



HEATING AND COOLING  
HIGH-PRECISION INTELLIGENT  
**TEMPERATURE CONTROL SOLUTIONS**  
PROFESSIONAL MANUFACTURER

# NANJING XINGDE MACHINERY

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Industry Heating / Refrigeration Equipment Production Factory Needle Specialist



## ABOUT US

Nanjing Xingde Machinery Co., Ltd. is one of the professional mold temperature controller and industrial Chiller Manufacture. Which is one of the earliest factories that focus on the industrial fluid temperature controller equipment in China. Xingde machinery engaged in the development, design, manufacture, sales and after service of temperature control equipment.

**Main products:** Mold Temperature Controller, Electric Heating Thermal Oil Boilers, TCU Temperature Controller Machine, Industry Water chiller, High-Low Temperature Integrated Hot and Cold Machine

The company has successively obtained ISO9001 certification, CE certification, National High-Tech Enterprise certification, 3A credit certification, and Safety Production Standardization certification; more than 10 software copyrights, more than 20 patents, and 2 first-class intellectual property rights.

The company's products are primarily applied in the following fields: new materials (composite materials) molding, chemical and pharmaceutical/polymer industries, aerospace, scientific research and experimentation, the lithium battery new energy sector, wind turbine blades, solar cell modules, automotive component molding, roller temperature control, magnesium and aluminum alloys, die-casting molding, rubber machinery temperature control, injection molding, textile printing, and light guide plates, among others.

**Company Vision:** To become the top brand in the industrial temperature control equipment industry nationwide.

**Company Mission:** To create first-class products with core technology and provide the best service to customers. To pursue the happiness of all employees in both material and spiritual aspects and create value for society.



## CASE IMAGE



## PRODUCT INTRODUCTION

### Electric Heating Thermal Oil Boilers

The equipment uses electricity as the heat source, thermal oil as the heat carrier, and utilizes a high-temperature circulating pump for forced circulation to meet the heating and temperature control requirements of the process.

#### Product Features:

1. Temperature Range: 50°C-300°C;
2. Power Range : 100KW-1200KW;
3. Control Method: PC board micro-controller, PLC touch screen controls, Temperature control meter. Temperature control accuracy:  $\pm 1^{\circ}\text{C}$ ;
4. Safety Features: high and low voltage protection, phase sequence protection, low flow protection, low liquid level protection, over-temperature protection, and other safety measures;
5. Application Industries: chemical industry, synthetic fiber industry, plastics and rubber industry, metallurgy, mechanical processing, and foundry industry, among others;
6. Special Features: Remote communication capabilities (TCP/RTU), phased temperature control, timed power on/off functionality, explosion-proof design, and other customizable features.



### Explosion-proof Mold Temperature Controller

The explosion-proof mold temperature controller is specifically designed for explosion-proof requirements and is suitable for gas and dust explosion-proof environments in Zone 01, Zone 02, Zone 21, and Zone 22. It can be configured with explosion-proof levels of BT4/CT4 to ensure production safety. This equipment is commonly used in industries such as chemical and lithium battery manufacturing that require special safety measures.



## PRODUCT INTRODUCTION

### Water Mold Temperature Controller Machine

The water temperature controller machine uses water as a heat-conducting medium and automatically adjusts the temperature through PID control. Due to water's higher specific heat capacity compared to oil, the water temperature machine offers superior heat conduction efficiency under the same temperature regulation conditions. Additionally, it is user-friendly, clean, and pollution-free.

#### **Product Features:**

1. Temperature Range: 50°C-180°C;
2. Power Range: 6KW-96KW;
3. Control Method: PC board micro-controller, PLC touch screen controls, Temperature control meter. Temperature control accuracy:  $\pm 0.5^{\circ}\text{C}$ ;
4. Safety Features: high and low voltage protection, phase sequence protection, Pump Overload Protection, Medium Impurity Filtration Protection, explosion-proof design;
5. Application Industries: Plastic industry, rubber industry, roller temperature control, composite materials industry, automotive industry, food and pharmaceutical industry, etc;
6. Special Features: Remote communication function (TCP/RTU), blowback water return function, timed startup and shutdown function, and other customized functions.



### Oil Mold Temperature Controller

The oil Mold temperature controller uses thermal oil as the medium. It precisely controls the temperature and is easy to operate.

#### **Product Features:**

1. Temperature Range: 50°C-390°C;
2. Power Range: 6KW-96KW;
3. Control Method: PC board micro-controller, PLC touch screen controls, Temperature control meter. Temperature control accuracy:  $\pm 0.5^{\circ}\text{C}$ ;
4. Safety Features: high and low voltage protection, phase sequence protection, Pump Overload Protection, Temperature Overheat Protection, Emergency Stop Switch;
5. Application Industries: Chemical industry, synthetic fiber industry, plastics, automotive component molding, roller temperature control, magnesium aluminum alloys, die-casting molding, etc;
6. Special Features: High Precision  $\pm 0.5$  Temperature Control Function, Remote communication function (TCP/RTU), Air Blowback Oil Return Function, phased temperature control, timed power on/off functionality, explosion-proof design, and other customized functions.



## PRODUCT INTRODUCTION

### TCU Temperature Controller Machine

Temperature Control Unit, allows customers to provide their own heat/cool sources. It achieves stable temperature control for equipment or processes through heat exchange.

#### Product Features:

1. Temperature Range: Determined based on the heat/cool sources provided by the customer;
2. Control Method: PLC touch screen controls, Temperature control accuracy:  $\pm 0.5^{\circ}\text{C}$ ;
3. Safety Features: high and low voltage protection, phase sequence protection, Pump Overload Protection, Temperature Overheat Protection, Emergency Stop Switch;
4. Application Industries: Chemical industry, synthetic fiber industry, plastics, pharmaceutical industry, food industry, etc;
5. Special Features: Remote communication function (TCP/RTU), Explosion-proof design, and other customized functions. Material Temperature Control, etc.



### Combined Heating and Cooling Machine

The combined heating and cooling unit integrates both refrigeration and heating functions, delivering hot or cold media on demand for rapid and precise temperature control. It is widely used in industries such as chemical and pharmaceutical, where stringent temperature requirements are critical. With the ability to switch operating modes at the push of a button, it quickly achieves heating or cooling, providing a stable temperature environment for industrial production.

#### Product Features:

1. Temperature Range:  $-50^{\circ}\text{C}$  -  $300^{\circ}\text{C}$ ;
2. Power Range: Heating Power 6KW-96KW, Cooling Power 3KW-200KW;
3. Control Method: PC board micro-controller, PLC touch screen controls, Temperature control meter. Temperature control accuracy:  $\pm 0.5^{\circ}\text{C}$ ;
4. Safety Features: high and low voltage protection, phase sequence protection, Overload Protection, Medium Liquid Level Monitoring, etc;
5. Application Industries: Chemical industry, synthetic fiber industry, aerospace sector, scientific research and experimentation, lithium battery and new energy industry, etc;
6. Special Features: Remote communication function (TCP/RTU), Explosion-proof design, and other customized functions. Material Temperature Control, etc.



## PRODUCT INTRODUCTION

### Water Chiller

Water chiller integrates a refrigeration system, water tank, and water pump into a compact unit, making it easy to install and highly efficient in cooling. It cools the circulating water to the set low temperature through the refrigeration system, providing a stable source of low-temperature water for industrial equipment.

#### **Product Features:**

1. Temperature Range: -40°C-35°C;
2. Power Range :Cooling power 3KW-200KW;
3. Control Method:PC board micro-controller, PLC touch screen controls, Temperature control meter;
4. Safety Features:high and low voltage protection, phase sequence protection, Overload Protection, Medium Liquid Level Monitoring, etc;
5. Application Industries: Chemical industry, synthetic fiber industry, aerospace sector, scientific research and experimentation, lithium battery and new energy industry, etc;
6. Special Features:Remote communication function (TCP/RTU), Explosion-proof design.



### Screw Water chiller

The screw chiller, with a screw compressor at its core, offers high cooling capacity and stable operation. It is widely used in large-scale buildings, industrial production, and other fields, providing efficient temperature control.

#### **Product Features:**





1. Temperature Range:-80°C-35°C;
2. Power Range:Cooling Power 100KW-1500KW;
3. Control Method:PC board micro-controller, PLC touch screen controls, Temperature control meter;
4. Safety Features:high and low voltage protection, phase sequence protection, Overload Protection, Medium Liquid Level Monitoring, etc;
5. Application Industries: Industrial refrigeration, central air conditioning systems, data centers, shipbuilding industry, etc;
6. Special Features:Remote communication function (TCP/RTU), Explosion-proof design.





- Build First-class Products With Core Technologies
- Provide Better Service To Customers



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