



无锡市普尔换热器制造有限公司

WUXI POWER HEAT EXCHANGER MANUFACTURING CO.,LTD.

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WUXI POWER HEAT EXCHANGER MANUFACTURING CO.,LTD.

- 普尔的生存空间在于市场
- 普尔的生命在于产品质量
- 普尔的管理精髓在于科学精细

Market is the space for Power to live

Quality is Powers life

Scientific details is the key of Powers management

普尔换热器

无锡市普尔
换热器制造有限公司

Introduction

公司简介



无锡市普尔换热器制造有限公司

WUXI POWER HEAT EXCHANGER MANUFACTURING CO.,LTD.



无锡市普尔换热器制造有限公司，地处风景秀丽的无锡国家旅游度假区，是铝制板翅式换热器的专业设计、生产企业。

公司占地面积16000m²，建筑面积10000m²。目前公司拥有职工100余人，其中专业技术人员占职工总数的30%。

公司拥有国内最先进的真空钎焊炉，以及成套的生产、制造和检测设备。换热器单元了最大钎焊尺寸为2500×1000×1000。产品最大设计压力5MPa。我公司产品广泛应用于空气分离、化学工业、石油化工、汽车、船舶、工程机械、制冷空调、压缩机等业。换热器年生产能力可达800吨以上。

本公司生产规范在国内同行业处于领先行列，可根据用户不同需求进行设计和制造。

公司以科技进步为动力，质量为企业发展的永恒主题，以满足客户的需求为经营宗旨。向国内外客户提供优质的产品和满意服务项目。

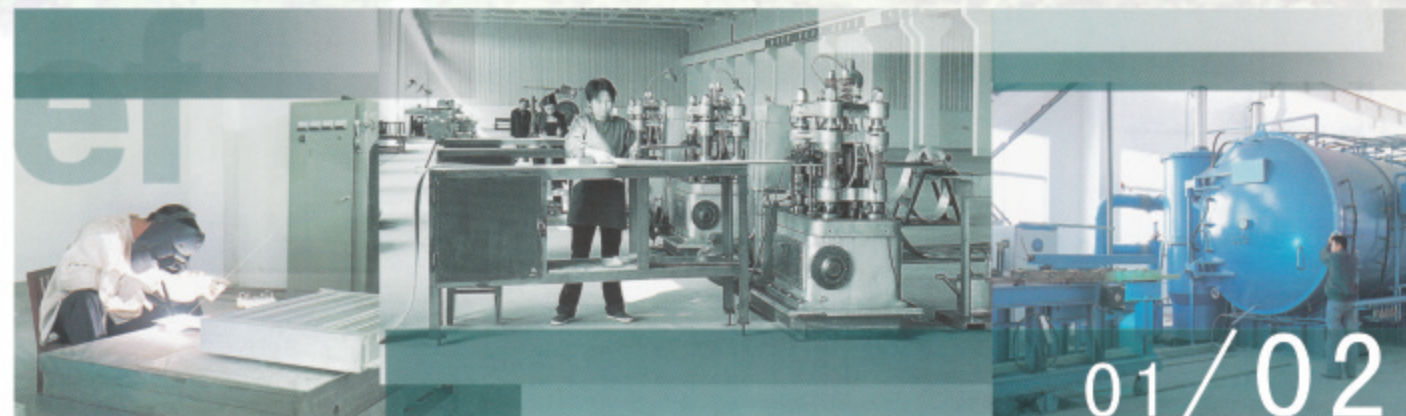
Wuxi Power Heat Exchanger Manufacturing Co.,Ltd. located at Wuxi Taihu Lake scenery tourist resort. We specialize in designing and producing aluminum plate-bar heat exchangers.

Our company covers 16000 m², and the building area is 10000m². And our annual production capacity is about 200metric tons.We have more than 100 employees,40% of whom are technical and professional.

At present, Wuxi Power has the most advanced vacuum brazing furnace, fin shaping machine and professional testing equipment. The maximum size for heat exchanger can reach to 7200×1250×1300mm. The maximum pressure of designing for product is 5Mpa. Our products are widely used in air separator, automobiles, cooling air-condition, engineering machinery, compressors etc.

Scientific and technological development is the most advanced force. Customer is the most important one. This is our commission.

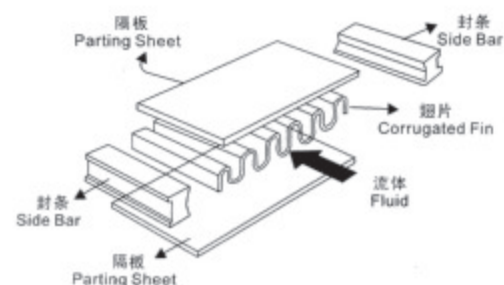
With Chinas accession to WTO,Wuxi Power Heat Exchanger Manufacturing Co.,Ltd. will supply you the best products.



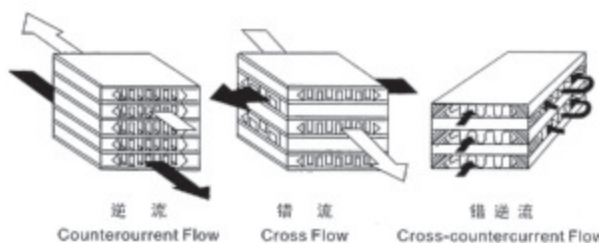
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无锡市普尔换热器制造有限公司

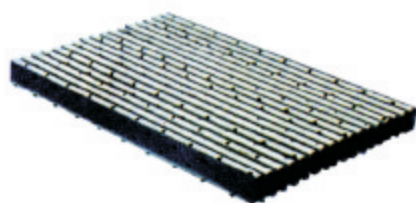
WUXI POWER HEAT EXCHANGER MANUFACTURING CO.,LTD.



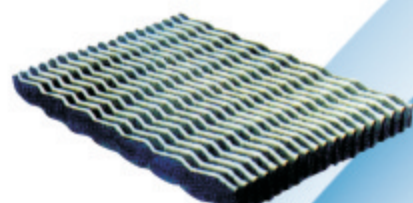
基本结构示意图
Basic Elements of a Plate-fin Heat Exchanger



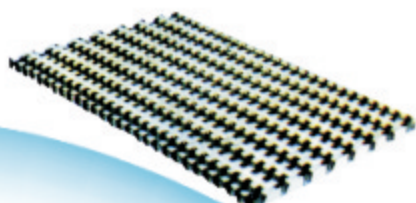
流动型式示意图
Passages Arrangement



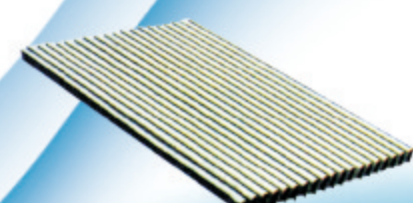
多孔型翅片
Perforated-fin



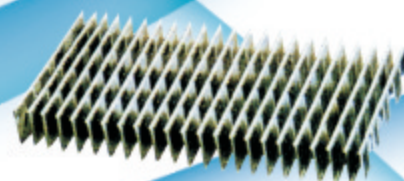
波纹型翅片
Wavy-fin



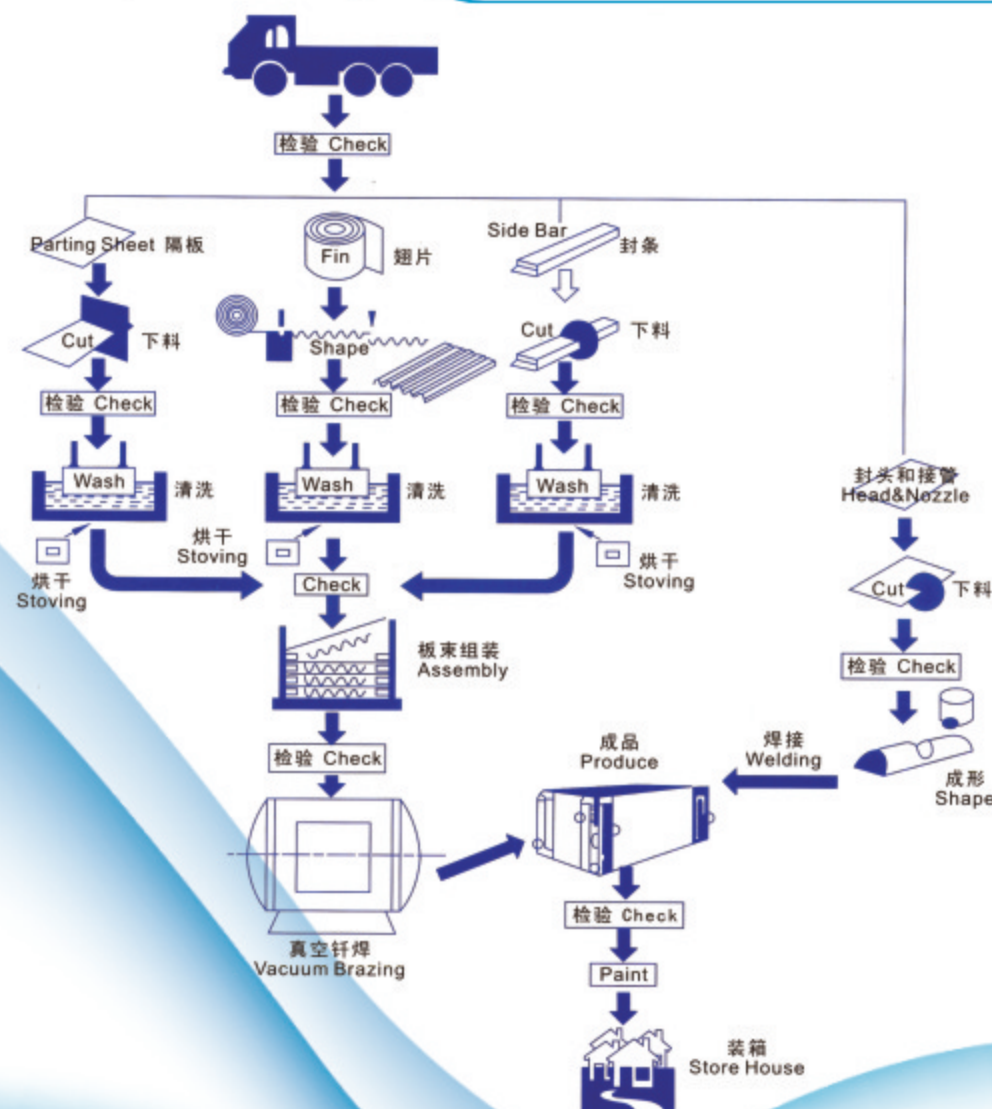
锯齿型翅片
Serrated-fin



平直型翅片
Plain-fin



百叶窗式翅片
Louvered-fin



提示和建议

1. 关于采用吹风式或吸风式风扇及冷却器的安装位置，应主要考虑防止冷却器吸入已被其它元件加热了的热空气、防止从冷却器排出的热空气影响设备和人员的正常工作以及保证进风和排风的畅通。
2. 使用中应避免流量的突然变化和压力冲击，以保证最大允许静态工作压力不被超过。为保证冷却器工作的安全性，建议用户，与冷却器并联一旁通阀（单向阀）直接通油箱。
3. 对非连续设计负荷下的系统，为了便于把油温控制在合理范围，建议用户加装一温控开关，并控制风扇的转停。
4. 由于工作系统的多样性和安装环境的复杂性，我们建议用户在系统设计阶段能咨询我们的技术部门，我们愿提供更多的技术资料供您参考。

Excavator series 挖掘机系列



	发动机功率KW Engine Power	设计压力MPa Deesign Pressure	散热面积M ² Transfer Area
0.8~2T	10~20	1.6	1.5~4.5
3.5~5.5T	25~33	1.6	3.5~15
6T	30~45	1.6	10~25
7~8T	40~60	1.6	18~30
10~13T	75~95	1.6	28~40
20T	90~120	1.6	35~45
22~23T	100~140	1.6	40~60
33T	200	1.6	90~105

为工程机系列配套的油散热器、水散热器及中冷器。

Oil cooler, water radiator and intercooler apply to the construction machinery.



泵车应用系列

Application to Pumpers



为了实现产品的标准化和系列化，便于用户选用和快捷供货，我们在充分研究了不同行业 and 不同用途用户的使用要求、并吸收国内外同类产品优点的基础上，精心设计了该型冷却器。它涵盖了从小到大各个规格，并有多重安装和连接方式可供选择，请您在选型时优先选用此型冷却器。

油散热器最大流量800L/min

工作压力最大3.5MPa

流 量	工作压力	外形尺寸	散热面积
100L/min	3.6Mpa	400×340×80	8.3m ²
160L/min	3.6Mpa	520×395×100	13.2m ²
200L/min	3.6Mpa	500×425×100	14.7m ²
250L/min	3.6Mpa	630×500×95	20m ²
315L/min	3.6Mpa	730×500×95	23m ²
350L/min	3.6Mpa	740×550×100	27.2m ²
400L/min	3.6Mpa	723×806×100	47.9m ²
500L/min	3.6Mpa	650×965×90	36m ²



07/08



Excavator series **搅拌车系列**



WB021

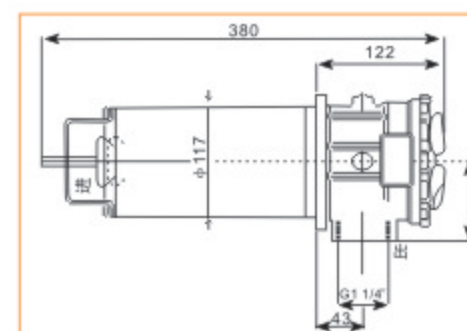


WX026

型号 Model	油箱容积 Fuel tank capacity	风叶直径 (mm) Fan diameter	风机电压 (V) Fan Motor Voltage
WB021	18L	305	24/12
WX026	25L	305	12/24

配置 Scheme

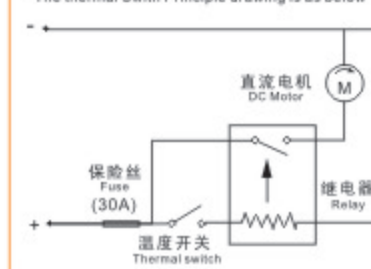
规格 Specification	冷却器 Heat exchanger	风机 Fan	过滤器 Filter	温控开关 Thermal switch	减震器 Anti-shock block
18L	1	1	1	1	1
25L	1	1	1	1	1



温度开关 Thermal switch



温度开关原理如下图:
The thermal switch principle drawing is as below



开关温度值 Temperature of Action		最高允许温度 Temperature of Action		SW (mm)	G
上限 Upper Limit +3-2℃	下限 Lower Limit +3-2℃	持续 Persistence	瞬间 Persistence		
65	60	75	95	22	M14×1.5
55	50	65	85	22	M14×1.5

- 过滤器
过滤精度10um
工作温度25-110℃
型号CF-150
- Filter
Accuracy:10um
Working Temperature: 25~110℃
Model: CF-150

一、简介

我公司生产的混凝土搅拌车用油冷却器总成系列产品，在多年的实践使用中，性能良好，受到客户的一致好评。该总成集冷却器、油箱、风扇、导风罩、风扇罩防护网、温度开关、过滤器于一体，油箱与散热器做成一体，过滤器通过法兰连接在油箱上。供选用的型号请参见第一页上的表格。

二、安装位置及连接方式

冷却器在车的安装位置，建议放在通风流畅的地方，保证冷却风的流入流出不受任何阻碍，避免经过冷却器后的热风重新流入冷却器。

冷却器由两个下支脚与车架相连，安装过程中需使用防震块，以减少车辆行驶途中的振动冲击，从而延长冷却器的使用寿命。

三、油箱

油箱顶部设有加油口和压力平衡口，侧面装有油位表。在初次使用时，加油应加到油标中线位置，加油过程中应尽量排清系统中的空气，每次加油后，应将加油螺塞盖紧。

四、电气连接

冷却器所使用的电机为直流电机，其使用寿命为3000工作小时，由于直流电机不适合于长期连续运转，为此，在使用过程中一定要与温度开关和接触器一起使用。

1. Introduction

Power Concrete mixture truck series oil coolers has achieved good reputation since coming into the market. The total assembly products are Combined together with heat exchanger, oil tank, fan guider, fan protection net thermal switch and the filter, the oil tank is together with the heat exchanger. The filter is connected to the tank, The model is for your reference in the sheet on Page 1.

2. Mounting Position and Connection style

To guarantee the cooling air flows smoothly and avoid the heat air flow back to the cooler, It is suggested that the cooler is supposed to be mounted where the cooling air is available

The feet are connected with truck shelf, Anti-Shock block has to be mounted so that the cooler may get a long life application.

3. The oil tank

There are oil inlet and pressure balance on the top of the oil tank, if first use, the oil is supposed to reach the center of the oil gauge, make sure there is no air in the hydraulic system, the bolt must be closed when finished.

4. Electricity Connection

The motor for the cooler is Direct Current Motor, the life is 3000 working hours, the thermal switch must be used when the DC Motor is running, Because a DC motor is unsuitable for long time running.

五、温度开关

温度开关的作用是通过温度开关的“开/关”动作，保证风扇间歇地工作，该温度开关供货时已经提供。我公司可提供两种不同型号的温度开关。

温度开关的工作过程如下：在油温上升过程中，当油温升高到开关温度值上限时，温度开关接通，风扇开始运转，热量通过冷却风迅速带走，从而油温迅速下降；在油温下降过程中，当油温下降到开关温度值下限时，温度开关断开，风扇停止运转。

温度开关出厂时并未装在冷却器上，使用时将温度开关装在下封头端面的M14×1.5螺纹孔内，该螺纹孔在出厂时由一闷头堵塞，将其旋出，然后将温度开关连同密封圈旋入，拧紧。

注意：温度开关旋入冷却器时，扭力最大不得超过20Nm，过大的扭力会损坏温度开关，造成根部开裂，由此产生的损坏不属于保修范围。

为避免温度开关因工作而“过热”，须使用一继电器，以保护温度开关。开关的使用参考电器原理图

六、过滤器

过滤器通过法兰与冷却器连接，该过滤器为吸油过滤器，安装完毕后，整个过滤器浸在油中，仅端盖露在油箱外，通过端盖可更换滤芯，在更换滤芯时，过滤器会自动将油路切断，因此，在更换滤芯时，不必将系统中的油排空。过滤器装有真空表，用于显示液压油的污染程度。

5. Thermal Switch

The purpose of a thermal Switch is to make the fan works discontinuously through the switch “ON/OFF” action. It is a standard spare part in the packing list. There are two different models available.

The procedure of a thermal switch is as following: When the oil temperature reaches the upper limit, the thermal switch will run, The cooling air brings the heat away, the oil temperature will be down. When to the lower limit, the thermal switch stops, and the fan stop running.

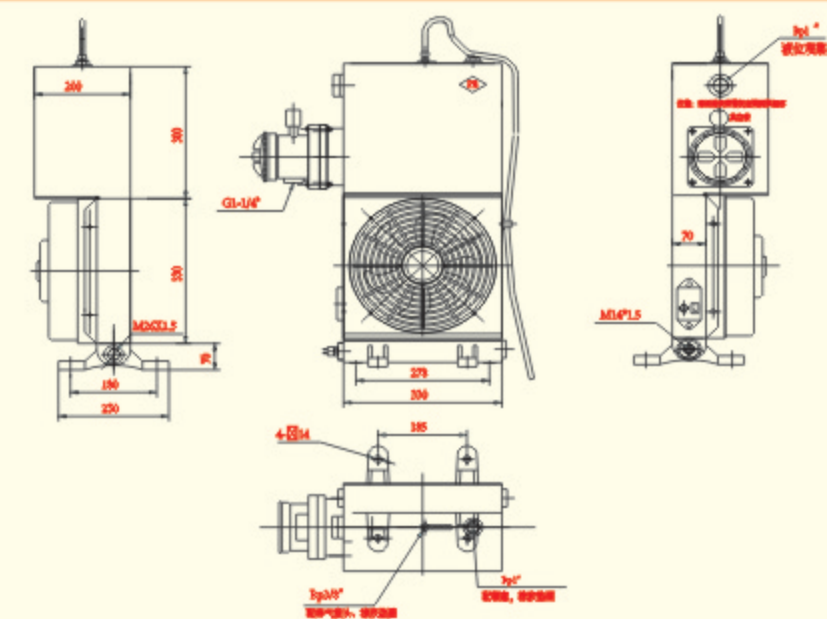
The thermal switch is not mounted on the cooler, when use, take off the bolts on the cooler, and connect M14×1.5 tap to the cooler, with a seal ring make sure no leakage and tight.

Note: When revolving the switch, the max Torque must be less than 20Nm, It is not in the quality assurance Area if the switch is destroyed by the torque.

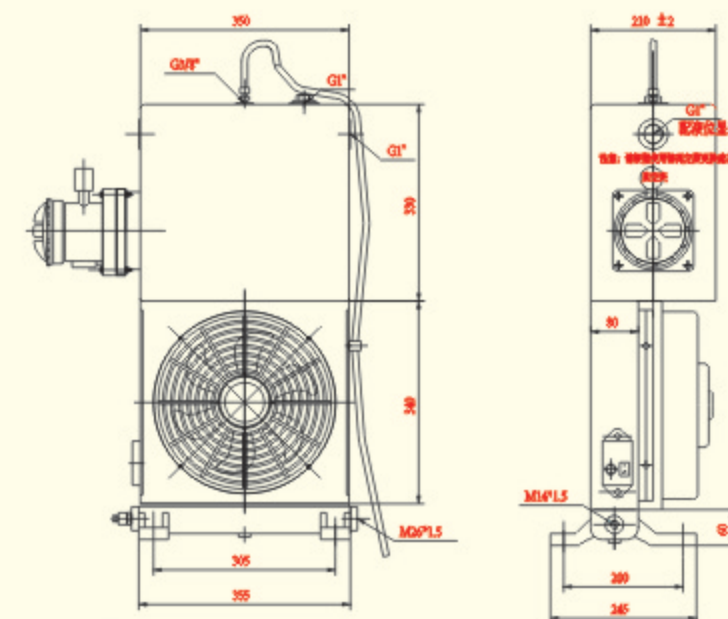
To avoid the heat and protect the thermal switch, It's better to use a relay. The way to use the switch please refer to the principle drawing.

6. The filter

The filter is connected with oil cooler through the flange, It is a oil-absorbing filter, After assembly, the filter was completely immersed in the oil except the lid. The filter core can be changed by the lid and when the filter core changed, the filter can stop the oil route away automatically. So it won't need to empty the oil in the system. The filter have a vacuum instrument which is used to show the contaminative degree of the hydraulic oil.



18L搅拌车



25L搅拌车

汽车用中冷器系列 Middle cooler for automobile series

中冷器主要用于冷却涡轮增压以后的压缩空气，以提高空气中的含氧量，从而提高发动机功率

Cooler for cooling the main turbo after the compressed air, to increase the oxygen content of the air, thereby increasing the engine power



工程机械系列

The series of engineering machinery



用于挖掘机、振动式压路机、汽车起重机、钻井机等工程机械液压、油压、水冷、中冷等系统的组合冷却器。

Combination cooler for engineering machinery, such as excavator, vibratile roller, car-lifter & drillrig



膨胀水箱
Expansion water tank

压缩机系列

Compressor series



我公司生产的压缩机系列从1m³~40m³上使用的散热器产品都有详细规格。

My company's compressor series from 1m³~40m³ radiator products have detailed specifications.