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World's Most Comprehensive Fan Solutions



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Turn to Experts - HVAC&R

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CE RoHS BSCI ISO EAC UL LVD

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LONGWELL TECHNOLOGY

The Ventilation and Drive Technology Partner for Mission-Critical Environments



Professional Manufacturer of HVACR Fan & Motors

—— Temperature Controller

Longwell Group
Longwell-China
Longwell-USA
Longwell-Russia
Longwell-Europe

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About Longwell

The Ventilation and Drive Technology Partner for Mission-Critical Environments

OEM for Well-Known Brands | **Supplies Fortune 500 Companies** | **Global Technical Support**

LONGWELL is a leading fan manufacturer, specializing in high-quality fans, blowers, motors, and components for heating, ventilation, air conditioning, and refrigeration applications. We have a strong presence in delivery capabilities, design and R&D capabilities, as well as manufacturing, placing us at the forefront of the industry.

Our product range includes EC/DC/AC centrifugal fans, axial fans, AC/BLDC cross-flow fans, single/double forward curved fans, AC/BLDC/ECM motors, and industrial fan blowers. Since our establishment in 1990, we have continuously upgraded our facilities and production capacity, boasting advanced testing labs and production facilities with an annual capacity of millions of fans. With over 20 years of experience, we are highly skilled in the design, development, and manufacture of fans and motors. We export to over 30 countries and serve numerous Fortune 500 clients.

Our facilities and products are compliant with certifications such as ISO9001, ISO14001, BSCI, CE, UL/ETL, CCC, EMC, and LVD. These certifications demonstrate our compliance in quality management, environmental management, social responsibility, and product safety. We are quality-oriented and dedicated to providing products and services that meet international standards.

Equipped with advanced testing labs and production facilities, including a B&K noise lab, CFD simulation lab, air dynamics test chambers, automatic welding machines, CNC machining centers, and auto robot injection machines, we ensure efficient production and on-time delivery.

As industry leaders, we prioritize technological innovation and efficiency. We employ advanced technologies such as aerodynamics principles and CFD simulation to ensure precise and efficient fan designs. Additionally, we offer customized services to design and manufacture fan systems according to specific customer requirements. Our focus is on providing high-tech, high-efficiency products that meet our customers' needs and contribute to a better future.

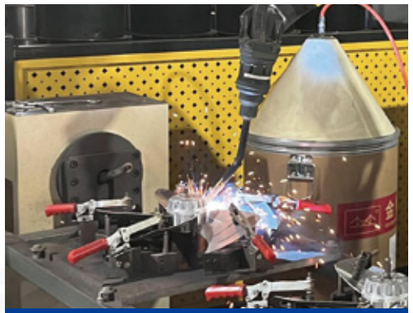
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials to deliver products that are efficient, safe, and reliable. Our brand is widely recognized globally, and we are committed to promoting sustainable development and advancing the efficient fan industry.

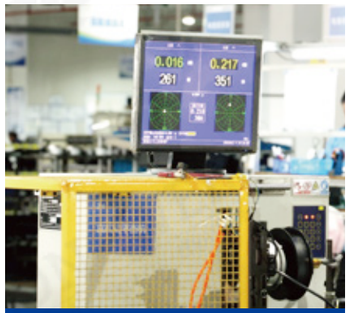
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

193	40000㎡	500+	1Million+PCS	6	50+
Staff	Floor Space	Branding Clients	Annual Outputs	Overseas offices on spot support	Members R&D Team


B&K Noise Testing Lab


Production Line


Automatic Welding

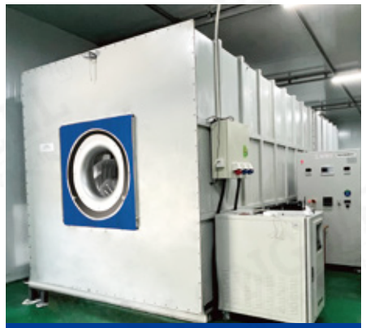


Balance Machine


Automatic Welding Machine


Production Line - Centrifugal Fan


Automatic CNC machine


Air Dynamic Test Lab


Production Line - Axial Fans


Production Line

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Testing and Standards

- ISO GB/T 19001-2016 idt ISO 9001:2015/GB/T 24001-2016 idt ISO 14001:2015/GB/T 45001-2020 idt ISO 45001:2018
- UL 507:2017 Ed.10+R:27/CSA C22.2#113:2018 Ed.11
- BSCI ANSI C63.4:2014/ANSI C63.4a-2017
- EN IEC 55014-1:2021/EN IEC 55014-2:2021/EN IEC 61000-3-2:2019 +A1:2021
  EN 61000-3-3:2013 +A1:2019 +A2:2021 +AC:2022-01
  EN 60335-2-80:2003 +A1:2004 +A2:2009;
  EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019+A14:2019 +A2:2019+A15:2021
  EN 62321-1:2013/EN 62321-2:2014/EN 62321-3-1:2014
  EN 62321-4:2014+A1:2017/EN 62321-5:2014/EN 62321-6:2015
  EN 62321-7-1:2015/EN 62321-7-2:2017/EN 62321-8:2017







Enterprise Credit Evaluation Certificate - Hightest Level in China

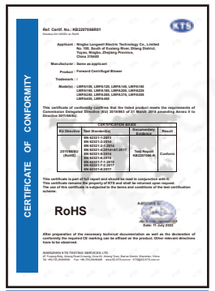

Own-Brand


Own-Brand


ETL


ETL

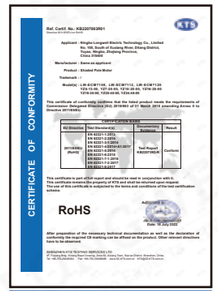

CE


RoHS


CE


CE


CE


RoHS


ETL


ETL


ETL


CE


CE


ISO 9001


ISO 9001


RoHS


RoHS


RoHS


RoHS


RoHS


CE


CE


CE

Type Code

LW - AirC - E 108

- LW: Longwell
- AirC: AirC-Air conditioner FAir-Fresh air UHeating-Underfloor heating
- E: R-Row binding posts F-Two-position junction sheet communication C-Two-position wiring dual communication WM-Wall mounted CC-Centralized control
- 108: Type

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Central Air Conditioning Floor Heating Integrated Temperature Controller

Professional HVAC Fan &Motors Manufacturer





Central Air Conditioning Floor Heating Integrated Temperature Controller

LW-AirC-6900

Product Overview And Features

The LW-AirC-6900 series central air conditioner and floor heating integrated thermostat features a frameless luxurious surface sticker and a large TFT color screen display, presenting a fashionable appearance. It is compatible with AC/EC/DC 310V motors.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Temperature Control Range: 10℃-35℃
- Button: TFT True color capacitive touch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×12MM
- Installation Hole Pitch: 60MM (Standard)



Function Options		Motor Selection
A2:Two-wire valve	H:Low-temperature protection function	G:AC Motor
A3:Three-wire valve	K:Delayed shutdown selection	H:EC Motor
A23:Compatible with both two-wire and three-wire valves	E:External temperature sensor	S:DC Motor
AB4:Suitable for use with four-pipe systems	M:485 Function N:APP Function	
	C:Timed power on/off function	
	D:Power loss memory function	
	L:Celsius/Fahrenheit temperature display	
	J:Go to the option of turning off the fan operation at the set temperature valve	
	F:Carmen function G:Host linkage function	
	R:7-day 4-period Programming	
	P:Temperature and humidity display	
	U:Cold air prevention function	

Central Air Conditioning Floor Heating Integrated Temperature Controller

LW-AirC-6801

Product Overview And Features

The LW-AirC-6801 series central air conditioner and floor heating integrated thermostat features a TFT color screen design. It has an unattended housekeeper mode, allowing for free heating and cooling, precise control with an independent shock-absorbing system. The piano-style keys offer a smooth tactile feel. It also has an automatic light sensor function, as well as 485 central control/mobile APP control/remote control functions. It is compatible with AC/EC/DC310V motors and has a programmable design for 4 time periods over 7 days. You can choose between 2-core and 7-core options.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Temperature Control Range: 10℃-35℃
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×12MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve	H:Low-temperature protection function	G:AC Motor
A3:Three-wire valve	K:Delayed shutdown selection	H:EC Motor
A23:Compatible with both two-wire and three-wire valves	E:External temperature sensor	S:DC Motor
AB4:Suitable for use with four-pipe systems	M:485 Function N:APP Function	
	C:Timed power on/off function	
	D:Power loss memory function	
	L:Celsius/Fahrenheit temperature display	
	J:Go to the option of turning off the fan operation at the set temperature valve	
	F:Carmen function G:Host linkage function	
	R:7-day 4-period Programming	
	P:Temperature and humidity display	
	U:Cold air prevention function	

Central Air Conditioning Floor Heating Integrated Temperature Controller

LW-AirC-6800

Product Overview And Features

The LW-AirC-6800 series thermostat for central air conditioner and floor heating integrated unit has an unattended housekeeper mode, free heating and cooling, a precise control independent shock absorption system, piano keys with a smooth touch feel, an automatic light sensing function, 485 central control/mobile APP control/remote control functions, is compatible with AC/EC/DC 310V motors, features a programmable design for 4 time periods within 7 days, and offers a choice between 2-core and 7-core.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Temperature Control Range: 10℃-35℃
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×12MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Timed power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor S:DC Motor

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Ultra-Thin Thermostat For Central Air Conditioner And Floor Heating Integrated Machine

LW-AirC-R1700

Product Overview And Features

The LW-AirC-R1700 series ultra-thin thermostat for central air conditioner and floor heating integrated unit features a fashionable appearance with a super-thin 9MM design, VA liquid crystal display, a programmable design for 4 time periods within 7 days. It can be equipped with 485 central control/mobile APP as an option, is compatible with AC/EC/DC 310V motors, has an optional remote control function, offers a choice between 2-core and 7-core, and has an automatic light sensing function.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Temperature Control Range: 10℃-35℃
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×9MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Timed power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor S:DC Motor

Ultra-Thin Thermostat For Central Air Conditioner And Floor Heating Integrated Machine

LW-AirC-R1701

Product Overview And Features

The LW-AirC-R1701 series ultra-thin central air conditioner and floor heating integrated thermostat, with offline voice control, fashionable appearance of 9MM ultra-thin, VA liquid crystal display, 7-day and 4-period programmable design, optional 485 central control/mobile APP, compatible with AC/EC/DC 310V motors, optional remote control function, and automatic light-sensing function.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-35°C
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×9MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Timed power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor S:DC Motor

Ultra-Thin Thermostat For Central Air Conditioner And Floor Heating Integrated Machine

LW-AirC-R1805/LW-AirC-C1806

Product Overview And Features

LW-AirC-R1805/LW-AirC-C1806 series ultra-thin central air conditioner and floor heating integrated thermostat, with fashionable appearance of 9MM ultra-thin, large liquid crystal display with physical buttons, 7-day and 4-period programmable design, optional 485 central control/mobile APP, compatible with AC/EC motors, optional remote control function, available in 2-core/7-core options.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-35°C
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×9MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Timed power on/off function D:Power loss memory function J:Go to the option of turning off the fan operation at the set temperature valve G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor

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Ultra-Thin Thermostat For Central Air Conditioner And Floor Heating Integrated Machine

LW-AirC-R1801/LW-AirC-C1802

Product Overview And Features

LW-AirC-R1801/LW-AirC-C1802 series ultra-thin thermostats for central air conditioners and floor heating systems. The ultra-thin body is as thick as a wall switch. It features an automatic light sensing function, 485 centralized control/mobile APP control/remote control functions, and is compatible with AC/EC/DC 310V motors. It has a programmable design of 4 time periods over 7 days and offers options of 2-core or 7-core.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-35°C
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×9MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Timed power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor S:DC Motor

Central Air Conditioner And Floor Heating Integrated Machine

LW-AirC-R1501/LW-AirC-C1501

Product Overview And Features

The LW-AirC-R1501/LW-AirC-C1501 series thermostats for central air conditioner and floor heating integrated machines feature large liquid crystal displays with physical buttons, a programmable design of 4 time periods over 7 days. Optional 485 centralized control/mobile APP, compatible with AC/EC motors, optional remote control function, and offer options of 2-core or 7-core.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-35°C
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature function M:485 Function N:APP Function C:Clock, Timing power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor

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Central Air Conditioner And Floor Heating Integrated Machine

LW-AirC-R618/LW-AirC-C618

Product Overview And Features

LW-AirC-R618/LW-AirC-C618 series central air conditioner and floor heating integrated machines, with LED display screen, automatic light sensing function. Optional 485 centralized control/mobile APP, compatible with AC/EC motors.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-35°C
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Timed power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor

Ultra-Thin Thermostat For Central Air Conditioner And Floor Heating Integrated Machine

LW-AirC-R905/LW-AirC-C906

Product Overview And Features

The LW-AirC-R905/LW-AirC-C906 series of indoor thermostats support two-wire cable control (unordered wiring) and traditional wiring methods. It has a frameless luxurious surface sticker, a large display screen, and a feel of Apple-style buttons. It is suitable as a temperature controller for places such as homes, offices, office buildings, and schools. It can control fan coil units and electric valves. Heating, cooling, and ventilation functions can be selected through the buttons. Note: (A separate wire control box is required for the two-core wire.)

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-35°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×13MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature function M:485 Function N:APP Function C:Clock, Timing power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor

Ultra-Thin Proportional-Integral Controller

(Integrated Air Conditioner And Floor Heating System)

LW-AirC-2800

Product Overview And Features

The LW-AirC-2800 series thermostat features a frameless luxurious surface sticker, a 9MM ultra-thin design, and a large display screen, presenting a fashionable appearance. It is suitable for fan coil units and proportional-integral valve control, offering more precise temperature control and a comfortable and energy-saving usage experience.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-35°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×9MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Clock, Timing power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor

Central Air Conditioning Floor Heating Integrated Temperature Controller

LW-AirC-R907/LW-AirC-C908

Product Overview And Features

The LW-AirC-R907/LW-AirC-C908 series of indoor thermostats have two-wire cable control with unordered wiring and traditional wiring methods. It features a frameless luxury surface sticker and a large display screen. It is suitable as a temperature controller for places such as homes, offices, office buildings, and schools. It can control fan coil units and electric valves, and functions like heating, cooling, and ventilation can be selected through buttons. Note: (A separate wire control box is required for the two-core wire.)

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-30°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×13MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Clock, Timing power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve F:Carmen function G:Host linkage function R:7-day 4-period Programming P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor

Central air conditioner and floor heating integrated machine

LW-AirC-1500

Product Overview And Features

The LW-AirC-1500 series of central air-conditioning and floor heating integrated machines comes with an extra-large LED display screen and an automatic light sensing function. It supports 485 centralized control and mobile phone APP control, and is compatible with AC/EC motors.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Temperature Control Range: 10℃-35℃
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM



Valve Type Selection	Function Options	Motor Selection
A2:Two-wire valve A3:Three-wire valve A23:Compatible with both two-wire and three-wire valves AB4:Suitable for use with four-pipe systems	H:Low-temperature protection function K:Delayed shutdown selection E:External temperature sensor M:485 Function N:APP Function C:Timed power on/off function D:Power loss memory function L:Celsius/Fahrenheit temperature display J:Go to the option of turning off the fan operation at the set temperature valve G:Host linkage function P:Temperature and humidity display U:Cold air prevention function	G:AC Motor H:EC Motor

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Wireless Thermostat

LW-AirC-101



Product Overview And Features

The LW-AirC-101 wireless thermostat is suitable for hidden installation to control fan coil units (it can control the electric valve or not), electric air valves, auxiliary electric heating and other air-conditioning terminal equipment. A typical application scenario is that when the terminal control equipment is not convenient for surface installation and must be installed in a hidden way, it can be controlled remotely or by remote control.

The controller can be placed or installed in any suitable location.

Adopt a dust-proof design.

The temperature sensor and infrared receiver are externally connected, and the distance can be flexibly controlled.

Terminal wiring, easy to install.

It has an infrared remote control interface, and a remote control can be selected to achieve remote control.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Temperature Control Range: 10℃-30℃
- Button: 1A(Inductive load) 2A(Resistive load)
- Standby Function: < 1.5W
- Power Voltage: AC220V±10%,50HZ

LONGWELL®
Turn to Experts - HVAC&R

Fresh Air Controller

Professional HVAC Fan &Motors Manufacturer





Ningbo Longwell Electric Technology Co., Ltd
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Ultra-thin Fresh Air Controller

LW-FAir-1800

Product Overview And Features

LW-FAir-1800 series fresh air controllers feature a stylish appearance, 8MM ultra-thin design, large LCD display with touch buttons, automatic light sensing function, optional 485 centralized control/mobile APP, optional remote control function, compatible with AC/EC/DC motors.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×8MM
- Installation Hole Pitch: 60MM



Sensor Selection	Function Options	Motor Selection
A:VOC	B:Heating function	G:AC Motor
B:PM2.5	C:Negative ion function	H:EC Motor
C:Carbon dioxide	D:Bypass valve function	D:DC Motor
D:Temperature and humidity	E:Filter reminder	
	F:Timing function	
	G:7-day 4-period Programming	
	H:485 Function I:APP Function	

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Fresh Air Controller

LW-FAir-1301

Product Overview And Features

The LW-FAir-1301 series fresh air controller has an extra-large touch screen and an ultra-thin body. It is built-in with PM2.5, CO2, temperature, humidity, VOC sensors. It can be controlled by 485 central control and a mobile APP. It is also compatible with AC/EC motors.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM



Sensor Selection	Function Options	Motor Selection
A:VOC B:PM2.5 C:Carbon dioxide D:Temperature and humidity	B:Heating function C:Negative ion function D:Bypass valve function E:Filter reminder F:Timing function G:7-day 4-period Programming H:485 Function I:APP Function	G:AC Motor H:EC Motor D:DC Motor

Fresh Air Controller

LW-FAir-1202

Product Overview And Features

The LW-FAir-1202 series fresh air controller features a frameless luxury panel sticker, an extra-large display screen, and an Apple-style button feel, making it more fashionable and luxurious in appearance. It is suitable for controlling fresh air systems in places such as homes, offices, office buildings, and schools.

Technical Specifications

- Air Detection: Laser sensor, VOC etc.
- Measurement Range: 5°C-30°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Installation Hole Pitch: 60MM(Standard)
- Outline Dimension: 86×86×27MM Integrated machine



86×86×15MM Split machine

Sensor Selection	Function Options	Motor Selection
A:VOC B:PM2.5 C:Carbon dioxide D:Temperature and humidity E:Formaldehyde	B:Heating function C:Negative ion function(Choose either B or C) D:Dehumidification function E:Bypass valve function G:Frost protection function H:RFID Identification function J:Wireless communication mode K:Humidification function I:Remote control function O:Strainer reminder function P:Timing function Q:7-day 4-period Programming M:485 Function N:APP Function	G:AC Motor H:EC Motor D:DC Motor

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Fresh Air Controller

LW-FAir-1203

Product Overview And Features

The LW-FAir-1203 series fresh air controller features a frameless luxury panel sticker, an extra-large display screen, and an Apple-style button feel, making it more fashionable and luxurious in appearance. It is suitable for controlling fresh air systems in places such as homes, offices, office buildings, and schools.

Technical Specifications

- Air Detection: Laser sensor, VOC etc.
- Measurement Range: 5°C-30°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Installation Hole Pitch: 60MM(Standard)
- Outline Dimension: 86×86×27MM Integrated machine 86×86×15MM Split machine



Sensor Selection	Function Options	Motor Selection
A:VOC B:PM2.5 C:Carbon dioxide D:Temperature and humidity E:Formaldehyde	B:Heating function C:Negative ion function(Choose either B or C) D:Dehumidification function E:Bypass valve function G:Frost protection function H:RFID identification function J:Wireless communication mode K:Humidification function I:Remote control function O:Strainer reminder function P:Timing function Q:7-day 4-period Programming M:485 Function	G:AC Motor H:EC Motor D:DC Motor

Ultra-thin Fresh Air Controller

LW-FAir-1805

Product Overview And Features

LW-FAir-1805 series fresh air controllers feature a stylish appearance with an ultra-thin design of 8MM, large liquid crystal displays for physical buttons, a programmable design for four time periods in 7 days, an optional 485 centralized control/mobile APP, compatibility with AC/EC/DC motors, an optional remote control function, and a choice between 2-core and 7-core options.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×8MM
- Installation Hole Pitch: 60MM



Sensor Selection	Function Options	Motor Selection
A:VOC B:Temperature and humidity	B:Heating function C:Negative ion function D:Bypass valve function E:Filter reminder F:Timing function G:7-day 4-period Programming H:485 Function I:APP Function	G:AC Motor H:EC Motor D:DC Motor

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Fresh Air Controller

LW-FAir-1600

Product Overview And Features

LW-FAir-1600 series fresh air controller, with a super-large LED touch screen and an automatic light-sensing function. Optional 485 centralized control/mobile phone APP. Compatible with AC/EC motors, and built-in temperature, humidity, and VOC sensors.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM



Sensor Selection	Function Options	Motor Selection
A:Temperature and humidity	B:Heating function C:Negative ion function D:Bypass valve function E:Filter reminder F:Timing function H:485 Function I:APP Function	G:AC Motor H:EC Motor D:DC Motor

Fresh Air Controller

LW-FAir-618

Product Overview And Features

LW-FAir-618 series fresh air controllers, with LED display screen, automatic light sensing function, optional 485 centralized control/mobile APP, and compatible with AC/EC motors.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×14MM
- Installation Hole Pitch: 60MM



Sensor Selection	Function Options	Motor Selection
A:Temperature and humidity	B:Heating function C:Negative ion function D:Bypass valve function E:Filter reminder F:Timing function G:7-day 4-period Programming H:485 Function I:APP Function	G:AC Motor H:EC Motor D:DC Motor

Fresh Air Controller

LW-FAir-1502

Product Overview And Features

LW-FAir-1502 series fresh air controllers, featuring an extra-large LCD screen. The physical buttons are durable. It supports 485 centralized control/mobile APP and is compatible with AC/EC motors.

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1℃
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM



Sensor Selection	Function Options	Motor Selection
A:VOC B:PM2.5 C:Carbon dioxide D:Temperature and humidity	B:Heating function C:Negative ion function D:Bypass valve function E:Filter reminder F:Timing function G:7-day 4-period Programming H:485 Function I:APP Function	G:AC Motor H:EC Motor D:DC Motor

Fresh Air Controller

LW-FAir-120A

Product Overview And Features

LW-FAir-120A series fresh air controllers offer two-wire wired control with disorder-free wiring and traditional wiring methods. They are suitable for controlling fresh air systems in places such as homes, offices, office buildings, and schools. Note: (A wired control box needs to be separately equipped for the two-core cable.)

Technical Specifications

- Measurement Range: 5°C-30°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM



Sensor Selection	Function Options	Motor Selection
Two-core wired control Disorder-free wiring	B:Heating function C:Negative ion function(Choose either B or C) D:Filter reminder F:Timing function G:7-day 4-period Programming H:485 Function I:APP Function	G:AC Motor

Fresh Air Controller

LW-FAir-1209

Product Overview And Features

The LW-FAir-1209 series of fresh air controllers feature a luxurious fingerprint-resistant surface-mounted screen and a fashionable appearance. They are suitable for controlling fresh air systems in places such as homes, offices, office buildings, and schools.

Technical Specifications

- Measurement Range: 10°C-30°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Capacitive touch keys
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM(Standard)



Sensor Selection	Function Options	Motor Selection
A:VOC D:Temperature and humidity	B:Heating function C:Negative ion function(Choose either B or C) E:Bypass valve function D:Filter reminder F:Timing function H:485 Function I:APP Function	G:AC Motor H:EC Motor

Fresh Air Controller

LW-FAir-302A

Product Overview And Features

The LW-FAir-302A series of fresh air controllers offer two wiring methods: disorder-free wiring for 2-core wired control and traditional wiring. The panel is made of luxurious surface stickers, presenting a fashionable appearance. They are suitable for controlling fresh air systems in places such as homes, offices, office buildings, and schools. Note: (A wired control box for the two-core wire needs to be purchased separately.)

Technical Specifications

- Temperature Sensing Element: NTC Thermistor
- Control Accuracy: ±1°C
- Temperature Control Range: 10°C-30°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Touch switch
- Standby Function: < 1.5W
- Power Voltage: AC100-240V 50/60HZ
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM(Standard)



Sensor Selection	Function Options	Motor Selection
A:VOC B:PM2.5 C:Carbon dioxide D:Temperature and humidity	D:Dehumidification function H:485 Function	G:AC Motor

Fresh Air Controller

LW-FAir-120B

Product Overview And Features

The LW-FAir-120B series of fresh air controllers feature disorder-free wiring for the 2-core wired control and the traditional wiring method. They are suitable for controlling the fresh air systems in such places as homes, offices, office buildings, schools, etc. Note: (A wired control box for the two-core wire needs to be provided separately.)

Technical Specifications

- Measurement Range: 5°C-30°C
- Working Environment: 0-45°C/5-95%RH(Non-condensing)
- Button: Touch switch
- Standby Function: < 1.5W
- Outline Dimension: 86×86×15MM
- Installation Hole Pitch: 60MM(Standard)



Sensor Selection	Function Options	Motor Selection
Two-core wired control Disorder-free wiring	B:Heating function C:Negative ion function(Choose either B or C) D:Filter reminder F:Timing function G:7-day 4-period Programming H:485 Function I:APP Function	G:AC Motor

Floor Heating Control

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Secondary Pump Linkage Module

LW-UHeating-01

Product Overview And Features

The secondary pump linkage module is designed to realize the linkage control of the air-conditioning and floor heating water system. It can automatically identify summer and winter and has a built-in anti-freezing function. It is wired to be linked with various equipment in the system. According to the instructions of the room thermostat, it can link heat sources such as the air source heat pump host. At the same time, it can also actively link power equipment such as secondary water pumps and electric valves to achieve system energy conservation.



Technical Specifications

Input:	AC 220V I nput, passive contact input of the temperature controller.
Output:	1000W Output for the water pump (relay: 250V 30A) Output for the bypass valve (relay: 250V 5A) Passive contact output for the air source heat pump host (relay: 250V 5A)
Temperature probe:	High-precision thermistor waterproof probe, B3435, 1%, 10K.

Floor Heating Thermostat

LW-UHeating-62

Product Overview And Features

The LW-UHeating-62 series of floor heating thermostats feature a frameless luxury surface sticker and a large display screen, presenting a fashionable appearance. They are suitable for the control of electric heating, water heating, or natural gas heating systems. The user-friendly energy-saving mode and time period programming settings allow the temperature to be adjusted in six time periods throughout the day.

Technical Specifications

Temperature Sensing Element:	NTC Thermistor
Control Accuracy:	±1℃
Load Current:	1A (inductive load) 2A (resistive load)
Temperature Control Range:	10℃-30℃
Working Environment:	0-45℃/5-95%RH(Non-condensing)
Button:	Touch switch
Standby Function:	< 1.5W
Power Voltage:	AC100-240V 50/60HZ
Outline Dimension:	86×86×15MM
Installation Hole Pitch:	60MM



Function Description

1.7-day 6-time period programming
2.Automatic and manual modes
3.Temperature control function
4.Optional selection of electric heating and pipe valves
5.External temperature function
6.Host linkage function
7.tt
8.485 Function