



XINXIANG KERUI
ELECTRONICS CO., LTD

新乡市科瑞电子有限公司

Evaporator/Condenser/Heat Exchanger/Refrigeration Accessories

蒸发器/冷凝器/换热器/制冷配件

跨越

STRIDE ACROSS

突破自我 跨越新生
Breakthrough self, leap over new life

勇于创新 不断进取
Have the courage to innovate and keep forging ahead



科瑞电子
Kerui Electronics

CONTENTS

目录

◆公司简介	
COMPANY INTRODUCTION-----	01-02
◆产品简介	
PRODUCT INTRODUCTION-----	03-15
◆铜管铝翅片换热器系列	
Copper Tube Aluminum Fin Heat Exchanger Series-----	03
◆全铝翅片换热器系列	
Full aluminum fin heat exchanger series-----	08
◆丝管式蒸发器冷凝器系列	
Wire on tube evaporator condenser series-----	10
◆微通道冷凝器	
Micro channel condenser-----	12
◆吹胀式蒸发器	
Roll-bond evaporator-----	13
◆粘结式蒸发器	
Tube on plate evaporator-----	14
◆制冷配件	
Refrigeration accessories-----	15
◆质量管理体系认证证书	
QUALITY MANAGEMENT SYSTEM CERTIFICATE-----	16

产品服务客户，质量塑造品牌

Products serve customers, quality builds brand



公司简介

COMPANY INTRODUCTION

新乡市科瑞电子有限公司是以生产冰箱、冰柜蒸发器，冷凝器为主的专业企业。公司目前主要产品有铝管管式蒸发器、铜管式蒸发器，蒸发器、冷凝器、冰柜配件以及铜铝管接头及空调器连接管件、过滤器等产品，生产设备好、技术力量雄厚，拥有经验丰富的工程技术人员、完善的产品检测设施，严格的质量保证体系。

我公司具备自主研发、开发能力，并能以高效、专业技术和良好的服务根据用户的要求开发、试制和批量生产新产品；拥有国内同类企业质量好的生产设备。

我公司始终以“高效管理、好产品、优质服务、好信誉”诚信面向社会，努力倡导前沿的管理理念，和谐的企业氛围，全力打造“科瑞”品牌，创建高起点、高水准现代化企业，为加快区域经济发展做出积极的贡献。

我们竭诚欢迎国内外各界人士光临，发展业务关系，探讨合作途径，谋求共同发展！



Xinxiang Kerui Electronics Co., Ltd. is a professional enterprise specializing in the production of evaporator and condenser for refrigerator& freezer .The main products of our company are aluminum tube fin evaporator, copper tube fin evaporator, other evaporator& condenser, freezer fittings , copper-aluminum pipe joints and air conditioner connecting pipe fittings, filters and related products.We own good production equipment, strong technical force, experienced engineering and technical personnel, complete testing facilities, strict product quality guarantee system.

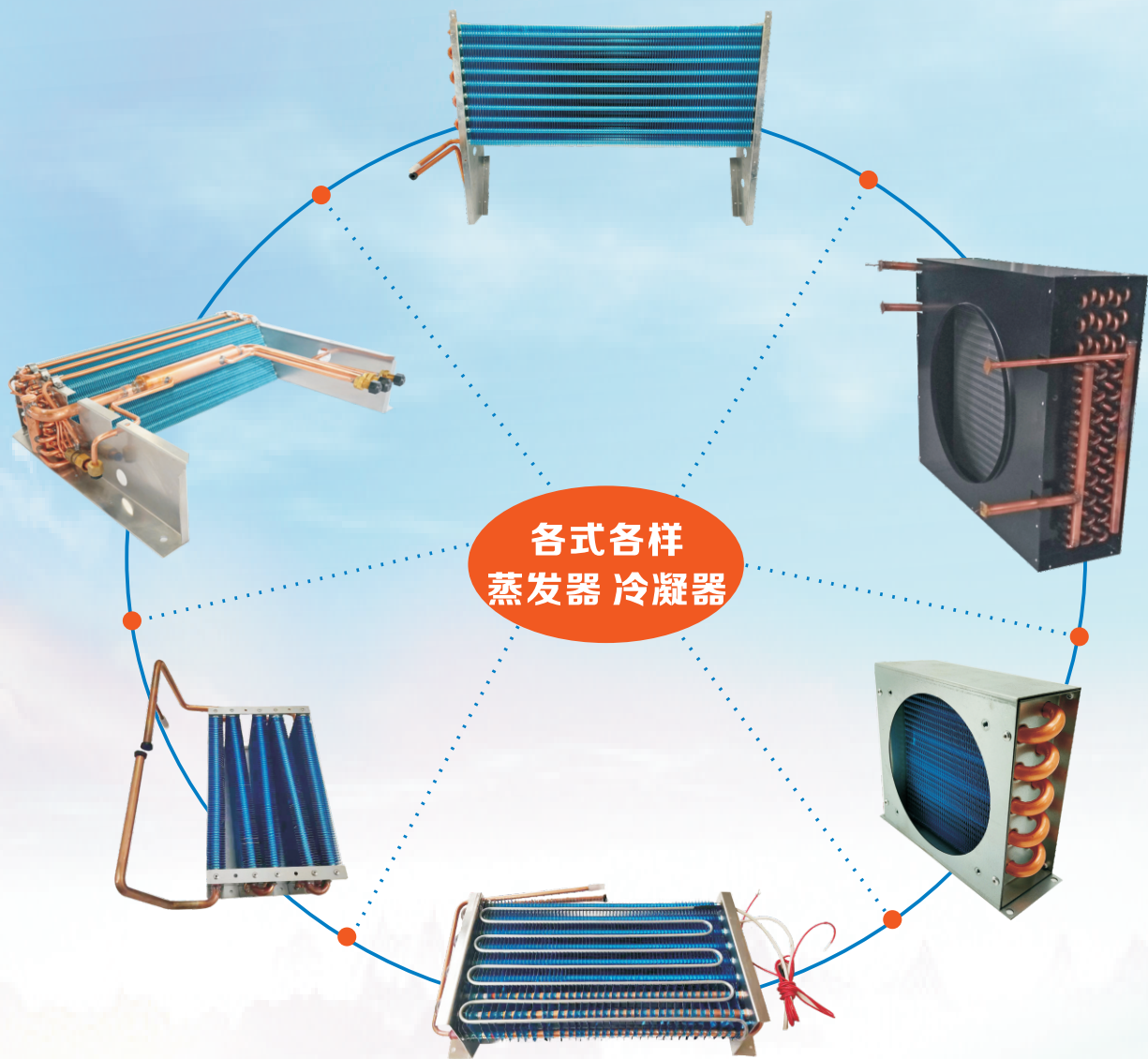
Our company has independent research and development ability, and can develop, trial-produce and mass produce new products according to the requirements of users with high efficiency, professional technology and good service. Our company has advantage in facilities compared with same industry.The company has always been "efficient management, good quality service, good reputation" integrity for the society, and strive to create cutting-edge management concept, harmonious enterprise atmosphere, to create "Kerui" brand, to create a high starting point, high standard of modern enterprise, to accelerate the regional economic development to make a positive contribution.

We sincerely welcome people from all fields & develop business relationships, explore ways of cooperation, and seek common development!

产品简介

PRODUCT INTRODUCTION

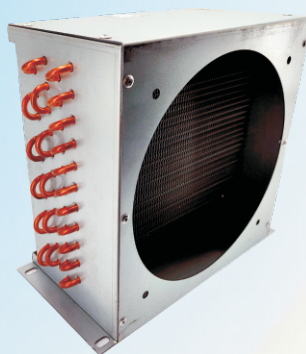
铜管铝翅片换热器系列 Copper Tube Aluminum Fin Heat Exchanger Series



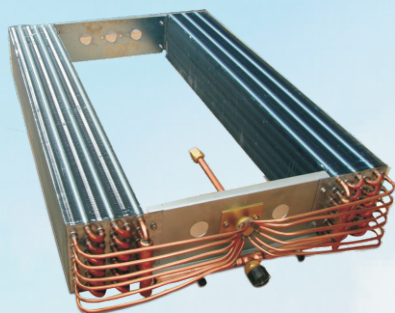
全铜系列换热器
Full copper series heat exchanger



带风罩换热器
Heat exchanger with fan cover



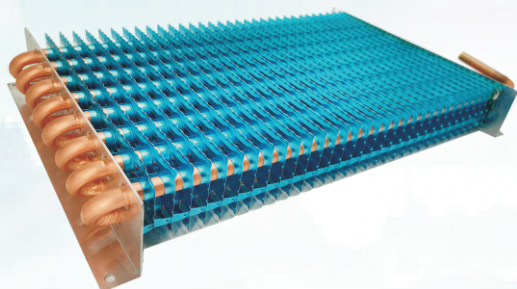
车用空调蒸发器
Vehicle air conditioner evaporator



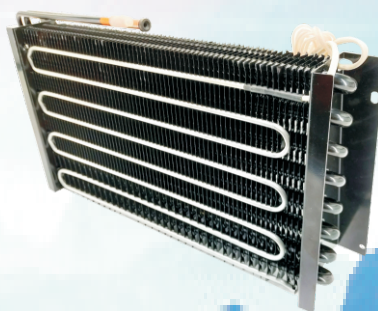
电泳系列换热器
Stainless steel series heat exchanger



大间距带肋片蒸发器
Evaporator with wide fin pitch



自动化霜系列蒸发器
Automatic defrost evaporator



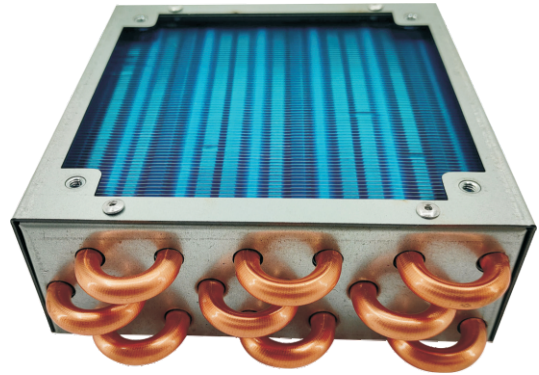
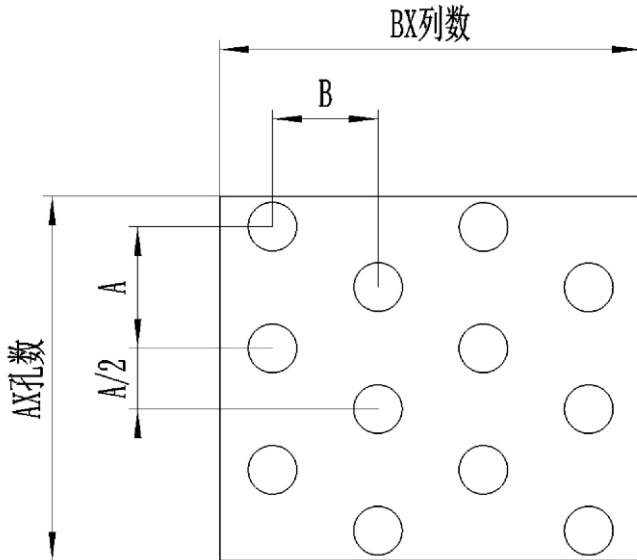
产品简介

PRODUCT INTRODUCTION

换热器参数表

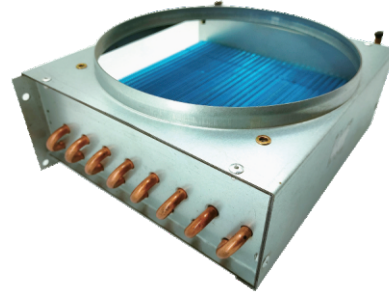
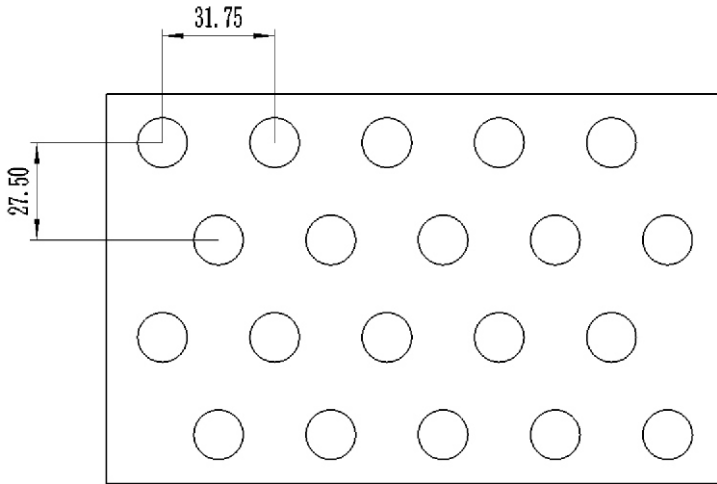
Parameter List of copper & aluminum Heat Exchanger

规格 Specification	管距A Tube PitchA	列距B Row Pitch B	管径 Tube Size	管材 Tube Material	翅片间距 Fin Pitch	翅片片形 Fin Type	翅片材质 Fin Material
21 × 18.2 × Φ5.0mm	21mm	18.2mm	Φ5.0mm	Copper Tube(铜管 光管或内螺纹管) Smooth Tube or Rifled Tube	2.5-3.5mm 可调 adjustable	波纹片 Corrugated Fin	铝箔(光箔或亲水箔) Aluminum Fin (Hydrophobic fins or hydrophilic fin)
25 × 21.65 × Φ6.35mm	25mm	21.65mm	Φ6.35mm		2.0-4.2mm 可调 adjustable	波纹片 Corrugated Fin	
21 × 18.2 × Φ7.0mm	21mm	18.2mm	Φ7.0mm		2.0-4.5mm 可调 adjustable	波纹片 Corrugated Fin	
21 × 12.7 × Φ7.0mm	21mm	12.7mm	Φ7.0mm		1.2-1.8mm 可调 adjustable	百叶窗式片 Louvered Fin	
25 × 12.5 × Φ7.0mm	25mm	12.5mm	Φ7.0mm		1.5-3.2mm 可调 adjustable	波纹片 Corrugated Fin	
25 × 21.65 × Φ7.94mm	25mm	21.65mm	Φ7.94mm		2.0-4.5mm 可调 adjustable	波纹片或平片 Corrugated Fin or Flat Fin	
25 × 15.88 × Φ9.52mm	25mm	15.88mm	Φ7.94mm		1.5-3.5mm 可调 adjustable	波纹片或平片 Corrugated Fin or Flat Fin	
25 × 21.65 × Φ9.52mm	25mm	21.65mm	Φ9.52mm		1.5-6.0mm 可调 adjustable	波纹片或平片 Corrugated Fin or Flat Fin	
35 × 35 × Φ9.52mm	35mm	35mm	Φ9.52mm		1.5-6.0mm 可调 adjustable	波纹片或平片 Corrugated Fin or Flat Fin	



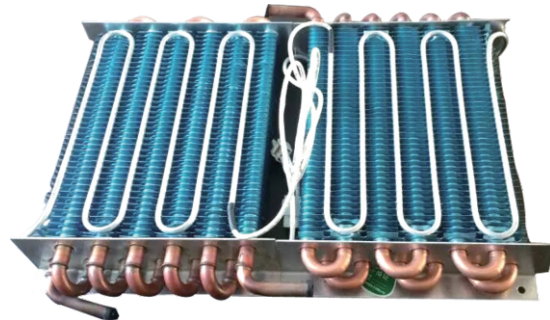
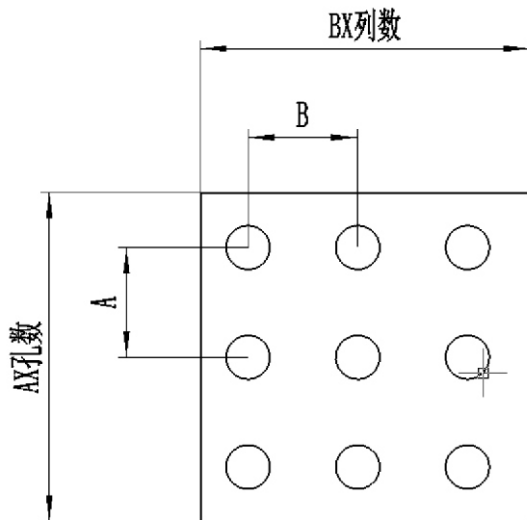
- 可选择防护涂层, 也可根据客户盐雾试验要求设计。
- 任何特殊的功能或需求, 我们将为您提供最优的解决方案。

- Can be selected, or design according to Customer's salt spray test requirement.
- Our technical department will offer professional suggestions for any special functions or demands to meet all requirements of customers.



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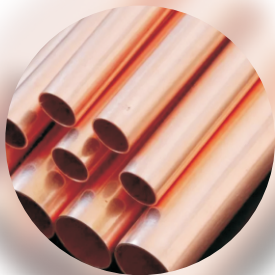
规格 Specification	管距 Tube Pitch	列距 Row Pitch	管径 Tube Size	管材 Tube Material	翅片间距 Fin Pitch	翅片片形 Fin Type	翅片材质 Fin Material
31.75 × 27.5Φ12.7mm	31.75mm	27.5mm	Φ12.7mm	铜管(光管) Copper Tube (Smooth Tube)	5.0~9.0mm 可调 adjustable	波纹片 Corrugated Fin	铝箔(光箔或亲水箔) Aluminum Fin (Hydrophobic fins or hydrophilic fin)



规格 Specification	管距A Tube Pitch A	列距B Row Pitch B	管径 Tube Size	管材 Tube Material	翅片间距 Fin Pitch	翅片片形 Fin Type	翅片材质 Fin Material
35 × 35Φ12.7mm	35mm	35mm	Φ12.7mm	铜管 (光管或内螺纹管) Copper Tube (Smooth Tube or Rifled Tube)	4.0~5.0mm 可调 adjustable	波纹片 Corrugated Fin	铝箔 (光箔或亲水箔) Aluminum Fin (Hydrophobic fins or hydrophilic fin)
25 × 25Φ9.52mm	25mm	25mm	Φ9.52mm		4.0~5.3mm 可调 adjustable	波纹片 Corrugated Fin	

产品简介

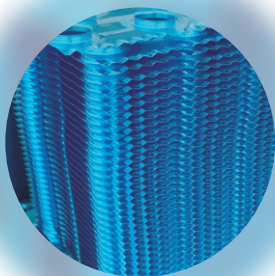
PRODUCT INTRODUCTION



纯铜管·更散热

Pure copper tube for better heat dissipation

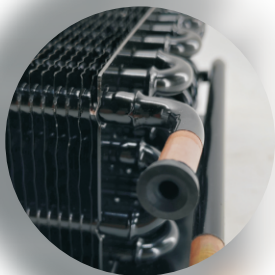
- 采用加厚纯紫铜管，减少热损耗，传热效率高，坚固耐用，使用寿命长，好产品不会偷工减料
- Adopting thickened pure copper pipes to reduce heat loss, have high heat transfer efficiency, are sturdy and durable, have along servicelife, and good products will not cut corners.



亲水铝箔翅片

Hydrophilic aluminum foil fins

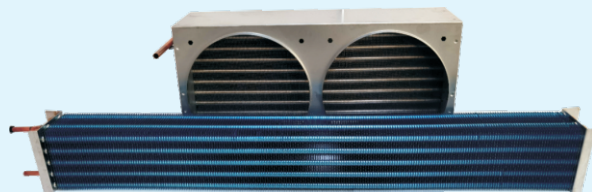
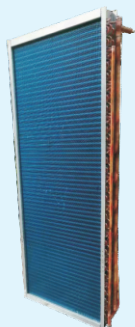
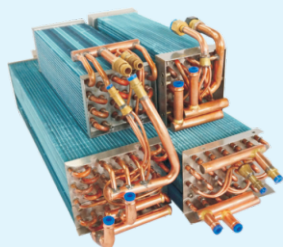
- 加密蓝色亲水铝箔翅片增大热交换面积，增加热换速度，防腐防霉、超强散热。
- Encrypt blue hydrophilic aluminum foil fins to increase heat exchange area, Increase heat transfer speed, prevent corrosion and mold, and provide super strong heat dissipation.



铜管弯头

Copper pipe elbow

- 铜管弯头传热效率更高，电泳工艺处理，耐用耐腐，使用寿命更长。
- Copper pipe bends have higher heat transfer efficiency,Electrophoresis process treatment, durable and corrosion-resistant, suitable for use Longer lifespan.



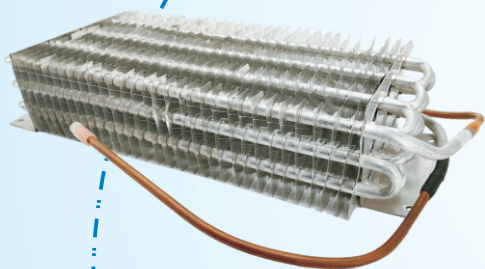
全铝翅片换热器系列

Full aluminum fin heat exchanger series

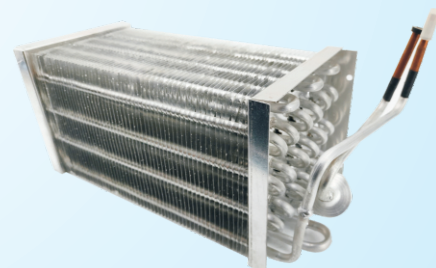
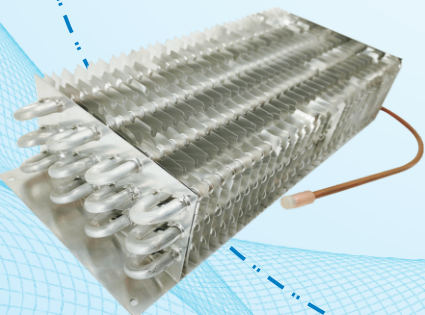


二孔直排式全铝换热器
Two-hole paralleled fin evaporator

三孔直排式全铝换热器
Three-hole paralleled fin evaporator

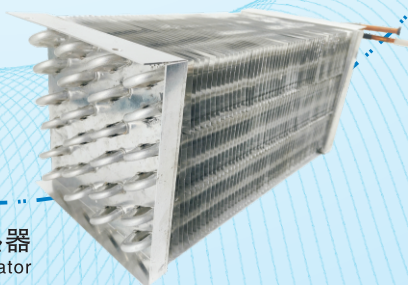


三排斜插式全铝换热器
Three row inclined fin evaporator



六排斜插全铝换热器
Six row inclined fin evaporator

四排斜插式全铝换热器
Four row inclined fin evaporator

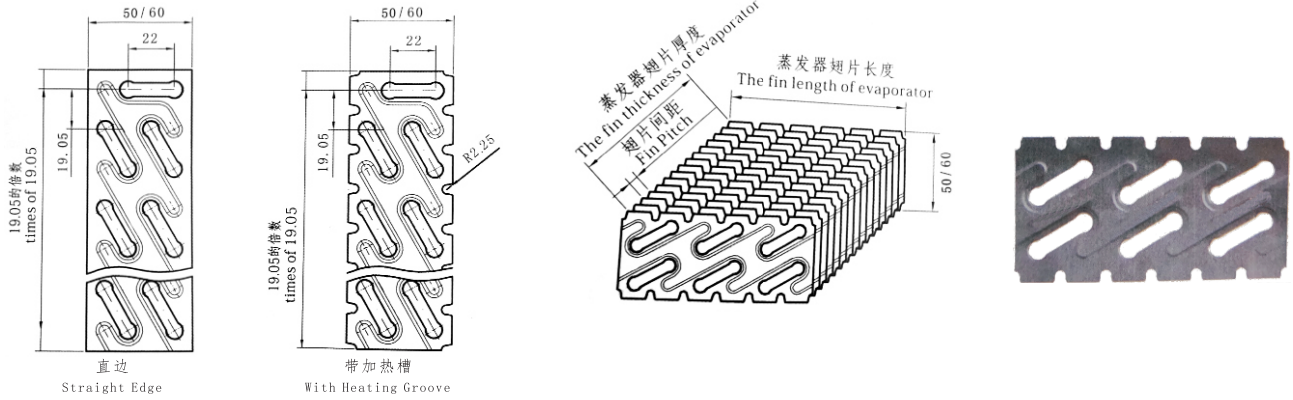


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产品简介



PRODUCT INTRODUCTION

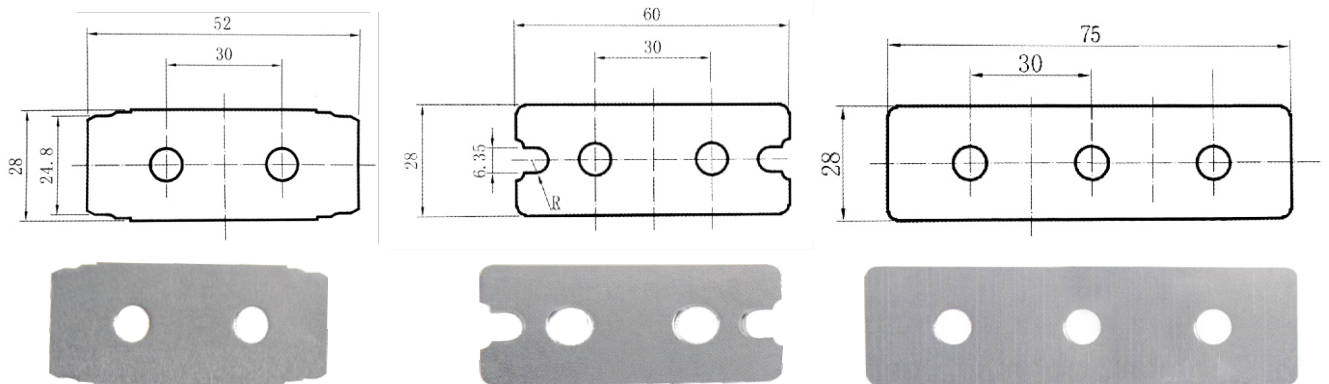


斜插式全铝翅片式换热器

Full aluminum one continues tube Heat Exchanger

规格 Specification	管距 Tube Pitch	列距 Row Pitch	管径 Tube Size	管材 Tube Material	翅片间距 Fin Pitch	翅片片形 Fin Type	翅片材质 Fin Material
22×19.5Φ7.94mm 翅片宽度50/60mm Fin width	22mm	19.05mm	Φ7.94mm	铝管 Aluminum Tube	4或5mm的倍数 Tube Times of 4 and 5	平片 Flat Fin	铝箔(光箔) Aluminum Fin (Hydrophobic fins)

- 蒸发器翅片长度600mm以内可以生产。
- 可选择防护涂层，也可根据客户盐雾试验要求设计。
- 任何特殊的功能或需求，我们将为您提供最优的解决方案。
- Evaporator length within 600mm can be produced.
- Can be selected or design according to Customer's salt spray test requirement.
- Our technical department will offer professional suggestions for any special functions or demands to meet all requirements of customers.



直排全铝翅片式换热器

Full aluminum expanding Heat Exchanger

规格 Specification	管距 Tube Pitch	管径 Tube Size	管材 Tube Material	翅片尺寸 Fin Size	翅片间距 Fin Pitch	翅片片形 Fin Type	翅片材质 Fin Material
70×28×30Φ7.94mm	30mm	Φ7.94mm	铝管 Aluminum Tube	70×28mm	4mm以上可调 Adjustable if ≥4mm	平片 Flat Fin	铝箔(光箔) Aluminum Fin (Hydrophobic fins)

- 可选择防护涂层，也可根据客户盐雾试验要求设计。
- 任何特殊的功能或需求，我们将为您提供最优的解决方案。
- Can be selected or design according to Customer's salt spray test requirement.
- Our technical department will offer professional suggestions for any special functions or demands to meet all requirements of customers.

丝管式蒸发器冷凝器系列

Wire on tube evaporator condenser series

丝管式蒸发器 Wire tube evaporator

主要原材料 Main Raw Material	结构形式 Structural Style
卷焊钢管 $\phi 8 \times 0.71$ Rolling welded steel pipe	单温控系统用蒸发器(单毛细管蒸发器) Evaporator for single temperature control system (single capillary evaporator)
散热丝:低碳钢丝 $\phi 1.4 \sim \phi 1.6$ Ma low carbon steel wire	双温控系统用蒸发器(双毛细管蒸发器) Evaporator for dual temperature control system (dual capillary evaporator)
托架:冷轧板 $t=0.6 \sim 0.9$ Bracket: cold rolled plate	三温控系统用蒸发器(三毛细管蒸发器) Evaporator for three temperature control system (three capillary evaporator)



R134a 制冷系统内管标准

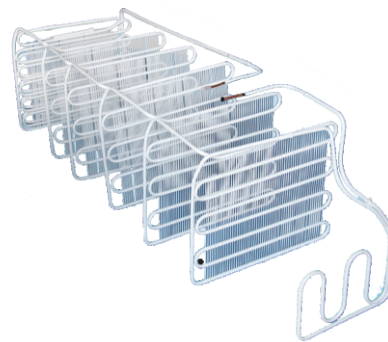
R134a Refrigeration System Inner Tube Standard

残留油分量 Residual oil content	$\leq 7\text{mg}/\text{m}^2$	
残留杂质 Residual impurities	$\leq 50\text{mg}/\text{m}^2$	
单个杂质 Single impurity	$\leq 2\text{mg}$	
残留水量 Residual water volume	内容积/ cm^3 Internal volume	残留水量/mg Residual Moisture
	≤ 100	≤ 10
	101-200	≤ 20
	201-400	≤ 25
	401-800	≤ 30

涂层质量性能标准

Coating quality performance standards

涂层厚度 Coating thickness	阴极电泳漆膜厚 $15 \sim 25\mu\text{m}$; 丝管式蒸发器喷粉涂层厚 $60 \sim 300\mu\text{m}$ Cathodic electrophoretic paint film thickness $15 \sim 25\mu\text{m}$; Powder spraying coating thickness of wire tube evaporator is $60 \sim 300\mu\text{m}$
涂层硬度 Coating hardness	$\geq 2\text{H}$
涂层耐冲击性能 Impact resistance of coating	耐 $50\text{cm} \cdot \text{kg}/\text{cm}$ 冲击无开裂 Resistance to $50\text{cm} \cdot \text{kg}/\text{cm}$ impact without cracking
涂层柔韧性 Coating flexibility	弯曲 $R=3D$, 弯曲角度 180° , 涂层无开裂、脱落 Bending $R=3D$, bending angle 180° , no cracking or peeling of coating
喷粉涂层色差 Color difference of powder spraying coating	$\Delta E \leq 1.5$
涂层耐腐蚀 Corrosion resistance of coating	阴极电泳 $\geq 72\text{h}$; 喷粉涂层 $\geq 100\text{h}$ Cathodic electrophoresis $\geq 72\text{h}$; Powder spraying coating $\geq 100\text{h}$



产品简介

PRODUCT INTRODUCTION

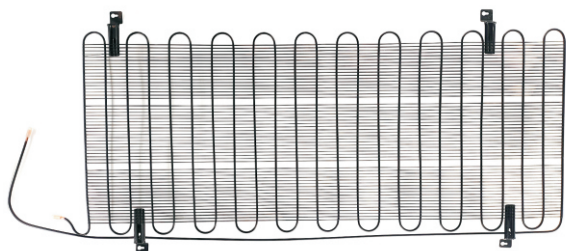
丝管式冷凝器 Wire tube condenser

主要原材料 Main Raw Material	结构形式 Structural Style
卷焊钢管 $\phi 4.76 \sim \phi 6.35 \times 0.71$ Rolling welded steel pipe	背挂平板式 Back hung flat type
散热丝:低碳钢丝 $\phi 1.4 \sim \phi 1.6$ low carbon steel wire	
支架:冷轧板 $t=0.6 \sim 2.0$ Bracket: cold rolled sheet	吊装折叠式或卷筒式 Lifting folding or drum type
散热钢板:冷轧板 $t=0.6 \sim 0.8$ Heat dissipating steel plate: cold rolled plate	



- 钢丝间距 $\geq 5\text{mm}$
- Steel wire spacing $\geq 5\text{mm}$

• 任何特殊的功能或需求，我们将为您提供最优的解决方案。
• For any special functions or requirements, we will provide you with the optimal solution.



丝管式蒸发器冷凝器系列产品性能

Performance of wire tube evaporator condenser series products

- 1) 产品表面电泳或喷粉，满足产品使用过程的防腐性要求
 - 2) 内部清洁度符合 R134a 或 CFC 制冷系统要求
 - 3) 满足所设计冰箱、冷柜的冷冻性能以及散热性能要求
- 1) Electrophoresis or powder spraying on the surface of the product to meet the anti-corrosion requirements of the product during use.
2) Internal cleanliness meets R134a or CFC refrigeration system requirements.
3) Meet the refrigeration performance and heat dissipation performance requirements of the designed refrigerators and freezers

旋翅式冷凝器 Rotary fin condenser

绕片式换热器是一种通过特殊工艺加工而成的钢制换热器，通过厂家自制的加工设备，把6-10mm宽的钢片螺旋缠绕在大于等于4mm的钢管上，从而形成一根20m左右的翅片管，再通过一些特殊的弯曲工艺，弯曲形成各种结构的换热器。

The spiral fin heat-exchanger was produced with special processing method, and all material was teel. The company made the equipment itself, and it can make the 6-10mm wide steel plate spiral winding on small steel tube(the minimum O.D was 4mm), and it can produce maximum 20m long spiral fin tube. Then there were all kinds of shape produced with the long steel fin tube, which was bent with special processing.



小管径底冷凝器主要用于冰箱领域，其特殊外形可适应冰箱底部空间，换热效果好。产品表面采用电泳工艺，可根据盐雾试验要求进行特殊处理。

Small tube bottom spiral fin condenser was mainly used in refrigerator, and its special shape was good at filling all space in the bottom of the refrigerator. The performance was good. The surface covered with black electro phoretic coating, and we can design according to customer's requirement.



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• For any special functions or requirements, we will provide

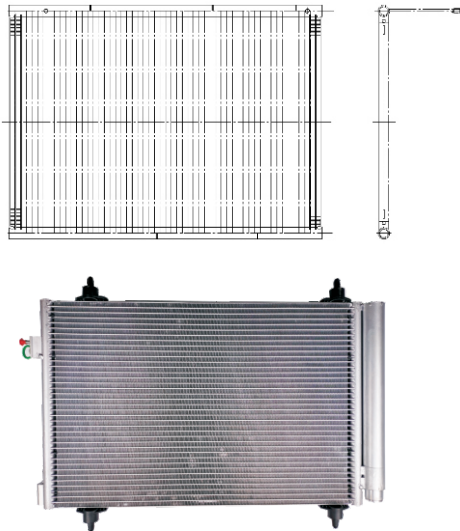
微通道冷凝器 Micro channel condenser

序号 No.	项目 Item	冷凝器 Condenser	
1	扁管参数 Flat Tube Dimension	宽度 Width(mm)	12~38
2		厚度 Thickness(mm)	1.4~2.5
3		孔数 Hole quantity	1~20
4	翅片参数 Fin Dimension	高度 Hight(mm)	≥8
5		节距 Wave Distance(mm)	>5.5
6		宽度 Width(mm)	≥12
7	电加热 Heater	功率 Power (W)	1
8	表面处理 Surface treatment	喷漆, 电泳, 静电喷涂 Painting, electrophoresis, electrostatic spraying	

任何特殊的功能或需求, 我们将为您提供最优的解决方案。
Our technical department will offer professional suggestions for any special functions or demands to meet all requirements of customers

平行流微通道冷凝器

Parallel flow microchannel condenser



平行流微通道冷凝器是目前普遍应用的换热器, 我们经过改良, 目前可以用于小风量的冷冻冷藏市场, 如厨房冷柜、饮料柜等领域。

We design new parallel flow micro-channel heat-exchanger which was suit for freezing and refrigeration market, such as kitchen refrigerator, back bar, and etc.

折叠式微通道冷凝器

Folding microchannel condenser



折叠式微通道换热器是通过一根或多根多孔扁管弯曲成S型结构, 在管与管之间焊接上翅片而形成一个长流道的微通道换热器。这种换热器所用扁管内腔通流面积小, 正好适应了冰箱、冷柜中的流量、风量、换热量小的特点, 在冰箱冷柜产品中得到广泛应用。

Folded micro-channel heat-exchanger was made of one or more flat tube which bent to "S" structure, then fill in fin between the tubes to build a whole micro-channel heat-exchanger. This heat-exchanger was mainly used in freezer and refrigerator which work in low inner flow rate, low outer air flow rate and low performance

产品简介

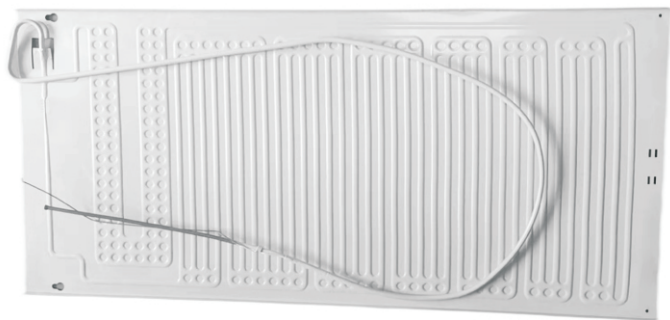
PRODUCT INTRODUCTION

吹胀式蒸发器 Roll-bond evaporator

主要原材料 Main Raw Material	结构形式 Structural Style	产品性能 Product performance
铝板: Aluminum plate: 成品板厚 1.0 ~ 2.5 Finished plate thickness 1.0~2.5 原材料铝板厚1.5~3.0 Raw material aluminum plate thickness 1.5~3.0	双面胀 Double sided expansion 单面胀 single sided expansion 局部单面胀 partial single sided expansion	1)产品表面喷塑，满足使用过程的防腐性要求 The surface of the product is sprayed with plastic to meet the anti-corrosion requirements during use 2)内部清洁度能符合 R134a 或 CFC 制冷系统要求 Internal cleanliness can meet R134a or CFC refrigeration system requirements 3)满足所设计的冰箱、冷柜制冷性能要求。 Meet the designed refrigeration performance requirements of refrigerators and freezers.

R134a 制冷系统内管标准 R134a Refrigeration System Inner Tube Standard

残留油量 Residual oil content	≤7mg/㎡	
残留杂质 Residual impurities	≤60mg/㎡	
单个杂质 Single impurity	≤2mg	
残留水量 Residual water volume	内容积/cm ³ Internal volume	残留水量mg Residual Moisture
	≤100	≤10
	101-200	≤20
	201-400	≤25
	401-800	≤30



技术能力:

根据客户图纸或样品要求定制，并能协助客户进行产品设计、制造各种型号规格冰箱、冷柜用吹胀式蒸发器。

Technical capabilities:

Customized according to customer drawings or sample requirements, and able to assist customers in product design, manufacturing various models and specifications of refrigerators, freezers, and inflatable evaporators.

涂层质量性能标准

Coating quality performance standards



涂层厚度 Coating thickness	涂层厚度 40~90μm Coating thickness 40~90 μm
涂层硬度 Coating hardness	≥2H
涂层耐冲击性能 Impact resistance of coating	耐50 cm · kg/cm冲击无开裂 Resistance to 50 cm · kg/cm impact without cracking
涂层附着力 Coating adhesion	≥2级
涂层柔韧性 Coating flexibility	弯曲 R=3D，弯曲角度 180°，涂层无开裂、脱落 Bending R=3D, bending angle 180°, no cracking or peeling of coating
喷涂涂层色差 Color difference of sprayed coating	ΔE ≤ 1.5

粘结式蒸发器

Tube on plate evaporator

主要原材料：

铜或铝管：外径中6~中8mm，壁厚 $t \geq 0.6$

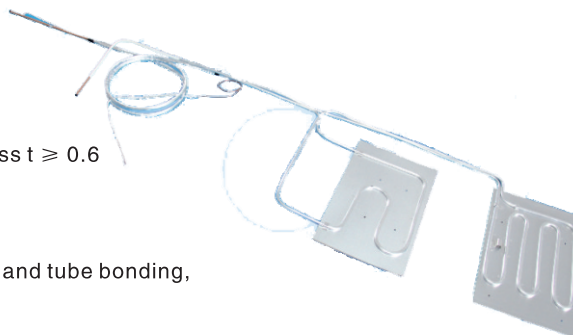
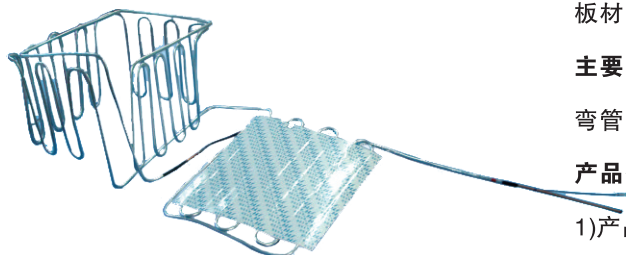
板材：铝板，厚度 ≥ 0.4

主要工序：

弯管、铜铝焊接、银焊组装、板管粘结、冲压、贴双面胶、包装

产品性能：

- 1) 产品表面阳极氧化或套热缩管保护以防腐蚀
- 2) 内部清洁度符合 R134a 或 CFC 制冷系统要求
- 3) 满足所设计冰箱的冷冻性能要求



Main raw materials:

Copper or aluminum pipe: 6~8mm in outer diameter, wall thickness $t \geq 0.6$

Plate: aluminum plate, thickness ≥ 0.4

Main processes:

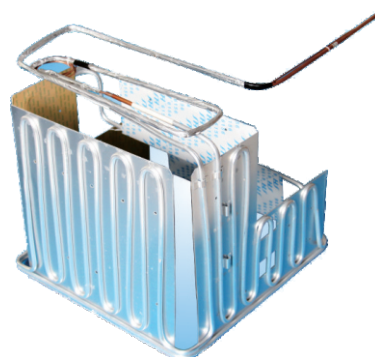
Elbow, copper aluminum welding, silver welding assembly, plate and tube bonding, stamping, double-sided adhesive bonding, packaging

Product performance:

- 1) The surface of the product is anodized or protected with heat shrinkable tubes to prevent corrosion
- 2) Internal cleanliness meets R134a or CFC refrigeration system requirements
- 3) Meet the refrigeration performance requirements of the designed refrigerator

R134a 制冷系统内管标准
 R134a Refrigeration System Inner Tube Standard

残留油分量 Residual oil content	$\leq 7\text{mg}/\text{m}^3$	
残留杂质 Residual impurities	$\leq 30\text{mg}/\text{m}^3$	
单个杂质 Single impurity	$\leq 2\text{mg}$	
残留水量 Residual water volume	内容积/ cm^3 Internal volume	残留水量mg Residual Moisture
	≤ 100	≤ 10
	101-200	≤ 20
	201-400	≤ 25
	401-800	≤ 30



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产品简介

PRODUCT INTRODUCTION

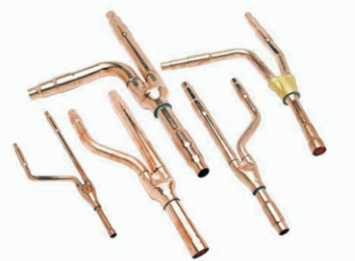
制冷配件 Refrigeration accessories



干燥过滤器 Drying filter



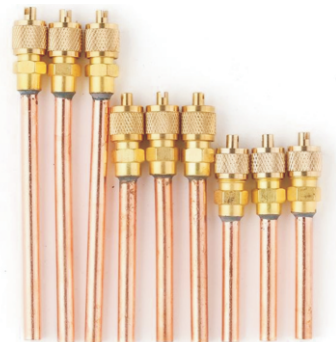
空调截止阀
Air conditioning shut-off valve



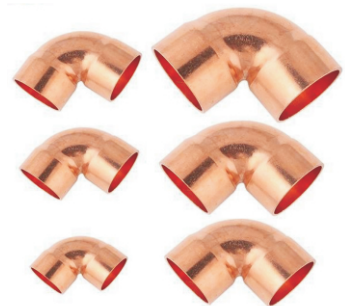
分枝管
Branch pipe



U型弯头 U-bend



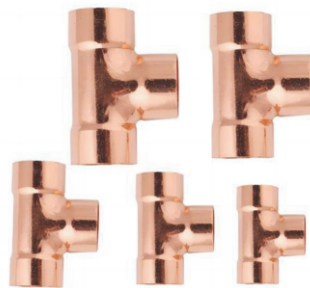
顶针阀接头
Ejector valve connector



插入式铜弯头
Plug-in copper elbow



分液器 Knockout



铜管三通接头
Copper pipe tee joint



变径接头
Reducing joint



Y型三通
Y-shaped tee



铜盖帽
Copper cap



毛细管铜接头
Capillary copper connector

质量管理体系认证证书

QUALITY MANAGEMENT SYSTEM CERTIFICATE



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