

RVTH

MECHANICAL & ELECTRICAL INTEGRATED SOLUTIONS SMART TOUCH THERMOSTAT

RVTH007

The RVTH007 Series Intelligent Touch Thermostat features a sleek, internationally inspired design that blends seamlessly into a wide range of interiors. Its clean and elegant appearance makes it suitable for diverse environments and user profiles.

Equipped with an ultra-sensitive touch interface, the RVTH007 Series delivers a smooth, intuitive control experience. The advanced functionality, combined with its refined aesthetics, enhances comfort and convenience, bringing a new level of sophistication to modern living and working spaces.



FEATURES



WIFI & RS485 DUAL COMMUNICATION



TECHNICAL SPECIFICATION

| | |
|-----------------------|--------------------|
| Temperature Sensor: | Temperature Sensor |
| Temperature accuracy: | ±1°C |
| Display accuracy: | 0.1°C |
| Temperature setting: | 5~35°C |
| Crystal: | LCD screen |
| Key: | Touch key |

| | |
|-----------------------|----------------------------|
| Power consumption: | <3W |
| Working Environment: | Temperature 0~50°C |
| Humidity | 5~95% RH (no condensation) |
| Power supply voltage: | AC220~250V ≤10%,50/60Hz |
| Shell Material: | PC+ABS flame retardant |
| Overall Dimension: | 86x86x12mm (WxHxT) |

RVTH008

RVTH008 Thermostat features a minimalist, modern design complemented by an intuitive interactive interface for effortless operation. Its precise temperature control ensures consistent comfort, while optional underfloor heating linkage adds versatility for a wide range of applications.

Designed to meet diverse environmental and user requirements, the RVTH008 Series offers a rich set of functions and customization options. Available in both black and white finishes, it seamlessly adapts to various interior styles and scene preferences.



RVTH009

RVTH009 Thermostat features a large full-mirror LCD display designed for clear visibility and modern aesthetics. It supports 3-speed and 0–10V DC brushless fan coil control, providing precise and efficient environment management.

With an integrated RS485 communication interface, the RVTH009 Series enables remote, centralized monitoring and control—making it ideal for intelligent building systems.

Engineered for versatility, it is well-suited for office buildings, apartments, hotels, renovation projects, and other commercial or residential applications requiring reliable and smart temperature control.



RVTH100

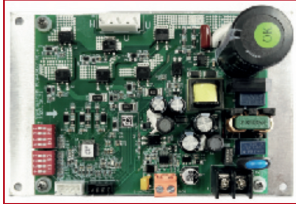
RVTH100 Thermostat is designed for precise control of central air-conditioning fan coil units or air-duct systems, enabling automatic indoor temperature regulation with high accuracy and reliability.

With an ultra-slim profile of just 7 mm, the TC90 features a clean, modern button layout positioned on the right side for smooth and intuitive operation. Available in both black and white finishes, it can be customized to complement various interior design styles.

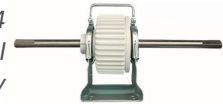
Crafted from safe, high-quality materials, the TC90 Series offers a premium appearance, user-friendly operation, responsive sensing technology, and precise control—making it an ideal choice for contemporary residential and commercial spaces.



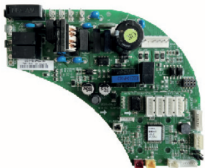
BLDC FAN COIL CONTROLLER



- The motor adopts a fully enclosed plastic-sealed structure with an upgraded IP44 protection rating. Its efficiency is significantly improved, offering substantial advantages in all aspects including performance, noise reduction, and energy savings.
- Both single and dual motor drive boards adopt the FOC algorithm and can receive 0-10V or three-speed control signals. They feature automatic cooling-mode compensation and allow DIP switch configuration to meet different static pressure requirements. The system can control constant air volume or constant speed DC brushless motors to achieve stepless speed regulation.



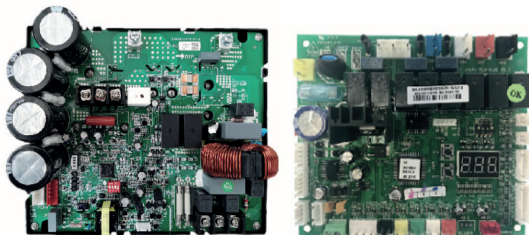
WATER MEDIA DC CARD MACHINE CONTROLLER



- Compared with traditional AC motors, DC brushless motors allow stepless air volume adjustment and offer significant advantages in efficiency, noise reduction, and energy savings.
- Suitable for two-pipe and four-pipe ceiling-mounted DC cassette units, the DC fan supports stepless speed regulation and offers both valve and non-valve model options. Features include stepper-motor swing control, water-level detection with forced drainage via condensate pump, standby antifreeze protection, master-slave group control, and Modbus centralized control. It supports flexible control through infrared remote control or wired controller.

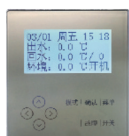
COMMERCIAL CENTRAL AIR CONDITIONING SYSTEM SOLUTION

LOW TEMPERATURE AIR-COOLED HEAT PUMP INVERTER CONTROLLER



| | |
|----------------------------|---------|
| Digital output (DO) | 8-Way |
| Digital input (DI) | 7-Way |
| Analog input (AI) | 9-Way |
| Electronic Expansion Valve | 2-Way |
| Pressure sensors | 2-Way |
| Communication port | RS485*2 |

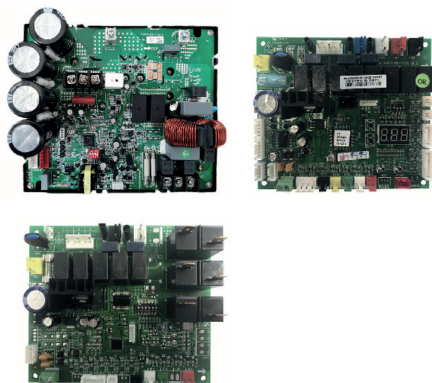
FEATURES



Designed for 3–10 HP inverter low-temperature enthalpy-boost heat pump units, this solution is compatible with a wide range of DC compressors available on the market. It supports flexible modular combinations of 1 to 8 units, features EXV throttling and EVI enthalpy enhancement, and allows free configuration of single or dual DC condenser fans. Modbus centralized control protocol is supported.

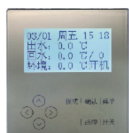
It can be paired with an LCD dot-matrix display with capacitive touch keys, or an optional 4-inch color touch screen for more intuitive operation.

AIR-COOLED INVERTER CHILLER/HEAT PUMP 3 IN 1 INTEGRATED UNIT CONTROLLER



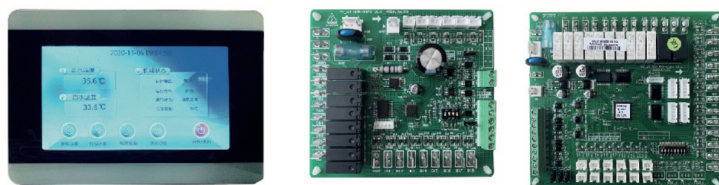
| | Indoor Unit | Outdoor Unit |
|----------------------------|-------------|--------------|
| Digital output (DO) | 9-Way | 8-Way |
| Digital input (DI) | 4-Way | 7-Way |
| Analog input (AI) | 7-Way | 9-Way |
| Electronic Expansion Valve | / | 2-Way |
| Pressure sensors | / | 2-Way |
| Communication port | RS485*2 | RS485*2 |

FEATURES



This solution is suitable for low-temperature air-source heat pump systems that integrate air conditioning, floor heating, solar heating, boilers, and domestic hot water. The main control is divided into indoor and outdoor units, with a split driver design. The wired controller can be equipped with an LCD text display for enhanced industrial-grade reliability, or an optional 4-inch color touch screen for more intuitive operation.

LOW-TEMPERATURE EVI AIR-COOLED CABINET UNIT CONTROLLER



| | Indoor Unit | Outdoor Unit |
|----------------------------|-------------|--------------|
| Digital output (DO) | 8-Way | 12-Way |
| Digital input (DI) | 8-Way | 12-Way |
| Analog input (AI) | 6-Way | 12-Way |
| Electronic Expansion Valve | / | 4-Way |
| Pressure sensors | / | 4-Way |
| Communication port | RS485*2 | RS485*3 |

FEATURES



Suitable for split indoor-outdoor direct expansion systems with 1-4 circuits and fixed-frequency operation. The condenser can share airflow or operate with independent fans and supports 0-10V condenser speed control. Features include EXV throttling, EVI enthalpy enhancement, and optional single-speed or three-speed supply fans. Standard Modbus centralized control protocol is supported.

Available with three types of touch-screen displays:

- 86×86 mm LCD display with a neutral design for wall-mounted installation
- Embedded LCD dot-matrix display with Chinese/English language switching
- 7-inch touch screen model powered by DC 12V, equipped with dual RS485 communication ports, and featuring a 1024×600 HD display

LOW-TEMPERATURE EVI AIR-COOLED CHILLED/HOT WATER MODULAR UNIT CONTROLLER



| | |
|----------------------------|---------|
| Digital output (DO) | 16-Way |
| Digital input (DI) | 16-Way |
| Analog input (AI) | 12-Way |
| Electronic Expansion Valve | 4-Way |
| Pressure sensors | 2-Way |
| Communication port | RS485*2 |

FEATURES

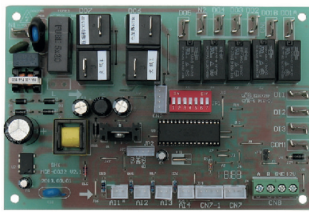


Low-temperature air-cooled modular units support free combination of 1 to 16 modules, with each unit allowing 1-4 system configurations. EXV, EVI control NTC, pressure sensor, compressor current transformer are optional

Available with two types of displays:

- LCD dot-matrix screen with capacitive touch keys and Chinese/English language switching
- 7-inch touch screen powered by DC 12V, featuring dual RS485 communication ports, Chinese/English switching, and a 1024×600 HD display

AIR-COOLED / WATER-COOLED (HEAT PUMP) COMBO CONTROLLER



| | |
|---------------------|---------------|
| Digital output (DO) | 7-Way |
| Digital input (DI) | 3-Way |
| Analog input (AI) | 4-Way |
| Communication port | RS485*1 TTL*1 |

FEATURES

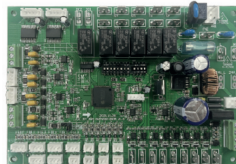
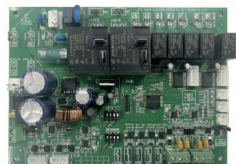


Air-source/water-source cooling and heating air system controller, supporting standard operation mode, fresh-air operation mode, and optional configurations including heat pump, cooling-only, or cooling + electric heating models.



Equipped with an 86×86 mm wall-mounted display panel featuring DC 12V power supply, RS485 communication, capacitive touch keys, and a neutral interface design for simple, user-friendly operation.

INVERTER DIRECT EXPANSION (DX) UNIT CONTROLLER



| | Indoor Unit | Outdoor Unit |
|----------------------------|-------------|--------------|
| Digital output (DO) | 7-Way | 6-Way |
| Digital input (DI) | 4-Way | 8-Way |
| Analog output (AO) | 1-Way | 2-Way |
| Analog input (AI) | 3-Way | 9-Way |
| Electronic Expansion Valve | 2-Way | / |
| Pressure sensors | / | 6-Way |
| Communication port | RS485*2 | RS485*4 |

FEATURES

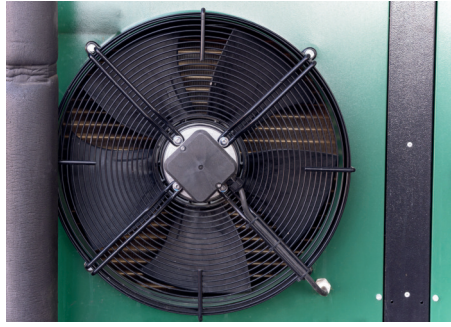
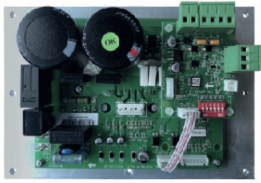


Split-type indoor-outdoor dual-system direct expansion (DX) units. Supports dual inverter compressors, fixed-speed + inverter compressor combinations, dual DC condenser fans, dual AC condenser fans, two-stage electric heating, dual EXV throttling, DC variable-speed indoor blowers, and AC single-speed/three-speed indoor blowers.



All system configurations can be freely matched through indoor/outdoor DIP switch settings. Module-combination functionality and OTA remote management capability are reserved.

FAN DRIVER BOARD CONTROLLER



FEATURES

The fan driver uses a sensorless FOC (Field-Oriented Control) algorithm to drive the motor and adopts a discrete-component hardware design. It includes PFC and power filtering. Motor control options include 0–10V (reserved), three-speed control, or RS-485 communication.

SPECIALTY AIR CONDITIONING SYSTEM SOLUTIONS

INVERTER RV AIR CONDITIONER CONTROLLER



| | |
|----------------------------|--|
| Digital output (DO) | 7-Way |
| Digital input (DI) | 5-Way |
| Analog input (AI) | 7-Way |
| Electronic Expansion Valve | 2-Way |
| Communication port | RS485*3 |
| Driver Characteristics | Supports independent control of up to two built-in drive BLDCs |

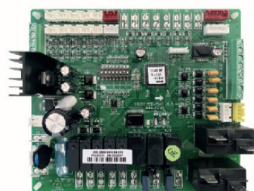
FEATURES



Integrated drive-control solution (1–3 HP) for full-DC inverter RV air conditioners. Compatible with multiple compressor brands, including Mitsubishi, Panasonic, and Highly. Supports two built-in BLDC fan drivers, EXV control, and optional NTC and pressure sensors. Single-phase power supply: 180–265V.

Features a neutral LED display module, capacitive touch keys, Fahrenheit temperature display via remote control, and supports the following communication protocols: CANbus / Cibus / Modbus.

DC INVERTER COLD CHAIN CONTROLLER



| | |
|---------------------|---------|
| Digital output (DO) | 10-Way |
| Digital input (DI) | 7-Way |
| Analog output (AO) | 2-Way |
| Analog input (AI) | 10-Way |
| Pressure sensors | 2-Way |
| Communication port | RS485*3 |

FEATURES

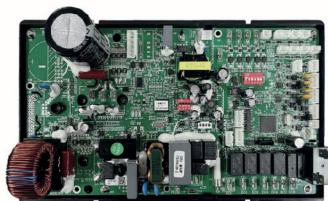


Uses a DC inverter compressor and DC EC condenser fan, with separate EXVs for the refrigeration chamber and the freezer chamber. Equipped with high- and low-pressure sensors. By switching the solenoid valves of the refrigeration and freezer compartments, the system can operate in dual-zone control or single-zone control modes.



Features a touchscreen color display and a remote monitoring port for viewing all unit data. Supports standard Modbus protocol

INVERTER DEHUMIDIFIER CONTROLLER



| | |
|----------------------------|--|
| Digital output (DO) | 7-Way |
| Digital input (DI) | 5-Way |
| Analog input (AI) | 7-Way |
| Electronic Expansion Valve | 2-Way |
| Communication port | RS485*3 |
| Driver Characteristics | Supports independent control of up to two built-in drive BLDCs |

FEATURES

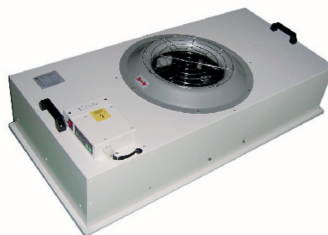


Integrated drive-control DC inverter dehumidifier (1–3 HP), compatible with multiple brands of DC compressors. Equipped with two built-in BLDC fan drivers, allowing flexible selection of AC or DC fans. EXV throttling functionality is reserved. Single-phase power supply: 180–265V.



Features an LED display module, capacitive touch keys, and supports Modbus communication protocol.

HIGH-EFFICIENCY FILTER FAN CONTROLLER



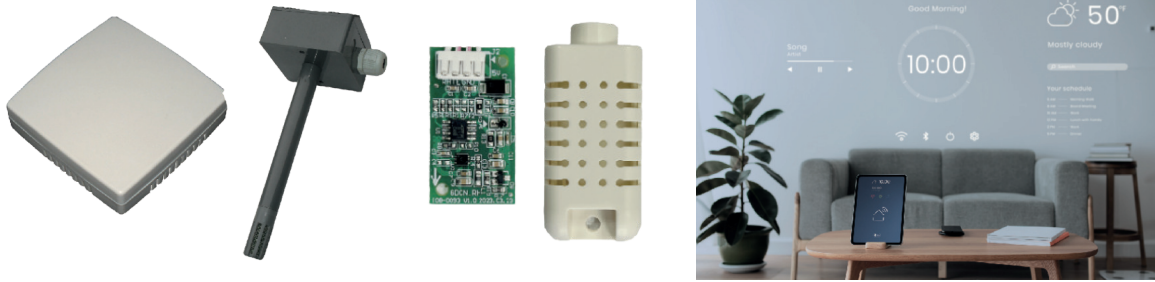
FEATURES

The controller is used in high-cleanliness environments such as purification workshops and cleanrooms, installed on high-efficiency filter fans. It uses a brushless DC motor with sensorless (no-Hall) feedback. PWM output control enables high-precision variable-frequency speed regulation of the fan, with stepless speed adjustment from 300 to 1500 r/min.

It includes multiple protection functions such as over-voltage, under-voltage, over-current, and PWM module over-temperature protection.

Through the RS-485 communication interface, different addresses can be assigned, enabling zoned control of tens of thousands of FFUs and allowing users to easily build networked systems.

TEMPERATURE AND HUMIDITY SENSOR



FEATURES

Designed for residential or commercial environments requiring temperature and humidity measurement.

Temperature measurement range: -20°C to 60°C , accuracy $\pm 0.1^{\circ}\text{C}$.

Humidity measurement range: 0%–100% RH (non-condensing), accuracy $\pm 3\%$ RH.

Transmits temperature and humidity signals via TTL or RS485 communication, using either the Three-Wire Protocol or Modbus protocol.

Different addresses (1–16) can be configured as needed for networked control.