19 / 22 mm	22 / 27 / 33 mm	33 mm
Tube Thickness (mm)	0.25 (IGT) / 0.28 (IGT)	0.27 (IGT) / 0.28 / 0.28 (IGT) / 0.3 / 0.41 / 0.41 (IGT) / 0.5	0.32 / 0.36 / 0.41 / 0.5	0.41 / 0.5 / 0.6
Fin Type	Plain, Louver, V-Waffle			
Casing / Sheet Metal	GI, AL and SS			
Fin Material	Aluminium / Blue Fin / Copper / SS			
Anti-Corrosion Coating	Silver (Anti-Corrosive) / Heresite (Brown) / Powder Coating / Nanova Coating			

WIDE RANGE OF SIZES
Multiple OD & pitch options for every need.

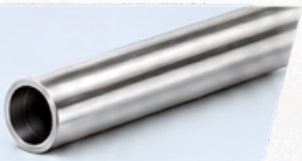
HIGH QUALITY MATERIALS
Copper, SS, Aluminium & more.

CUSTOMIZED SOLUTIONS
Designed to meet your specific requirements.

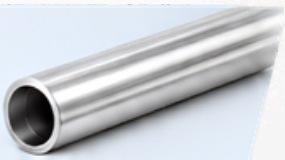
DURABLE & RELIABLE
For long-lasting performance.



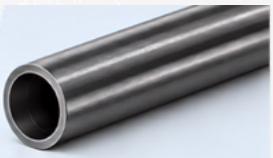
COPPER TUBE
Excellent thermal conductivity and durability.



STAINLESS STEEL (SS 304)
Strong, durable & corrosion resistant.



STAINLESS STEEL (SS 316)
Lightweight and high performance.



CARBON STEEL TUBE
Enhanced corrosion resistance for harsh environments.

CUSTOM SOLUTIONS.
LASTING PERFORMANCE.

TECH FLUX
PROMISE OF YOUR BEST HEAT EXCHANGE

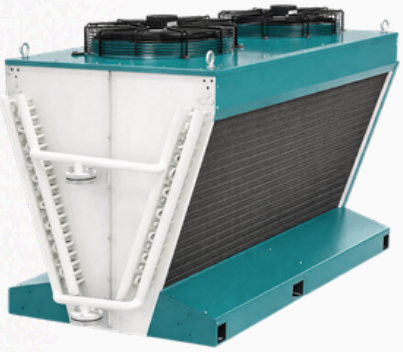


COATING TYPES

PERFORMANCE. PROTECTION. POSSIBILITIES.

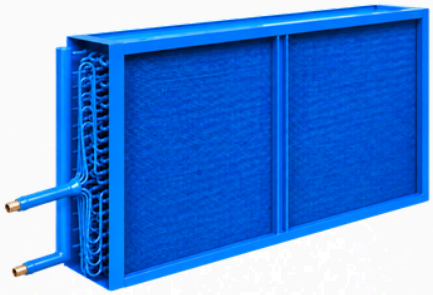


OUR COATING TYPES



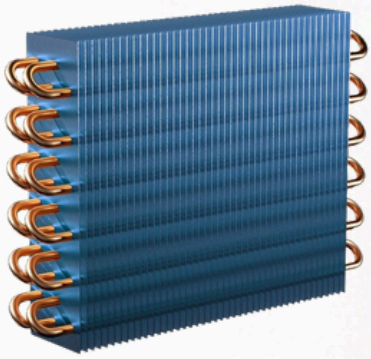
CUSTOMISATION

Customized coating solution for specific application requirements.



NANOVA COATING

Ultra-thin protective layer that enhances efficiency and prevents corrosion.



PRE-COATED BLUE

Factory-applied blue fin coating ensures long durability and consistent performance.



HERESITE COATING

Tough, chemical resistant coating designed for harsh industrial conditions.



ANTI CORROSIVE COATING

Superior corrosion protection for long-lasting performance.



POWDER COATING

Durable powder finish for superior protection and long-lasting performance.

CUSTOM SOLUTIONS.
LASTING PERFORMANCE.

TECH FLUX
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QUALITY. RELIABILITY. PERFORMANCE.



CERTIFICATIONS

ISO 9001:2015
Quality Management System

TESTED & VERIFIED
Leak Tested up to 45 Bar(Nitrogen)

MATERIAL CERTIFICATION
On request

TESTING CAPABILITIES

- Nitrogen Leak Test(up to 450 PSI)
- Hydrostatic Pressure Test
- Dimensional Accuracy Check
- Performance & Thermal Testing
- 100% Inspection Before Dispatch

QUALITY ASSURANCE PROCESS

01 REQUIREMENT ANALYSIS
Understanding application and performance needs

02 ENGINEERING & DESIGN
Advanced design for maximum efficiency

03 RAW MATERIAL INSPECTION
All materials verified for quality

04 PRECISE MANUFACTURING
Skilled workmanship with advanced machines

05 RIGOROUS TESTING
Multiple tests for leak and performance

06 SAFE PACKAGING & DISPATCH
Secure packing for damage-free delivery

WHY CHOOSE TECHFLUX?

- Custom engineered solutions for every application.
- Premium quality materials and robust construction
- Advanced manufacturing & testing infrastructure
- On-Time delivery with strong commitment
- Experienced team with technical expertise

10+ YEARS OF EXPERIENCE

500+ CUSTOMIZED COIL DELIVERED

20+ INDUSTRIES SERVED

ON-TIME DELIVERY EVERY TIME

CUSTOM SOLUTIONS. LASTING PERFORMANCE.

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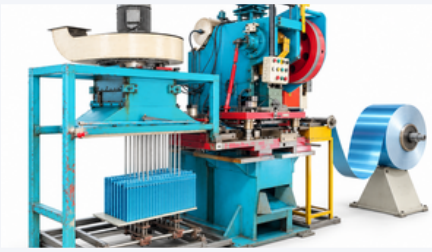
ENGINEERED FOR EXCELLENCE

From advanced technology to skilled manpower, we have the infrastructure and capabilities to deliver customized heat exchange solutions with consistency, precision and on-time delivery.

OUR MANUFACTURING STRENTH

- MODERN INFRASTRUCTURE
- QUALITY FOCUSED
- ON-TIME DELIVERY
- CUSTOM ENGINEERING
- SKILLED WORKFORCE

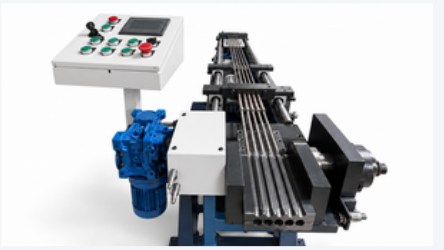
ADVANCE MACHINERY



Fin Press Machine
(1/2" , 3/8", 5/8", 7mm)



Hydraulic Press Brake Machine



Tube Hairpin Bending Machine



Hydraulic Shearing Machine



Tube Cutting Machine



Tube Expansion Machine

TRUSTED BY IDUSTRIES:

- HVAC & Refrigeration
- Cold Storage
- Food & Dairy Industries
- Pharma & Cleanrooms
- Data Centers
- Industrial Process Cooling
- Marine & Offshore
- NH^3 Ammonia Refrigeration

TRUSTED BY INDUSTRY LEADERS

Building lasting partnerships through reliable engineering and cooling solutions.



OUR ESTEEMED CLIENTS

BOSCH

SERUM INSTITUTE OF INDIA
Cyrus Poonawalla Group

kirloskar

THERMAX

MORDE
Cocoa & Chocolate

HICOOL
Air Moving Products

mobility

KASCO

National
INDUSTRIAL COOLING SYSTEM

BRAC

BARRY CALLEBAUT
INDONESIA

BARRY CALLEBAUT
INDIA

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TECH FLUX

Promise of your
best heat exchange

LET'S BUILD TOGETHER

Custom Heat Transfer Solutions



TECH FLUX
PROMISE OF YOUR BEST HEAT EXCHANGE

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SCAN ME

MAKE IN INDIA

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