

新乡市长晟制冷设备有限公司
XINXIANG CHANGSHENG
REFRIGERATION EQUIPMENT CO., LTD

蒸发器/冷凝器/换热器/制冷配件
Evaporator/Condenser/Heat Exchanger/Refrigeration Accessories

长耕不辍 晟启新程

Long-term dedication without pause New journey begins with brilliance

制器求精 冷暖同行

Strive for excellence in craftsmanship Share joys and sorrows together

• 长耕不辍，以匠心深耕制冷领域；
Persist in cultivation without cessation, deeply explore the field of refrigeration with a meticulous craftsmanship;

• 晟启新程，以创新开启技术边界；
Refine the products, manufacture them green to pursue excellence;

• 制器求精，以绿色制器追求精良；
Initiate a new journey, open up the technological boundaries with innovation;

• 冷暖同行，以真诚服务连接你我。
Coexist in warmth and coolness, connect you and me with sincerity.



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产品服务客户，质量塑造品牌
Products serve customers, quality builds brand



公司简介



COMPANY INTRODUCTION



新乡市长晟制冷设备有限公司是一家集开发、制造于一体的实业企业，以生产铜管铝翅片式蒸发器、冷凝器，铝管铝翅片式蒸发器、冷凝器，丝管式蒸发器、冷凝器，管路件等产品为主。生产设备先进、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。

产品主要应用于实验仪器、展示柜、冰箱冰柜、工业产品换热器、表冷器、农机空调、驻车空调等。中石化中石油油气净化设备、中兴大数据中心散热设备等也采用了我司的产品，并且取得了良好的口碑。

我公司持有自主研发专利3项，拥有多台翅片高速冲床，铜管自动下料机、自动焊接机、大型立式胀管机、钣金激光切割机、激光焊机等先进设备，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。

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，全力打造“长晟”品牌。

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 Changsheng Refrigeration Equipment Co., Ltd is an integrates development and manufacturing industrial enterprise. We mainly produce copper tube aluminum fin evaporator and condenser, aluminum tube aluminum fin evaporator ,wire on tube condenser, tube components, and other related products.

Advanced production equipment and strong technical force. We have experienced engineering and technical personnel, complete product testing facilities, and a strict quality assurance system.

The products are mainly used in experimental instruments, display cabinets, refrigerators and freezers, industrial product heat exchangers, surface coolers, agricultural machinery air conditioners, parking air conditioners, etc. Sinopec's oil and gas purification equipment and ZTE's big data center cooling equipment have also adopted our company's products and achieved good reputation.

Our company holds 3 independent research and development patents, and has advanced equipment such as multiple finned high-speed punches, copper tube automatic cutting machines, automatic welding machines, large vertical expansion machines, sheet metal laser cutting machines, and laser welding machines. We have the ability to independently research and develop, and can develop, trial produce, and mass produce new products according to user requirements with efficient, professional technology, and good services.

Our company always adheres to the principle of "efficient management, good products, high-quality service, and good reputation" to face society with integrity, and strives to build the "Changsheng" brand.

We sincerely welcome people all over the world to visit us and develop business relationships, explore cooperation channels, and seek common development!



7台高速冲床



3台激光切割机



高精度胀管设备及自动焊接机



自动铜管折弯机

业务领域 → →

Business area

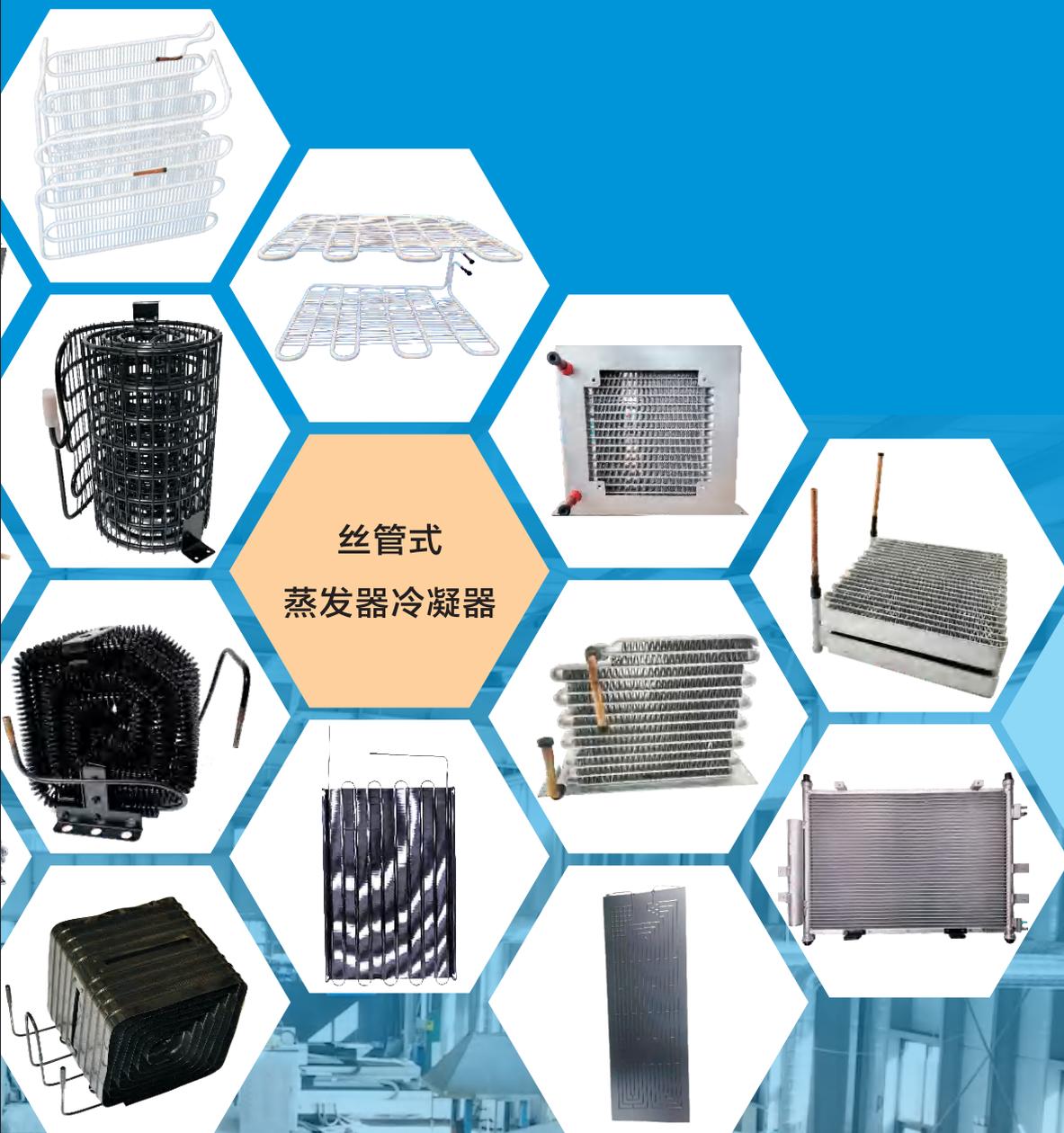
铜管
铝翅片换热器

全铝
翅片换热器系列

胀管区
expand tube area

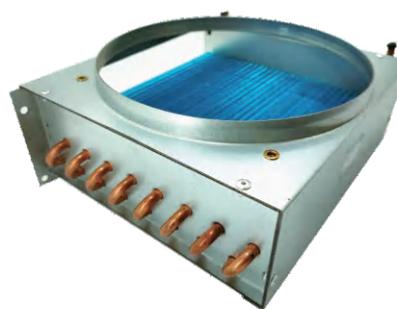
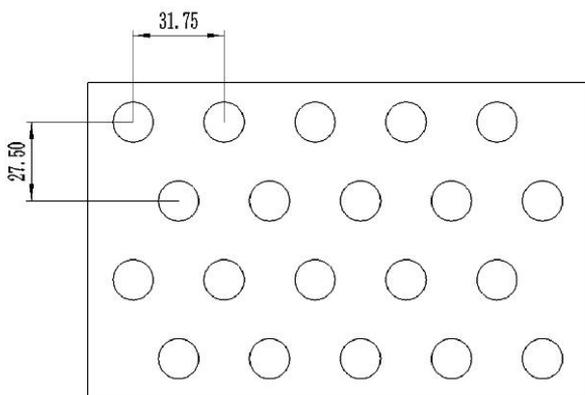
丝管式
蒸发器冷凝器

微通道
冷凝器



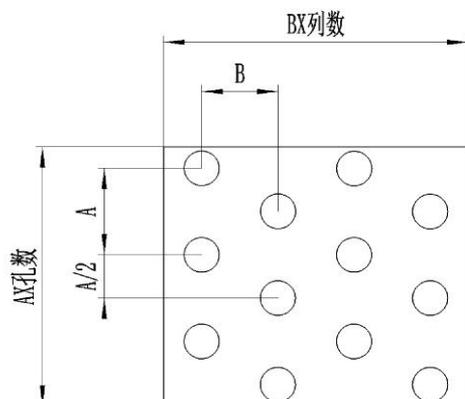
铜管铝翅片换热器系列 → →

Copper Tube Aluminum Fin Heat Exchanger Series



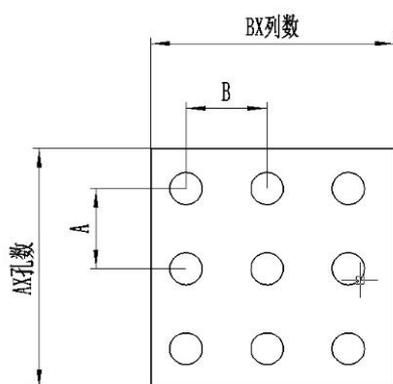
- 可选择防护涂层，也可根据客户盐雾试验要求设计。
- 任何特殊的功能或需求，我们将为您提供最优的解决方案。
- Can be selected, or design according to Customer's salt spray test requirement.
- Our technical department will offer professional suggestions for any special functions or demands to meet all requirements of customers.

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 × 27.5 × Φ12.7mm	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)



- 可选择防护涂层,也可根据客户盐雾试验要求设计。 · Can be selected, or design according to Customer's salt spray test requirement.
- 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.

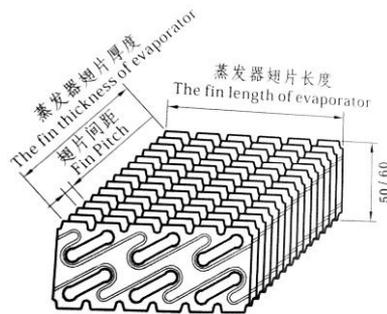
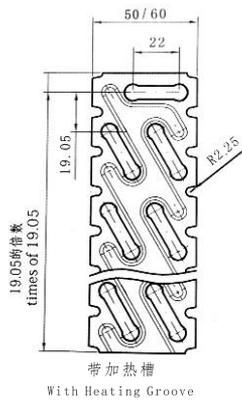
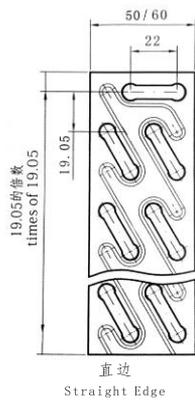
规格 Specification	管距A Tube Pitch A	列距B Row Pitch B	管径 Tube Size	管材 Tube Material	翅片间距 Fin Pitch	翅片片形 Fin Type	翅片材质 Fin Material
21 × 18.2 × Φ5.0mm	21mm	18.2mm	Φ5.0mm	铜管(光管或内螺纹管) Copper Tube (Smooth Tube or Rifled Tube)	2.5~3.5mm 可调 adjustable	波纹片 Corrugated Fin	铝箔(光箔或亲水箔) Aluminum Fin (Hydrophobic fins 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 × 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	
					1.5~6.0mm 可调 adjustable	波纹片或平片 Corrugated Fin or Flat 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	

全铝翅片换热器系列 → →

Full aluminum fin heat exchanger series



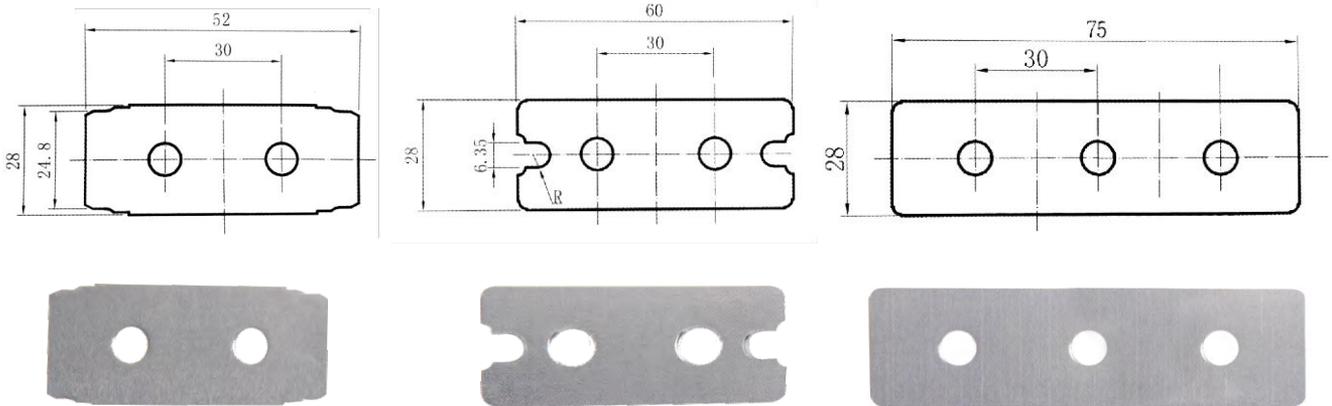
斜插式全铝翅片式换热器

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 $\geq 4\text{mm}$	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 designed 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 φ 8x0.71 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 φ 1.4- φ 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 ~ 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	≤7mg/ m ³	
残留杂质 Residual impurities	≤50mg/ m ³	
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	

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 15~25μ m ;丝管式蒸发器喷粉涂层厚 60~300μ m Cathodic electrophoretic paint film thickness 15~25μ m ; Powder spraying coating thickness of wire tube evaporator is 60~300μ m
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	ΔE ≤1.5
涂层耐腐蚀 Corrosion resistance of coating	阴极电泳 ≥72h;喷粉涂层 ≥100h Cathodic electrophoresis ≥ 72h; Powder spraying coating ≥ 100h



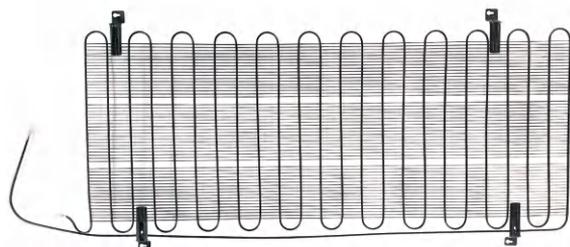
丝管式冷凝器 Wire tube condenser

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 steel. 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 electrophoretic coating, and we can design according to customer's requirement.

- 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

微通道冷凝器 → →

Micro channel condenser



参数表 Parameter Table

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	

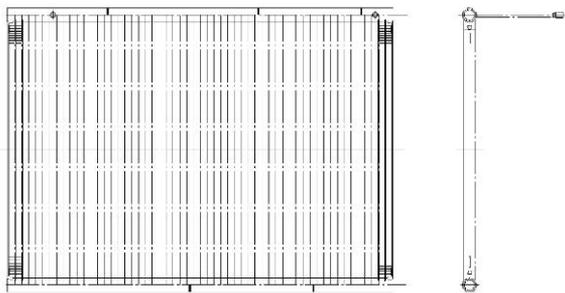
任何特殊的功能或需求, 我们将为您提供最优的解决方案。

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 suitable 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



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

残留油分量 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



制冷配件
Refrigeration accessories



干燥过滤器 Drying filter



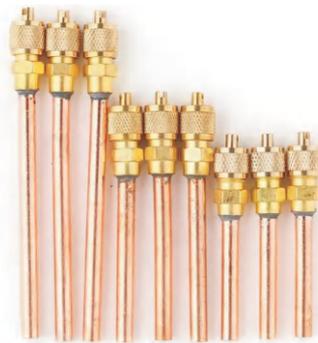
空调截止阀
Air conditioning shut-off valve



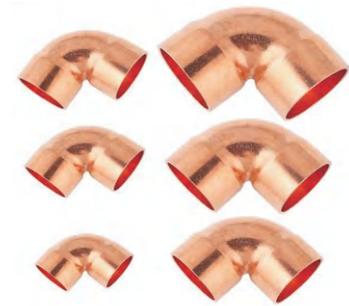
分歧管
Branch pipe



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

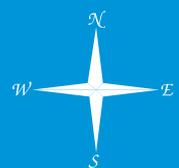


铜盖帽
Copper cap



毛细管铜接头
Capillary copper connector

客户分布范围 → → Customer distribution range



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