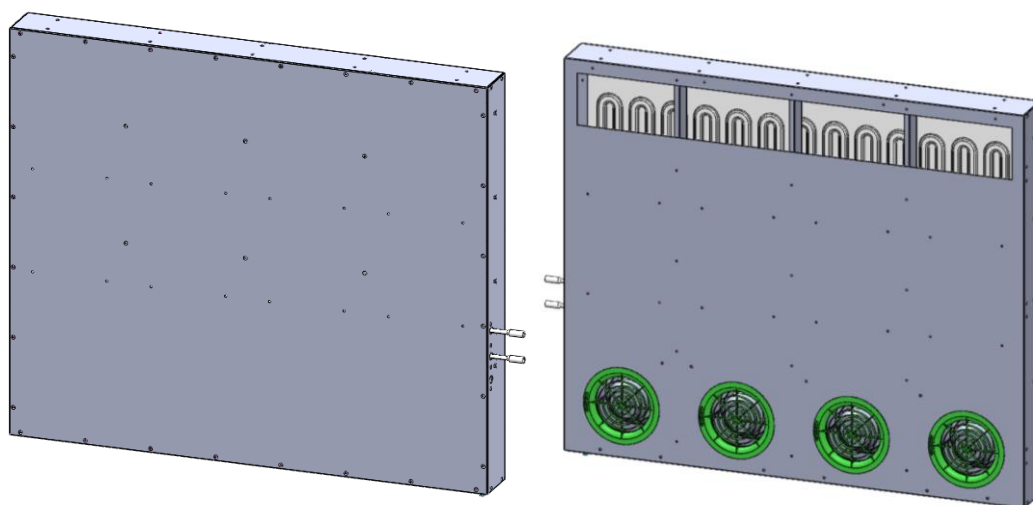


用户手册  
User Manual

液冷热交换器

Liquid cooling heat exchanger



在产品安装使用前请仔细阅读本手册！  
Reading this manual carefully before installation and using!

## 前言 Foreword

本手册介绍了液冷热交换器的使用须知、产品接线、操作指导、日常维护等信息。

本手册主要用来指导用户进行安装，维护本换热器产品。

针对本系列产品的任何操作必须由专业的技术人员根据本手册的要求进行。

The manual describes the liquid cooling heat exchanger instructions, wiring, operating instructions.

The manual is mainly used to guide users to install and maintain the liquid cooling heat exchanger.

For the series of products of any operation must be made by the professional technicians according to the requirements of the manual.

## 变更记录 **Change History**

版本//Version	文件历史 // Change History	日期 // Date
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## **声明 Declaration**

### **RoHS Compliance Declaration of Cabinet AC liquid cooling heat exchanger**

#### **European Guidelines 2011/65/EC (RoHS)**

Legal regulation for Substances

Dear Sir/Madam,

Referring to the European guideline of 2011/65/EC, we confirmed that according to the current status of our knowledge and in accordance with the regulations, we could produce products complying with above mentioned guidelines especially for below type:

TE 350/S/A

Yours sincerely

Engineering Department



# Declaration of Conformity

**Suzhou Quick Thermal Control Co. Ltd**

No.15. xiangpu Rd.Industrial district. Suzhou. P.R.China.

Tel.: 0086 512 65335116; // Email: [sale@topquickcooling.com](mailto:sale@topquickcooling.com)

We here with declare the following products:

Product Name: TE350/S/A

series products is in conformity with the following directives:

2006/ 42 / EC	Machine Directive	EN ISO 12100
2006 / 95 / EC	Low Voltage Directive	EN 60 335-1:2012
2004 / 108 / EC	EMC-Directive	EN 60 335-2-40
2009/ 105 / EC	Simple Pressure Vessels	EN 61000-6-1:2007
97/23/EEC	The Pressure Equipment Directive, article3 Paragraph 3.	EN 61000-6-4, Emission
	The Pressure Equipment Directive,category1	
	The Pressure Equipment Directive,category2	

and was manufactured in conformity with the following harmonised standard:

furthermore manufactured in conformity with the following disharmonised standard:

2011/65/EC	RoHS Directive
2002/96/EC	Waste of Electrical and Electronic Equipment (WEEE)

and furthermore, declares that it is not allowed to put the machinery into service until the machinery into which it is to be incorporated or of which it is to be a component has been found and declared to be in conformity with the provisions of above-mentioned Directives and with national implementing legislation i.e., as a whole, including the machinery referred to this declaration.

# 1. 简介 Brief Introduction

## 1.1 产品描述 Product description

该产品是针对工业设备应用场合而设计的液冷热交换器，适用于机柜内部设备发热量大、温度敏感，且内外完全隔离的应用场合。

电网适用范围：交流  $220\text{VAC} \pm 15\%$  50Hz/60Hz

其他电源制式请参考铭牌。

This product is designed for industrial equipment applications of high-performance, cabinet internal devices suitable for heat, temperature sensitive, and inside and outside completely isolated applications.

Grid application scope: AC  $220\text{VAC} \pm 15\%$  50Hz/60Hz

Other power supply system, please refer to the nameplate.

1.3 符合标准 **Conform to the standard**

Standard	Description
GB/T 17626.7-1998	Electromagnetic compatibility(EMC)
GB4706.1	Safety household and similar electrical appliance
GB4798.1	Environmental conditions existing in the application of electric and electronic products - storage
GB4798.2	Environmental conditions existing in the application of electric and electronic products - transport
GB4798.3	Environmental conditions existing in the application of electric and electronic products - use
CE	The third party certification

2. 包装与运输 **Packing and Shipping**

- 液冷热交换器采用纸箱包装，附件等资料也放置于包装箱内。  
Liquid cooling heat exchangerpacked in paper cases, the package includes Annex.
- 液冷热交换器在运输时请注意以下事项：  
The liquid cooling heat exchangerduring the transportation, please pay attention to the following matters:

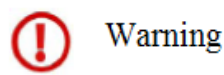
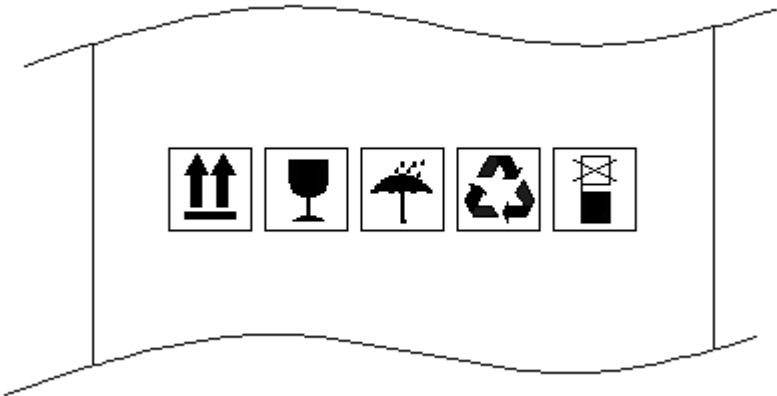


图 2-1 包装箱标识  
Figure2-1 Packing mark





- 液冷热交换器为精密仪器，在搬运或者运输过程中，应小心轻放，包装箱上禁止踩踏，禁止站立或放置其他重物。

Liquid cooling heat exchanger is precision instrument, in handling or transport process, should be handled with care, package boxes do not step, prohibit standing or placing other heavy objects.

- 搬运或运输过程中，注意防潮、防水、防雨。

During Handling or transporting, pay attention to moisture, water, rain.

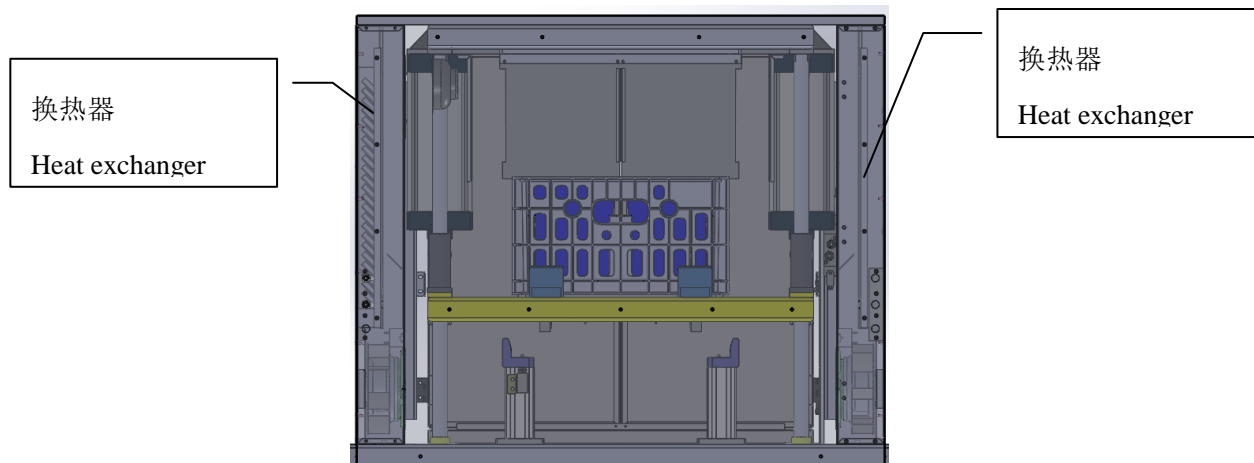
## 3. 安装 Installation

### 3.1 安装前准备 Before Installation

安装前至少需准备以下工具：十字螺丝刀、一字螺丝刀、密封条、老虎钳。

You have to prepare the following tools before installation: cross screwdriver, slot type screwdriver, sealing strip, vice.

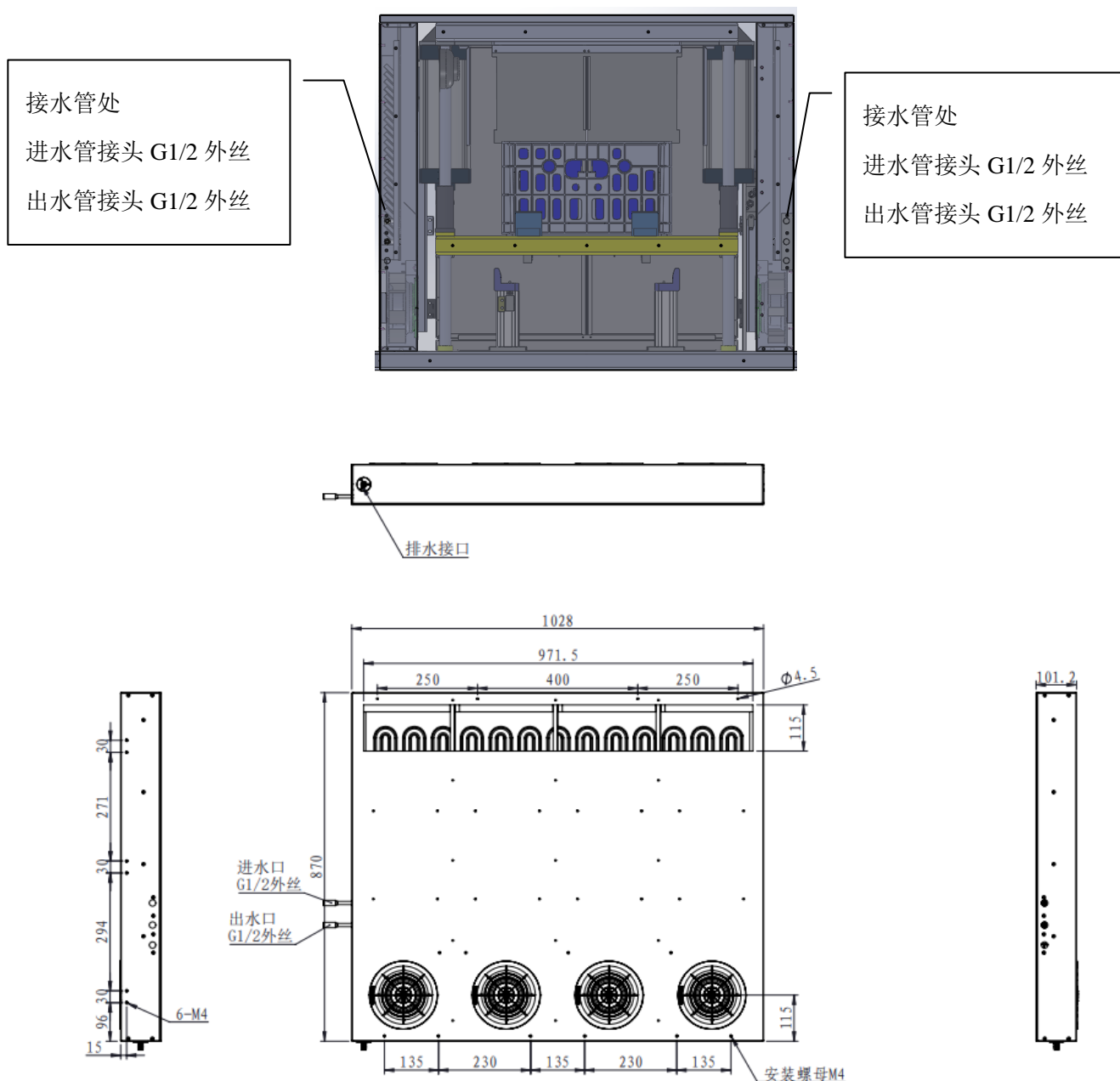
### 3.2 安装示意 Schematic of Installation



### 3.3 液冷热交换器安装 Liquid cooling heat exchanger Installation

➤ 安装步骤:

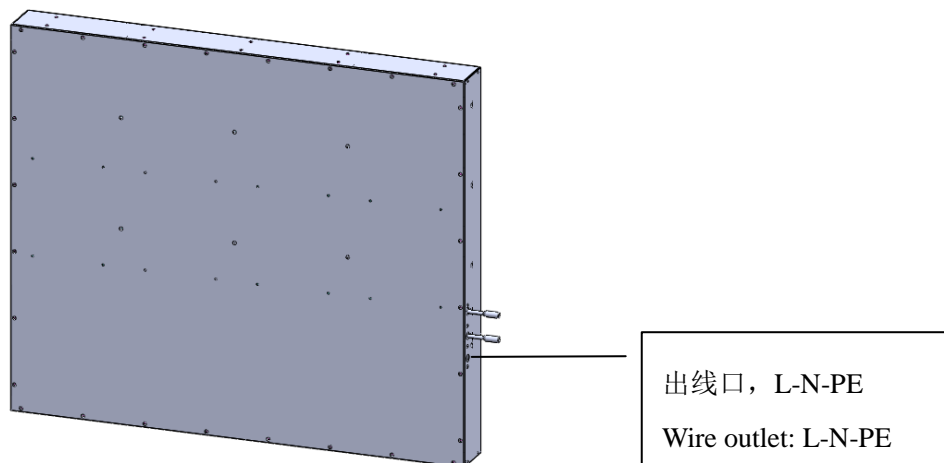
1. 根据图示将热交换器安装在需要冷却的设备柜上,并连接上冷水管
2. 根据接线示意图要求接线;
3. 如果需要安装排水水管, 请将排水水管安装在底部接水管处。



- Installation steps:
  1. According to installation figure, installed the liquid cooling heat exchanger on the cabinet, and connect the cold water pipe to the heat exchanger.
  2. According to the electrical wire figure, connect the wires to liquid cooling heat exchanger.
  3. Please to install drain pipe on drain hole if you need.
- 安装完成后的确认检验项:
  1. 请勿在高油污、易燃气体、高腐蚀性使用该产品;
  2. 确保产品安装后倾斜度不大于 3°;
  3. 确保控制柜密封良好以免漏入空气产生不必要的冷量损失和产生过多的冷凝水;
- Double check lists after Installation:
  1. Don't apply this unit in high oil, burning gas, explosive gas, strong corrosively condition, and the humidity not higher than 95%;
  2. Make sure that the lean of the product no more than 3°;
  3. Make sure that the cabinet should be sealed well to avoid the cooling losing and avoid ambient moisture penetrate into cabinet, this will avoid produce more condensate water;

### 3.4 电气布线 Electrical Wiring

液冷热交换器在使用前需根据本手册的说明进行电气连接，建议客户优先使用附件中的线缆。客户可以自备线缆，如果客户不能确定所选电缆规格是否合适，可联系售后服务部门。



Does Electrical Wiring according to the manual before use the heat exchanger; we suggested preferring to use cables in the attachments. You should call the After-sale Service Department of QUICK, if you cannot sure the cable specification be made by your-self.

## 4. 运行逻辑 Operation Logic

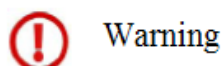
### 4.1 开机运行 Running

接线完成并确认接线正确后，此时可接通交流电源使液冷热交换器首次上电运行。

液冷热交换器上电后，直接全速运行。

Completed and confirmed the wiring correct, then you can connect to the AC power to liquid cooling heat exchanger for the first time to run on electricity.

After power on liquid cooling heat exchanger, it will be operated at full speed.



#### Warning

液冷热交换器上电运行过程中，若发生异常噪音、震动，请立即切断电源，并通知专业人士进行检查。

When the liquid cooling heat exchanger is running, if there is abnormal noise, vibration, please cut off power immediately and notify the professionals to inspect.

## 5. 产品质保 Warranty

### ➤ 保修期 Warranty Period

产品质保 12 个月（从产品开始运行时起），或最大 18 个月（从产品发货日时起），与公司另有协议的以协议为准。

The product guarantee period is **12 months** from product up-running time or Max. **18 month** from product delivery date, or depends on agreement with the company.

### ➤ 质保范围 Warranty Coverage

本产品 在保修期内，凡属于产品本身质量问题而导致故障的，本公司将为您免费维修，客户报修时需提供产品标号。但是由以下任何原因造成的故障不属于我司的保修范围。

- 1) 已超过保修期的；
- 2) 不能提供产品出厂编号的（见机身贴示的铭牌）；
- 3) 由于在异常条件或环境中运行，或者用非本使用说明书中指定的不恰当安装方式安装、维护或操作导致的故障；
- 4) 非本设备造成的故障，比如由用户的设备、用户的软件等造成的故障；
- 5) 用户自行更换或拆装产品零部件造成损坏的，或由非授权维修服务者拆修而造成损坏的；
- 6) 诸如火灾、地震、洪水等不可抗力而造成损坏的故障。

During the warranty period, all belong to the product itself quality problems caused by fault, the company will be free for you to repair; Household repair is required to provide the product label. But by any of the following causes the failure does not belong to our warranty.

- 1) Out of the Warranty period

- 2) Cannot provide the product label(the product label is on the nameplate);
- 3) Because of the abnormal condition or environment ,or the instructions specified in the inappropriate installation, maintenance or operation causes the fault;
- 4) Not caused by equipment failure, caused by user's other equipment or software.
- 5) User changed or disassembles by their-selves, or maintained by the person without authorization.
- 6) Caused by force majored such as fires, earthquakes, floods and other damage to the fault.

➤ **免责声明 Disclaim**

我司的保修仅限于已发送的产品。我司对可能由设备故障衍生的任何损失不负责任。

The warranty is for the delivered products.

Irresponsible is for any loss that may be caused by equipment failure.

## 6. 回收处理 Reclaim



到本产品使用期限或不再使用该产品时，请勿将本产品直接作为垃圾处理，请交给当地政府认可的废物收集中心进行处理。

At the end of the unit working life, the produce must not be disposed of as urban waste; it must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service.



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