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股票代码：688662

FUXIN

THERMOELECTRIC TECHNOLOGY SOLUTIONS AND
APPLICATION PRODUCTS PROVIDER

半导体热电技术解决方案及应用产品提供商

FUXIN

集研发/生产/销售/服务于一体的半导体
热电技术高新企业



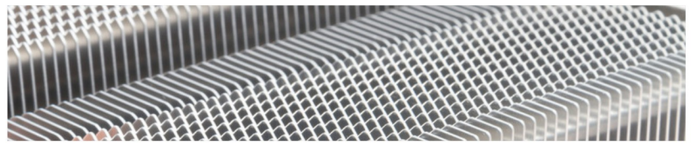
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集研发/生产/销售/服务于一体的
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企业简介
Company Profile

广东富信科技股份有限公司
半导体热电技术解决方案及应用产品提供商

广东富信科技股份有限公司创建于2003年，是一家集研发、生产、销售、服务于一体的半导体热电技术高新企业。公司致力于半导体热电制冷技术（Thermoelectric Cooling）、半导体温差发电技术（Thermoelectic Power Generation）及其产品研发,是半导体热电产品制造基地。公司主营业务半导体热电器件、半导体热电系统、半导体热电整机应用（恒温酒柜、电子冰箱、冰淇淋机、恒温床垫、啤酒机、除湿器、冻奶器等产品）。

2009年5月，公司研发中心被认定为广东省省级企业技术中心，2016年11月被认定为广东省半导体热电技术与应用工程技术研究中心，公司与武汉理工大学、河北科技大学等研究院所进行深度技术合作。



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015

Guangdong Fuxin Technology Co., Ltd.
Thermoelectric Technology Solutions And Application Products Provider

Guangdong Fuxin Technology Co., Ltd. is a national high tech enterprise of thermoelectric technology which was established in 2003, integrating R&D, production, sales and service. The company devotes to Thermoelectric Cooling Technology (TEC), Thermoelectric Power Generation Technology (TEG), and product development. The main business of Fuxin is the manufacturer of thermoelectric modules, thermoelectric systems and thermoelectric applications like wine coolers, refrigerators, ice cream makers, heating &cooling mattresses, beer coolers, dehumidifiers, milk coolers and etc.

In May 2009, the company R&D center was identified as the provincial Enterprise Technology Center of Guangdong Province. And in November 2016, the company was identified as the Thermoelectric Technology and Applied Engineering Technology Research Center of Guangdong Province. The company has deeply technical cooperation with Research institutes in thermoelectric of Wuhan University of Technology and Hebei University of Science & Technology.

热电产业链
Thermoelectric Industry Chain

广东顺德
半导体热电技术及解决方案提供商
—
Shunde,Guangdong
Supplier Of Thermoelectric Technology and Applications

四川成都
专业瓷板生产工厂
—
Chengdu,Sichuan
Professional Ceramic Production Plant

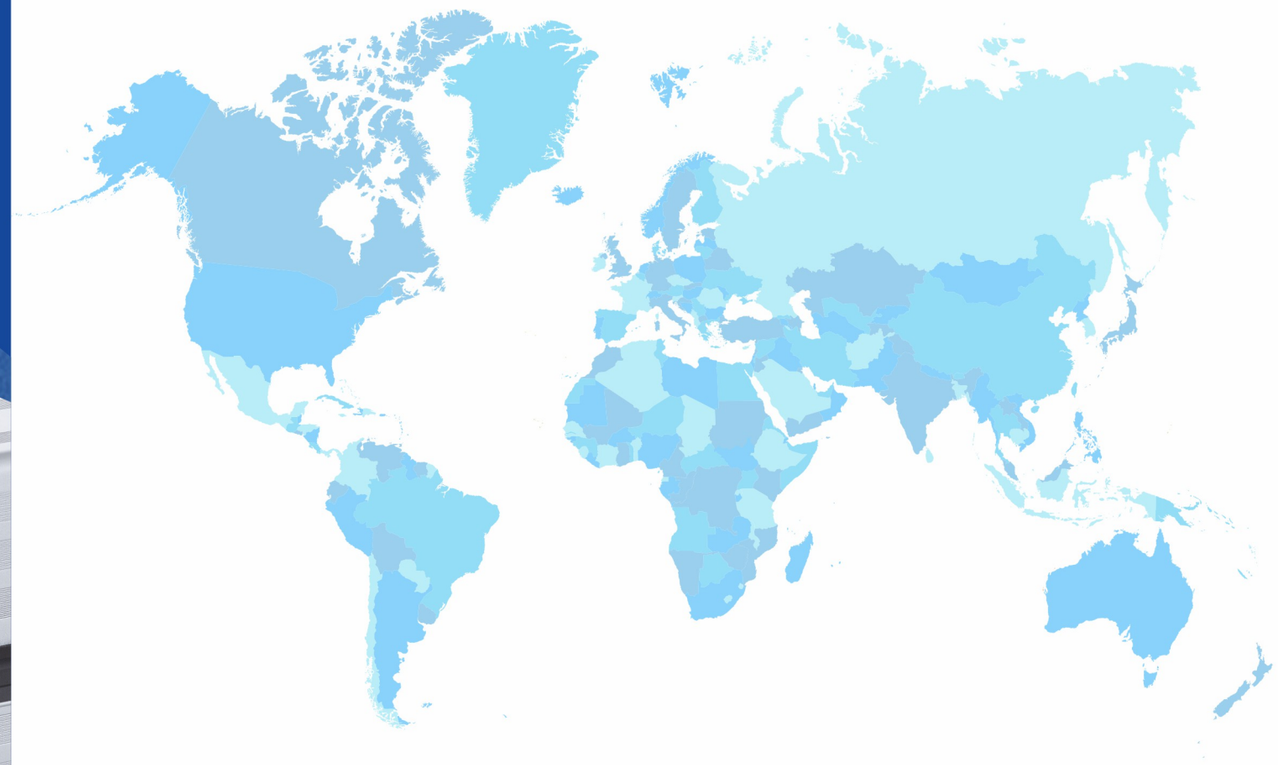
广东顺德
专业热电器件生产基地
—
Shunde,Guangdong
Professional Thermoelectric Cooling Module Plant

广东顺德
专业热电系统生产基地
—
Shunde,Guangdong
Professional Thermoelectric Cooling System Production Plant

广东顺德
专业热电产品生产基地
—
Shunde,Guangdong
Professional Thermoelectric Application Products Production Plant



合作案例
Cooperation Case



家电领域
Home Appliance Field

生物医疗领域
Biological Medical

汽车领域
Automotive

工业和环保领域
Industry and Environmental

通讯领域
Telecommunications

注：以下排名不分先后

热电应用领域
Thermoelectric Application



- 无震低噪 | 无运动部件
  No vibration and low noise
  No moving parts
- 精准控温 | ±0.1°C细微温差
  Precise temperature control
  ±0.1°C slight temperature difference
- 小巧轻便 | 无大体积压缩机
  Small and light
  No large volume compressor
- 高效可靠 | ≤0.2%;超低故障率
  Efficient and reliable
  ≤0.2%: Ultra-low failure rate
- 绿色环保 | 无泄漏威胁
  Green Environmental
  No leakage threat
- 灵活便捷 | 制冷制热双功能
  Flexible and convenient
  Cooling and heating dual function

热电应用产品领域 Thermoelectric Application Products

应用领域 Application Field	应用产品 Application Products
工业和环保领域 Industry and Environmental	工业废热发电、垃圾焚烧热发电、汽车尾气发电等。 Industrial waste heat power generation, waste incineration heat power generation, automobile exhaust power generation etc.
生物医疗领域 Biological Medical	PCR仪器、恒温培养箱、医用冷藏箱、冷冻减肥仪、胰岛素冷藏盒、智能退热仪、植物培养箱等。 PCR instrument, thermostatic incubator, medical refrigerator, frozen weight loss instrument, insulin refrigerator, intelligent antipyretic instrument, plant incubator etc.
光电子领域 Electronics Industry	高清摄像头控温、工业除湿机、红外成像仪、半导体空调、激光二极管、光电倍增管等。 HD camera temperature control, industrial dehumidifier, infrared imager, semiconductor air conditioner, laser diode, photomultiplier tube etc.
汽车领域 Automotive	车载冰箱、汽车冷暖座垫、汽车动力电池热管理、无人驾驶汽车传感器热管理、车用冷暖杯、冷藏包、冷暖包等。 Car refrigerator, car warm and cold seat cushion, car power battery thermal management, driverless car sensor thermal management, car warm and cold cup, cooling bag, cold and warm bags etc.
通讯领域 Telecommunications	数据中心、骨干网和城域网、接入网、5G网、激光发射器、光接收器、泵浦激光器等。 Data center, backbone network and metropolitan area network, access network, 5G network, laser transmitter, optical receiver, pump laser etc.
民用消费品领域 Consumer Electronics	大家电：红酒柜、冰箱、冷热箱、雪茄柜等。 厨房小家电：冰淇淋机、酸奶机、母乳包、冻奶器、巧克力机等。 生活电器：冷暖床垫、除湿机、啤酒机、空调扇、化妆品冷藏箱、新风空调、冷热杯、恒温米柜、冷热饮水机、冷热净水器、暖脚套等。 个人护理电器：负离子电吹风、水离子电吹风、美容仪、冷热锤、激光冰点脱毛仪等。 娱乐电器：手机散热器等。 Home appliances: wine cooler, minibar, cooling and heating box, cigar humidor etc. Kitchen appliances: ice cream maker, yoghourt maker, breast milk box, milk cooler, chocolate cooler etc. Life appliances: heating and cooling mattress, dehumidifier, beer cooler, air-conditioning fans, cosmetic cooler, fresh air conditioner, hot and cold cup, constant temperature rice cabinet, water dispenser, water purifier, foot warmer etc. Personal care appliances: negative Ion hair dryer, water Ion hair dryer, beauty instrument, hot and cold hammer, laser freezing point hair removal instrument etc. Entertainment appliances: mobile phone radiator etc.
新能源领域 New Energy	热能表、太阳能热电、LNG冷能温差发电等。 Thermal energy meter, solar thermal power, LNG cold energy temperature difference power generation etc.
空间军事领域 Aerospace & Defense	军用红外探测器冷却、空间光电子芯片的冷却、军用制水壶、军用调温服等。 Military infrared detector cooling, space photoelectronic chip cooling, military kettle, military temperature control clothing etc.

富信系列产品

Fuxin Series Products

富信PTA-A系列产品

Fuxin PTA-A Series



PTAA-070



PTAA-100

产品概述 Products Description

通过空气制冷和散热，为冷却对象提供可靠的制冷能力，广泛应用于通讯电池仓恒温，工业设备控制箱降温等产品上。

Through air refrigeration and heat dissipation, it provides reliable refrigeration capacity for cooling objects. It is widely used in keeping constant temperature for communication battery warehouse, and to cool industrial equipment control box & other products.

应用范围 Application Field

- 机箱散热
- 室外配电站散热
- 食品和饮料冷却
- 储能系统
- 移动基站和信号塔电池柜散热
- Industry cabinet
- Outdoor distribution power station heat dissipation
- Food and beverage cooling
- Energy storage system
- Mobile base station and signal tower battery cabinet heat dissipation

产品特征 Product Characteristics

- 无压缩机无氟利昂
- 工作温度-40°C到+55°C
- 可选恒温控制器
- 高可靠性
- 满足Telcordia（电信行业网络设备构建系统标准）要求
- No compressor and freon free
- Temperature range from -40°C to +55°C
- Optional thermostat controller
- High reliability
- Meet the requirements of Telcordia(Telecommunication Industry Network Equipment Construction System Standard)

型号 Product Type	描述 Product Description	供电电压 (DC V) Supply Voltage	起始电流 Start Current	稳态电流 Stable Current	电功率 Power	制冷功率 (△T=0) QC Max	重量 Weight(Kg)	尺寸 Dimension(mm)
PTAA-024-A	空冷系统-024-12-22	12Max15	2.7	2.4	29	24	0.6	80*62*105
PTAA-024-B	空冷系统-024-12-22	12Max15	2.7	2.4	29	24	1	115*95*142
PTAA-040	空冷系统-040-12-22	12Max15	7	6.3	76	40	1. 8	160*122*147
PTAA-055	空冷系统-055-12-22	24Max30	3.4	3.1	74. 5	55	1.65	180*95*142
PTAA-060	空冷系统-060-12-22	12Max15	7.2	5.7	74	60	2.5	230*122*146
PTAA-070	空冷系统-070-24-22	24Max30	4.7	3.6	91	70	2.5	230*122*152
PTAA-100	空冷系统-100-24-22	24Max30	6.6	5.6	134	100	4	300*152*180
PTAA-150	空冷系统-150-48-44	48Max56	5	3.9	190	150	5.1	300*152*180
PTAA-200	空冷系统-200-48-44	48Max56	7.2	5.6	270	200	6.6	400*152*180
PTAA-250	空冷系统-250-24-44	24Max30	15.1	12.2	291	250	6.6	400*152*180
PTAA-480	空冷系统-480-48-44	48Max56	13.1	9.7	463	480	13.2	300*330*225

富信PTD-A系列产品
Fuxin PTD-A Series



PTDA-075



PTDA-160

产品概述 Products Description

通过空气散热，板式导冷，与冷却对象直接接触，提供制冷能力，广泛应用于医疗设备，试验装置，可以直接接触恒温的产品上。

Through air dissipating and plate cooling, it directly contacts with the cooling object to provide refrigeration capacity. And it widely used in medical equipment, test equipment, can directly contact the constant temperature products.

应用范围 Application Field

- 医疗诊断和分析仪器 / Medical diagnostic and analytical instruments
- 医用热电冷却器和组件 / Medical thermoelectric coolers and components
- 离心机冷却系统 / Centrifuge cooling system
- 高效液相色谱仪(HPLC) / High performance liquid chromatograph (HPLC)

产品特征 Product Characteristic

- 紧凑设计 / Compact design
- 控温精准 / Precise temperature control
- 高可靠性 / High reliability
- 低噪音 / Low noise
- 符合RoHS标准 / RoHS compliant

型号 Product Type	描述 Product Description	供电电压 (DC V) Supply Voltage	起始电流 Start Current	稳态电流 Stable Current	电功率 Power	制冷功率(△T=0) QC Max	重量 Weight(Kg)	尺寸 Dimension(mm)
PTDA-011	直冷系统-011-05-02	5Max5.5	2.7	2.2	11	11	0.2	50*44*56
PTDA-014	直冷系统-014-12-02	12Max15	2.3	1.8	22	14	0.2	60*40*55
PTDA-020	直冷系统-020-12-02	12Max15	3.2	2.7	33	20	0.56	100*65*82
PTDA-044	直冷系统-044-24-02	24Max30	2.8	2.2	46	44	0.6	120*100*74
PTDA-075	直冷系统-075-12-02	12Max15	8.1	7.2	86	75	1.7	230*122*86
PTDA-105	直冷系统-105-24-02	24Max30	6.7	4.9	114	105	1.7	248*82*98
PTDA-135	直冷系统-135-24-02	24Max30	7.8	6.9	166	135	2.9	300*152*92
PTDA-160	直冷系统-160-24-02	24Max30	9	7.8	178	160	3.5	300*152*100
PTDA-280	直冷系统-280-24-02	24Max30	14.8	12.3	295	280	6.1	400*180*135

富信PTL-A系列产品
Fuxin PTL-A Series



PTLA-075



PTLA-160

产品概述 Products Description

通过空气散热，液体循环制冷，与冷却对象进行热交换，提供制冷能力，广泛应用于美容医疗设备，激光设备，可分开制冷的产品上。相关的系统产品具有设计灵活，体积小，可靠性高的特点。

Through air dissipating and liquid circulation cooling, it makes heat exchange with the cooling object to provide refrigeration capacity. And it is widely used in beauty medical equipment, laser equipment, separated refrigeration products. The related system products have the characteristics of flexible design, small size and high reliability.

应用范围 Application Field

- PET和SPECT扫描仪冷却 / PET and SPECT scanner cooling
- 粒子加速器冷却：直线加速器和回旋加速器 / Particle accelerator cooling: linear accelerator and cyclotron
- 医用主轴螺杆泵冷却系统 / Medical spindle screw pump cooling system
- 试剂存储冷却器系统 / Reagent storage cooler system

产品特征 Product Characteristics

- 紧凑设计 / Compact design
- 控温精准 / Precise temperature control
- 高可靠性 / High reliability
- 直流电 / Direct Current
- 符合RoHS标准 / RoHS compliant

型号 Product Type	描述 Product Description	供电电压 (DC V) Supply Voltage	起始电流 Start Current	稳态电流 Stable Current	电功率 Power	制冷功率(△T=0) QC Max	重量 Weight(Kg)	尺寸 Dimension(mm)
PTLA-024	水冷系统-024-12-02	12Max15	2.8	2.2	29	24	0.5	65*60*81
PTLA-045	水冷系统-045-24-02	24Max30	3.2	2.8	60	45	1.3	160*122*92
PTLA-075	水冷系统-075-24-02	24Max30	4.3	3.4	89	75	2	230*122*92
PTLA-115	水冷系统-115-24-02	24Max30	6.6	5.3	140	115	3.2	300*152*98
PTLA-140	水冷系统-140-24-02	24Max30	6.8	5.5	150	140	2.33	300*122*92
PTLA-160	水冷系统-160-24-02	24Max30	7.8	6.6	178	160	3.7	300*152*106
PTLA-200	水冷系统-200-24-02	24Max30	8.6	7.4	206	200	4.1	300*180*106
PTLA-400	水冷系统-400-24-02	24Max30	16.5	13.3	319	400	9.2	330*200*175

富信PTD-L & PTL-L系列产品
Fuxin PTD-L & PTL-L Series

产品概述 Products Description

液冷系统，通过对液体和铝板冷却物体来提供可靠，紧凑的散热性能。液冷散热系统利用泵使散热管中的冷却液循环并进行散热，具有散热效率高，制冷量大，制冷速度快的特点。液冷系统广泛应用于医疗诊断仪器，分析仪器，可以直接接触恒温的产品上。

The liquid cooling system provides reliable, compact heat dissipation by cooling the liquid and aluminum plates. The liquid cooling system uses the pump to circulate the cooling liquid in the heat exchanger pipe and dissipate the heat, which has the characteristics of high heat dissipation efficiency, large cooling capacity and fast refrigeration speed. Liquid cooling system is widely used in medical diagnostic instruments, analytical instruments, and can directly contact the constant temperature products.

应用范围 Application Field

- 医学诊断仪器 Medical diagnostic instruments
- 工业激光器 Industrial laser
- 医用激光器 Medical laser
- 分析仪器 Analytical instrument

产品特征 Product Characteristics

- 紧凑设计 Compact design
- 控温精准 Precise temperature control
- 高可靠性 High reliability
- 直流电 Direct current
- 符合RoHS标准 RoHS compliant

型号 Product Type	描述 Product Description	尺寸 Dimension(mm)
PTDL-060	液冷系统-060-12-00	100*60*38
PTDL-210	液冷系统-210-24-00	240*60*40
PTLL-060	液冷系统-060-12-00	100*60*52
PTLL-120	液冷系统-120-24-00	140*60*52
PTLL-210	液冷系统-210-24-00	240*60*54

富信冰箱系统系列化
Refrigerator System



PT-BX055

产品概述 Products Description

通过风扇强制对流散热，板式导冷，与冷却对象直接接触（或者通过对流方式），为冷却对象提供降温的条件。

Through forced convection heat dissipation of the fan, plate cooling, it directly contacts with the cooling object (or by convection), so that it can provide cooling conditions for the cooling object.

应用范围 Application Field

- 电子冰箱 Refrigerator
- 车载冰箱 Car fridge
- 药品盒 Medical cooler box
- 电子酒柜 Wine cooler
- 美妆箱 Cosmetics cooler
- 冷杯 Cooling cup
- 车载冷包 Car cooling bag
- 雪糕机 Ice-cream maker
- 酸奶机 Yogurt maker
- 食品存储 Food storage
- 母婴产品 Maternal and child products (milk cooler)

产品特征 Product Characteristics

- 精确控温 Precise temperature control
- 可靠性高 High reliability
- 结构紧凑 Compact structure
- 噪音低 Low noise
- 制冷效果好 Excellent cooling performance

型号 Product Type	描述 Product Description	制冷功率（W） Cooling Power	尺寸（长*宽*高；含散热风扇9025） Dimension(mm)
PT-BX025	025-12-40-D	9	90*90*58
PT-BX030	030-12-30-D	11	90*90*75
	030-12-30-A	11	90*90*77
	030-12-40-D	11	90*90*75
	030-12-40-D	11	90*90*77
	030-12-40-D-C	11	90*90*72
PT-BX040	040-12-30-D	15	120*100*77
	040-12-30-A	15	120*100*80
	040-12-40-D	15	120*100*77
	040-12-40-D	15	120*100*80
	040-12-40-D-C	15	120*100*75
PT-BX043	043-12-40-D-S	16	149*121*92
	043-12-40-D-S	16	149*121*96
PT-BX045	045-12-30-D	17	140*100*75
	045-12-30-A	17	143*120*100
PT-BX055	055-12-40-D	20	144*90*86
	055-12-40-A	20	144*90*88
PT-BX065	065-12-40-A	23	208*144*102

静音冰箱/酒柜系统系列化
Silent Refrigerator System



PT-JY17A



PT-JY25A



PT-JY30A

产品概述 Product Description

通过自然散热，板式导冷，与冷却对象直接接触（或者通过对流方式），为冷却对象提供降温的条件。

Through natural heat dissipation, plate cooling, it directly contacts with the cooling object (or by convection), to provide cooling conditions for the cooling object.

应用范围 Application Field

- 电子冰箱
- 电子酒柜
- 酒店冰箱
- 美妆箱
- Refrigerator
- Wine cooler
- Hotel mini bar
- Cosmetics cooler

产品特征 Product Features

- 精确控温
- 可靠性高
- 无噪音
- 寿命长
- 制冷性能好
- Precise temperature control
- High reliability
- Noiseless
- Long lifetime
- Excellent cooling performance

型号 Product Type	描述（功率-电压-制冷片尺寸-散冷方式）Product Description	供电电压 (DC V) Supply Voltage	稳态电流（A）Stable Current	电功率（DC W）Power	建议使用空间 (L)	制冷深度 (℃)	尺寸（长*宽*高）Dimension(mm)
PT-JY17A	045-12-40-25-R	12	3	36	17	10	318*254*102
PT-JY25A	045-12-40-25-R	12	3.75	45	25	10	350*300*120
PT-JY30A	048-12-40-30-R	12	3.75	45	30	10	390*285*120
PT-JY40A	045-12-40-40-R	12	4.5	54	40	10	368*346*128.5

富信冰箱深冷系统系列化
Cryogenic Refrigerator System



PT-SL045（直冷）



PT-SL045（风冷）

产品概述 Product Description

通过风扇强制对流散热，板式导冷，与冷却对象直接接触（或者通过对流方式），为冷却对象提供降温的条件。

Through forced convection heat dissipation of the fan, plate cooling, it directly contacts with the cooling object (or by convection),so that it can provide cooling conditions for the cooling object.

应用范围 Application Field

- 电子冰箱
- 化妆品箱
- 车载冰箱
- Refrigerator
- Portable cosmetics cooler
- Car fridge

产品特征 Product Characteristics

- 温差大
- 可靠性高
- 结构紧凑
- 制冷性能好
- 直流电
- 功耗低
- Large temperature difference
- High reliability
- Compact structure
- Excellent cooling performance
- Direct current
- Low energy consumption

型号 Product Type	描述（功率-电压-制冷片尺寸-散冷方式）Product Description	供电电压 (DC V) Supply Voltage	稳态电流（A）Stable Current	电功率（DC W）Power	制冷功率 (W)	制冷深度 (℃)	推荐使用体积 (L)	尺寸（长*宽*高）Dimension(mm)
PT-SL045	045-12-40-D-S（直冷）	12	3.75	45	16	4℃	4-6L	149*121*92
	045-12-40-A-S（风冷）	12	3.75	45	16	4℃	4-6L	149*121*115
PT-SL055	055-12-40-D-S	12	4.6	55	20	5℃	6-10L	149*120*98
	055-12-40-A-S	12	4.6	55	20	5℃	6-10L	149*120*123
PT-SL065	065-12-40-D-S	12	5.5	65	23	5℃	10-13L	160*120*98
	065-12-40-A-S	12	5.5	65	23	5℃	10-13L	160*120*98

除湿机系统系列化
Dehumidification System



PT-CS200A(45A)



PT-CS400B(45E)



PT-CS800A

产品概述 Product Description

通过风扇强制对流散热，板式导冷，通过风扇使空气经过冷面，由于冷面与空气有一定的温度差，从而产生冷凝水

Through forced convection heat dissipation of the fan, plate cooling, so that the air from fan to the cold surface, the cold surface and air have a certain temperature difference to cause condensation water.

应用范围 Application Field

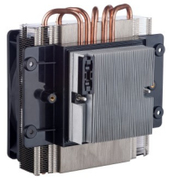
- 家用除湿机 • Household dehumidifier
- 桌面除湿机 • Table top dehumidifier
- 小空间除湿机 • Compact space dehumidifier

产品特征 Product Characteristics

- 结构紧凑 • Compact structure
- 除湿性能强 • Strong dehumidification
- 噪音低 • Low noise
- 能耗低 • Low energy consumption

型号 Product Type	描述 （功率-电压-制冷片尺寸-散冷方式） Product Description	尺寸（长*宽*高） Dimension(mm)
PT-CS200A(45A)	035-12-40	114*99.5*80
PT-CS300A	052-12-40	95*89*64
PT-CS400A	045-12-40	186*153*91
PT-CS400B（45E）	035-12-40	210*140*89
PT-CS800A	070-18-40	186*153*91

其他系统系列化
Other Systems



PT-69A
（直冷系统）



PT-QT02
（液冷系统）

型号 Product Type	描述 (功率-电压-制冷片规格-冷面散热方式-热面散热方式) Product Description	电压 (额定电压DC) Voltage	电流(DC) Current	制冷功率 (正常散热、散冷) (W)
PT-QT01	032-12-40-D-A	12V	2.5A	12W
PT-QT02（PT-57B）	055-12-40-W-J	12V	4.5A	20W
PT-QT03	055-12-40-W-J	12V	4.5A	20W
PT-QT04	113-24-40-D-W	24V	9.4A	45W
PT-QT05	113-24-40-D-J	24V	9.4A	45W
PT-QT69A	99-22-55-A-A	22V	4.5A	99W

冰胆系列化
Water Tank



PT-BD400A



PT-BD500A



PT-BD600A



PT-BD800A



PT-BD1500A

产品概述 Product Description

液冷系统，通过对液体和铝板冷却物体来提供可靠，紧凑的散热性能。液冷散热系统利用泵使散热管中的冷却液循环并进行散热，具有散热效率高，制冷量大，制冷速度快的特点。

The liquid cooling system provides reliable, compact heat dissipation by cooling the liquid and aluminum plates. The liquid cooling system uses the pump to circulate the cooling liquid in the heat exchanger pipe and dissipate the heat, which has the characteristics of high heat dissipation efficiency, large cooling capacity and fast refrigeration speed.

应用范围 Application Field

- 饮水机 • Water dispenser
- 净水器 • Water purifier

产品特征 Product Characteristics

- 制冷量大 • High cooling capacity
- 转化效率高 • High conversion efficiency
- 直流电 • Direct current
- 食品级 • Food grade

类型 Types of	型号 Product Type	容积（mL） Volume	功率（DC W） Power
普通	PT-BD400A	400	45
	PT-BD500A	500	50
	PT-BD600A	600	50
	PT-BD800A	800	55
	PT-BD1500A	1500	110
不锈钢	PT-BD500B	500	50
	PT-BD1000B	1000	65
	PT-BD1500B	1500	110