The Withair System

SIMPLY THE BEST SOLUTION AND QUALITY PRODUCT

—— HVACR SYSTEMS

Tel: +8613915928183 (WhatsApp)
Https://www.withair.cn
E-mail: info@withair.cn
Wechat: Withairgroup
Products Overview

Different Temperature Heat Pumps & Chillers

Comfort, Efficient and Quiet!

Minimize your installed cost while maximizing your space comfort. From Small to Large capacity with configurable options, a range of efficiency choices, and Smart Equipment on different models, find the right units to meet your needs.
Withair's products, Your Install Confidence
To create an environment that's ideal for people to live and work in, you need something that's both extraordinarily innovative and exceptionally reliable. You need something that gives you confidence. So why would you install anything but Withair?
We’ve a lot of solutions to care "Construction"
Modular Version Air Cooled Water Chiller & Heat Pump Series

W01R1-68÷W01R1-200
Cooling capacity range: 68.0kW ÷ 350.0kW
Heating capacity range: 72.5kW ÷ 375kW
Evaporator: shell and tube
Compressor: scroll type
Refrigerant: R410A,R407c, R22

Heat recovery mode as option

Product Features:

* Using modular networking technology, the operation of individual modules can be coordinated according demand.

* V-shaped air-side heat exchangers and unique exchanger protection technology (patent ZL 2010 2 0243062.2) increases heat exchange efficiency to 30% above that of conventional heat exchangers.

* Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.

* Advanced hermetic scroll compressor high-efficiency, low-noise, and low-vibration operation.

* Remote monitoring and control features enable the unit’s operational schedule to be set via internet or phone.

* Standalone subsystems enable maintenance of individual subsystems without affecting the continued operation of the rest.

* Heat recycling function provides free hot water using heat removed from room during cooling.

Notes: 1. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
2. Partial heat recovery for domestic hot water is available
3. The machine mentioned above is standard unit, customized product is available.
EVI Heat Pump Series

W01R1-12E÷W01R1-66E

- Cooling capacity range: 10.2 ÷ 136.0 kW
- Heating capacity range: 11.8 ÷ 152.0 kW
- Evaporator: shell and tube
- Compressor: scroll type (Inverter type as option)
- Refrigerant: R410A, R407c, R22

Product Features:

* Operation outdoor temperature: -35℃~45℃.

* V-shaped air-side heat exchangers and unique exchanger protection technology (patent ZL 2010 2 0243062.2) increases heat exchange efficiency to 30% above that of conventional heat exchangers.

* Using modular networking technology, the operation of individual modules can be coordinated according demand.

* Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.

* Uses advanced hermetic scroll compressor high-efficiency, low-noise, and low-vibration operation.

* Compressor with air-supplying enthalpy-adding device, it can effectively improve heat capacity.

* Remote monitoring and control features enable the unit’s operational schedule to be set via internet or phone.

* Standalone subsystems enable maintenance of individual subsystems without affecting the continued operation of the rest.

Notes: 1. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
2. Partial heat recovery for domestic hot water is available
3. The machine mentioned above is standard unit, customized product is available.
W01R1-200S ÷ W01R1-1500S

Cooling capacity range: 200.0kW ÷ 1510.0kW
Heating capacity range: 220.0kW ÷ 1684.0kW
Evaporator: shell and tube
Compressor: screw type
Refrigerant: R134a, R407c, R22

Features:

* Low Operation Cost

* Simple & Rational Design

* Low Vibration and Noise

* High Efficiency

* Intelligent Control, Energy Saving

Notes:

1. The machine mentioned above is standard unit, customized product is available.
Products Overview       Air Cooled Water Chiller & Heat Pump Series

Monoblock Air Cooled Chiller & Heat Pump

W01R1-8 ÷ W01R1-40
Cooling capacity range: 7.8kW ÷ 40.0kW
Heating capacity range: 8.6kW ÷ 42.0kW
Refrigerant: R410A,R407c, R22

Product Features:

* Self diagnosis Auto defrost function
* Inner-grooved copper tube
* Low noise design, Various protective function
* World famous brand compressors
* Cable / Remote controller option, High efficient, low running cost.
* Easy installation and maintenance

Notes: 1. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
2. Partial heat recovery and total heat recovery for domestic hot water is available
3. The machine mentioned above is standard unit, customized product is available.
W01R1-8I ÷ W01R1-80I
Cooling capacity range: 8.2kW ÷ 81.2kW
Heating capacity range: 9.3kW ÷ 85.7kW
Refrigerant: R410A, R407c, R22

Product Features:

* Self diagnosis Auto defrost function
* Inner-grooved copper tube
* Low noise design, Various protective function
* World famous brand compressors
* Cable / Remote controller option, High efficient, low running cost.
* Easy installation and maintenance

Notes:
1. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
2. Partial heat recovery and total heat recovery for domestic hot water is available
3. The machine mentioned above is standard unit, customized product is available.
Products Overview  DC Inverter Packaged Heat Pump Series

DC Inverter Packaged Heat Pump

W01R1-2PT ÷ W01R1-35PT
Cooling capacity range: 7000Btu/h ÷ 12000Btu/h
Heating capacity range: 7200Btu/h ÷ 12400Btu/h
Refrigerant: R410A

Product Features:

* Self diagnosis Auto defrost function
* Inner-grooved copper tube
* Low noise design, Various protective function
* World famous brand compressors
* Easy installation and maintenance.
* Cable / Remote controller option, High efficient, low running cost.
* The machine mentioned above is standard unit, customized product is available.
Withair® packaged rooftop units were designed to be easy to install, maintain, and operate, with customer-requested features including a gage port, centralized control center, plug-and-play accessory board, "no-strip screw" collars, and handled access panels. Units are field-convertible to horizontal airflow without special adapter curbs or kits, making it easy for the installer to adjust to unexpected jobsite complications. Units are pre-wired and pre-charged with environmentally (R-410A) refrigerant and are factory tested. Withair® packaged rooftop unit applicability is wide and used in shopping malls, hotels, factories, villas, commercial housing, office buildings, shops, hospitals and other places.
Withair® DC Inverter packaged rooftop units were designed to be easy to install, maintain, and operate, with customer-requested features including a gage port, centralized control center, plug-and-play accessory board, "no-strip screw" collars, and handled access panels. Units are field-convertible to horizontal airflow without special adapter curbs or kits, making it easy for the installer to adjust to unexpected jobsite complications. Units are pre-wired and pre-charged with environmentally (R-410A) refrigerant and are factory tested. Withair® packaged rooftop unit applicability is wide and used in shopping malls, hotels, factories, villas, commercial housing, office buildings, shops, hospitals and other places.
Withair® DC Inverter packaged rooftop units were designed to be easy to install, maintain, and operate, with customer-requested features including a gage port, centralized control center, plug-and-play accessory board, "no-strip screw" collars, and handled access panels. Units are field-convertible to horizontal airflow without special adapter curbs or kits, making it easy for the installer to adjust to unexpected jobsite complications. Units are pre-wired and pre-charged with environmentally (R-410A) refrigerant and are factory tested. Withair® packaged rooftop unit applicability is wide and used in shopping malls, hotels, factories, villas, commercial housing, office buildings, shops, hospitals and other places.
Withair® packaged rooftop units were designed to be easy to install, maintain, and operate, with customer-requested features including a gage port, centralized control center, plug-and-play accessory board, "no-strip screw" collars, and handled access panels. Units are field-convertible to horizontal airflow without special adapter curbs or kits, making it easy for the installer to adjust to unexpected jobsite complications. Units are pre-wired and pre-charged with environmentally (R-410A) refrigerant and are factory tested. Withair® packaged rooftop unit applicability is wide and used in shopping malls, hotels, factories, villas, commercial housing, office buildings, shops, hospitals and other places.

Withair® Packaged rooftop units with gas heat, modulating hot gas reheat and modulating compressors applied to deliver dehumidified air for the building.

DC inverter compressor, Indirect Fired Furnace version and Direct-fired Gas Heating Make-up Air Unit (Cooling & Heating) as option.
Dedicated Outdoor Air System (Heat Recovery & Fresh Air) Series

**W05R1-4RFHI** ÷ **W05R1-135RFHO**
- Cooling capacity range: 3.8kW ÷ 135.3kW
- Heating capacity range: 4.1kW ÷ 132.0kW
- Refrigerant: R410A, R407c, R22

Improve indoor air quality with a DOAS providing the ventilation, heat recovery and dehumidification that your system needs.

Withair® Integrated Outdoor Air System combines a dedicated outdoor air system (DOAS) with chilled-water, sensible-cooling terminal units to deliver a flexible, energy efficient solution to provide comfortable spaces and simplify maintenance.

DOAS are designed to provide ventilation for the most demanding applications. All series 100% outdoor air units feature high capacity DX coils and efficient scroll compressors, making them ideal for schools, hotels, offices and other buildings that require efficient and reliable ventilation. A DOAS is a special HVAC system in which its purpose is to treat outside air for ventilation of air in a space or to an ancillary cooling and heating system. A common application is for the use of exclusively treating outside air in order to achieve a high indoor air quality. Poor indoor air quality can lead to negative impacts on the building occupants, indoor components, and overall condition of the building.

Withair® DOAS is a factory-assembled packaged unit that can operate within a broad range of ambient conditions and introduce ventilation air into a building at neutral conditions. The unit can be configured to utilize straight cooling, gas/electric/hot water heating, or an air/water source heat pump. It consists of matched refrigeration and air moving components (system controls, compressor(s), evaporator section, condensing section and fan(s)) designed to cool, heat, and/or dehumidify 100% outside air and/or mixed air. The unit may be provided with several different options and controls to meet various application requirements including optional hot gas reheat and liquid subcooling, energy recovery wheel, and supplemental heat (gas, electric, or hot water) with variable air volume delivery.
Withair® Fresh Air Heat Pumps can handle all your heating, ventilation and air conditioning needs. Based on the traditional air conditioner, our Fresh Air Heat Pump is equipped with heat pump and fresh air ventilation system. With multistage energy recovery, the energy efficiency is even higher. It can be a good partner of traditional air conditioner, and can replace traditional air conditioner in transition season. It overcomes the weaknesses of no fresh air of ordinary air conditioner, high energy consumption and big temperature fluctuation of ordinary fresh air ventilator. It controls the fresh air at a constant temperature and humidity, and the regulation of indoor CO2, harmful gases, concentration of fine particulate matter (PM2.5). It makes the fresh air led into the room more comfortable and healthy.
Clean Air Conditioning Series

W01CO-100ACT÷ W01CO-250ACTM*4

- Cooling capacity range: 25.0 ÷ 248.0 kW
- Heating capacity range: 20.0 ÷ 180.0 kW
- Refrigerant: R410A, R407c, R22

Bacteria count and cleanliness of indoor air meet the comprehensive requirements of the operating room, comfort is the most basic requirement, energy-saving operation is the enduring topic of clean air-conditioners, and only reliable air-conditioning system can guarantee the health of doctors and patients.

Withair have developed a direct evaporative (direct expansion) air conditioning unit for operating cleanrooms. The unit is a combined air processor with its own heat and cold source. It consists of an outdoor part (air cooled compressor condensing unit) and an indoor part (air treatment unit through direct evaporative heat exchanger, including control system). Indoor and outdoor through refrigerant pipeline connection, without water system, simple and energy-saving. At the same time, the unit also can be used in other clean room applications.
Products Overview  Multi Split DX Heat Pump

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFR-26S+35S</td>
<td>9,000Btu/h+12,000Btu/h</td>
</tr>
<tr>
<td>WFR-26*3</td>
<td>9,000Btu/h+9,000Btu/h+9,000Btu/h</td>
</tr>
<tr>
<td>WFR-26S*2+35S</td>
<td>9,000Btu/h+9,000Btu/h+9,000Btu/h+12,000Btu/h</td>
</tr>
<tr>
<td>WFR-35S*3</td>
<td>12,000Btu/h+12,000Btu/h+12,000Btu/h</td>
</tr>
<tr>
<td>WFR-26S*4</td>
<td>9,000Btu/h+9,000Btu/h+9,000Btu/h+9,000Btu/h</td>
</tr>
<tr>
<td>WFR-35S*4</td>
<td>12,000Btu/h+12,000Btu/h+12,000Btu/h</td>
</tr>
<tr>
<td>WFR-50S*4</td>
<td>18,000Btu/h+18,000Btu/h+18,000Btu/h</td>
</tr>
<tr>
<td>WFR-70S*4</td>
<td>24,000Btu/h+24,000Btu/h+24,000Btu/h</td>
</tr>
</tbody>
</table>

Optional refrigerant: R410A, R407c, R22

Product Features:

* One outdoor connect wall type two indoors, three indoors, four indoors.

* Microcomputer intelligent control, LCD display remote controller and user-friendly operation.

* Freely switch to cooling mode or heating mode by water system or refrigerant system.
Products Overview  Multi Split DX Heat Pump (Indoor Unit with Hot Water Coils as option)

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFR-26F+35F</td>
<td>9,000Btu/h+12,000Btu/h</td>
</tr>
<tr>
<td>WFR-26F*3</td>
<td>9,000Btu/h+9,000Btu/h+9,000Btu/h</td>
</tr>
<tr>
<td>WFR-26F*2+35F</td>
<td>9,000Btu/h+9,000Btu/h+12,000Btu/h</td>
</tr>
<tr>
<td>WFR-35F*3</td>
<td>12,000Btu/h+12,000Btu/h+12,000Btu/h</td>
</tr>
<tr>
<td>WFR-26F*4</td>
<td>9,000Btu/h+9,000Btu/h+9,000Btu/h+9,000Btu/h</td>
</tr>
<tr>
<td>WFR-35F*4</td>
<td>12,000Btu/h+12,000Btu/h+12,000Btu/h+12,000Btu/h</td>
</tr>
<tr>
<td>WFR-50F*4</td>
<td>18,000Btu/h+18,000Btu/h+18,000Btu/h+18,000Btu/h</td>
</tr>
<tr>
<td>WFR-70F*4</td>
<td>24,000Btu/h+24,000Btu/h+24,000Btu/h+24,000Btu/h</td>
</tr>
</tbody>
</table>

Optional refrigerant: R410A, R407c, R22

Product Features:

* One outdoor connect wall type two indoors, three indoors, four indoors.

* Microcomputer intelligent control, LCD display remote controller and user-friendly operation.

* Freely switch to cooling mode or heating mode by water system or refrigerant system.
Ducted Split Air Conditioners (ON/OFF type / Inverter type)

W01R-5NW ÷ W01R-28NW (ON/OFF type)
- Cooling capacity range: 5.3kW ÷ 28.6kW
- Heating capacity range: 5.8kW ÷ 29.5kW
- Refrigerant: R410A, R407c, R22

W01R-5INW ÷ W01R-28INW (Inverter type)
- Cooling capacity range: 5.3kW ÷ 28.6kW
- Heating capacity range: 5.8kW ÷ 29.5kW
- Refrigerant: R410A, R407c, R22
W01R1-4H1÷ W01R1-7H1

Heating capacity range: 4.0kW ÷ 7.0kW
Evaporator: shell and tube
Compressor: scroll type
Refrigerant: R410A, R407c, R22
Want tank volume: 100L ÷ 500l

The highest outlet water temperature reach 55℃

Product Features:

* High efficiency heat exchangers and unique exchanger protection technology (patent ZL 2010 2 0243062.2) increases heat exchange efficiency to 30% above that of conventional heat exchangers.

* Using modular networking technology, the operation of individual modules can be coordinated according demand.

* Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.

* Uses advanced hermetic scroll compressor high-efficiency, low-noise, and low-vibration operation.

* Compressor with air-supplying enthalpy-adding device, it can effectively improve heat capacity.

* Remote monitoring and control features enable the unit’s operational schedule to be set via internet or phone.

* Standalone subsystems enable maintenance of individual subsystems without affecting the continued operation of the rest.

Note: 1. The machine mentioned above is standard unit, customized product is available.
2. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available.
**Products Overview**  
**Air Cooled Heat Pump Series (Air to Water)**

**Commercial Use Air Source Heat Pump Water Heater (Air to Water)**

W01R1-11WH÷W01R1-85WH

- Heating capacity range: 11.3kW ÷ 85.0kW
- Evaporator: tube in tube & shell and tube
- Compressor: scroll type
- Refrigerant: R410A, R407c, R22

The highest outlet water temperature reach 55℃

**Product Features:**

- High efficiency heat exchangers and unique exchanger protection technology (patent ZL 2010 2 0243062.2) increases heat exchange efficiency to 30% above that of conventional heat exchangers.

- Using modular networking technology, the operation of individual modules can be coordinated according demand.

- Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.

- Uses advanced hermetic scroll compressor high-efficiency, low-noise, and low-vibration operation.

- Compressor with air-supplying enthalpy-adding device, it can effectively improve heat capacity.

- Remote monitoring and control features enable the unit’s operational schedule to be set via internet or phone.

- Standalone subsystems enable maintenance of individual subsystems without affecting the continued operation of the rest.

**Note:**

1. The machine mentioned above is standard unit, customized product is available.
2. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
DC Inverter Air Cooled Heat Pump Series (Air to Water)

- **W01R1-12IWH÷W01R1-36IWH**
  - Heating capacity range: 12.0kW ÷ 36.8kW
  - Evaporator: tube in tube & shell and tube
  - Compressor: scroll type
  - Refrigerant: R410A, R407c, R22

  The highest outlet water temperature reach 55°C~90°C

**Product Features:**

* High efficiency heat exchangers and unique exchanger protection technology (patent ZL 2010 2 0243062.2) increases heat exchange efficiency to 30% above that of conventional heat exchangers.

* Using modular networking technology, the operation of individual modules can be coordinated according demand.

* Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.

* Uses advanced hermetic scroll compressor high-efficiency, low-noise, and low-vibration operation.

* Compressor with air-supplying enthalpy-adding device, it can effectively improve heat capacity.

* Remote monitoring and control features enable the unit’s operational schedule to be set via internet or phone.

* Standalone subsystems enable maintenance of individual subsystems without affecting the continued operation of the rest.

**Note:**
1. The machine mentioned above is standard unit, customized product is available.
2. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
Water to Water Heat Pumps (Modular Version)

W01R2-8P(T)÷ W01R2-130P(T)

- Cooling capacity range: 7.9kW ÷ 131.5kW
- Heating capacity range: 8.9kW ÷ 152.6kW
- Heat exchanger: plate type, coaxial tube-in-tube & shell and tube
- Optional refrigerant: R410A, R407c, R134a, R22

Product Features:

* Plate type heat exchanger for better heat exchange performance, reliable quality.

* Large diameter coaxial tube-in-tube heat exchanger for high performance, reliability, and resistance to freezing.

* Multi-systems design and balance wear technology, small impact power grid and long service life.

* Modular networking technology, flexible combination, you can increase or reduce the numbers of units according to the demand load.

* Microcomputer intelligent control, LCD display panel and user-friendly operation.

* Remote monitoring and control features enable the unit’s operational schedule to be set via internet or phone.

* Unique shock absorption technology for compressor (patent No. ZL202020243049.7), and built-in the latest damping material and super low noise.

* Heat recovery function, freely supply hot water in cooling mode.

* Unique movable control cabinet patent technology (patent NO. ZL 2010 2 0243025.1), easy to install, commission and maintain.

Notes:
1. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
2. Partial heat recovery and total heat recovery for domestic hot water are available
3. Suitable source: water loop, groundwater, ground loop.
4. The machine mentioned above is standard unit, customized product is available.
**Products Overview**

**Ground/Water Source Heat Pumps**

**Water Source Heat Pumps (Water to Air Version)**

<table>
<thead>
<tr>
<th>Split version (concealed, cassette, wall as of)</th>
<th>Monoblock version (ceiling horizontal &amp; vertical)</th>
<th>Monoblock version (ceiling &amp; floor)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W01R2-2.6S÷W01R2-14.6S</td>
<td>W01R2-2.6P÷W01R2-17.5P</td>
<td>W01R2-21P÷W01R2-140P</td>
</tr>
<tr>
<td>Cooling capacity: 2.6kW ÷ 14.6kW</td>
<td>Cooling capacity: 2.6kW ÷ 17.5kW</td>
<td>Cooling capacity: 21.0kW ÷ 140.0kW</td>
</tr>
<tr>
<td>Heating capacity: 3.0kW ÷ 15.8kW</td>
<td>Heating capacity: 3.0kW ÷ 19.6kW</td>
<td>Heating capacity: 23.62kW ÷ 162.9kW</td>
</tr>
<tr>
<td>Optional refrigerant: R410A, R407c, R22</td>
<td>Optional refrigerant: R410A, R407c, R22</td>
<td>Optional refrigerant: R410A, R407c, R22</td>
</tr>
</tbody>
</table>

**Monoblock version (ceiling horizontal & vertical)**

**Monoblock version (ceiling & floor)**

**Product Features:**

* Large diameter coaxial shell-and-tube heat exchanger for high performance, reliability, and resistance to freezing.

* Unique shock absorption technology for compressor (patent No. ZL 2020 2 0243049.7), and built-in the latest damping material and super low noise.

* Microcomputer intelligent control, LCD display panel and user-friendly operation.

* Humanized parameter design, widely application places: unit’s setting temperature, inlet/outlet water temperature control, anti-freezing protection, compressor exhaust temperature other parameters could be adjusted according to site conditions.

* Unique patent technology of centralized control and remote monitoring (patent No. ZL 2010 2 0243047.8), which can realize centralized control and also be achieved On/Off by internet booking.

**Notes:**

1. The machine mentioned above is standard unit, customized product is available.
2. Suitable source: water loop, groundwater, ground loop.
**Modular Version  Water to Water Source Heat Pumps**

- **W01R2-75M÷W01R2-150M**
- Cooling capacity range: 75.0kW ÷ 149.0kW
- Heating capacity range: 82.0kW ÷ 155.0kW
- Heat exchanger: shell and tube
- Compressor: scroll type
- Optional refrigerant: R410A ,R407c,R134a,R22

**Product Features:**

* Modular networking technology, flexible combination, increase or reduce the numbers of units according to the demand load.

* Microcomputer intelligent control, LCD display panel and user-friendly operation.

* Remote monitoring function, On/Off by telephone or internet booking.

* Freely switch to cooling mode or heating mode by water system or refrigerant system.

* 30% heat recovery function

**Notes:**

1. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
2. Partial heat recovery and total heat recovery for domestic hot water are available
3. Suitable source: water loop, groundwater, ground loop.
4. The machine mentioned above is standard unit, customized product is available.
W01R2-100S1÷W01R2-2800S4
- Cooling capacity range: 116.3kW ÷ 3253.6kW
- Heating capacity range: 122.7kW ÷ 3492.4kW
- Heat exchanger: dry type shell and tube
- Compressor: screw type
- Optional refrigerant: R134A, R407c, R22

Product Features:

* Providing multiple-step type (0-25% to 50% & 75% - 100%) or stepless energy adjustment, joint user demand and reduce operation costs.

* High efficiency and energy-saving evaporator: dry type.

* PLC programming intelligent control technology, touch-screen and human-machine interface, easy to operate and operating steadily.

* Digital control technology, make early warning, prevention and necessary protection according to the variable changing trend

* High efficiency non-symmetric structural evaporator variable return shell & tube condenser

* Remote monitoring function, On/Off by telephone or internet booking.

Notes:
1. Partial heat recovery and total heat recovery for domestic hot water are available
2. Suitable source: water loop, groundwater, ground loop.
3. The machine mentioned above is standard unit, customized product is available.
W01R2-110S1M÷W01R2-2560S4M
Cooling capacity range: 127.6kW ÷ 2969.6kW
Heating capacity range: 136.2kW ÷ 3010.4kW
Heat exchanger: dry type shell and tube
Compressor: screw type
Refrigerant: R134a

Product Features:

* Adopts environmental-friendly refrigerant R134a
* The highest outlet water temperature reach 45~ 65℃
* High efficiency non-symmetric structural evaporator variable return shell & tube condenser
* Providing multiple-step type or stepless energy adjustment, joint user demand and reduce operation costs.
* PLC programming intelligent control technology, touch-screen and human-machine interface, easy to operate and operating steadily.
* Digital control technology, make early warning, prevention and necessary protection according to the variable changing trend
* Remote monitoring function, On/Off by telephone or internet booking.

Notes: 1. Partial heat recovery and total heat recovery for domestic hot water are available
2. Suitable source: water loop, groundwater, ground loop.
3. The machine mentioned above is standard unit, customized product is available.
W01R2-60L÷ W01R2-120L
Cooling capacity range: 90.0kW ÷ 120.0kW
Heating capacity range: 113.0kW ÷ 160.8kW
Compressor: scroll type
Refrigerant: R410A, R407c, R22

Product Features:

* Rightly according to this demand of modern agricultural development, Menergy put forward geothermal air-conditioning system which is widely applied in scaled agriculture, meeting the need of all-year-round, all-day and off-season producing.

* Using underground water or underground pipe, air-conditioning system apply shallow ground heat energy in modern planting.

* For the steady performance, reliability and low operating cost, it is greatly reputed by customers.

* Using groundwater, with the simulated designing concept of independent double system, quartic system and other multi-system,

* Menergy geothermal Agricultural Artificial Environment Air Conditioning system fully takes the demand for temperature, humidity and percentage of CO2 of Agricultural’s growth into consideration.

* The air temperature, humidity and content of CO2 is real-time supervised. Via modifying the operating frequency of fan unit, fresh air can be offered, thus to reach the excellent load match.

* Adopting geothermal energy makes the efficient ratio reaches above 4.0, saving 30% comparing to using air energy;

* Equipped with hot water coil, groundwater may precool/preheat the air in summer/winter in order to improve the air quality and to effectively save energy by reducing units operation.
Water Cooled Mini Chiller (Modular Version)

W02C2-8P(T)÷W02C2-130P(T)

Cooling capacity range: 7.9kW ÷ 131.5kW
Heat exchanger: plate type, coaxial tube-in-tube & shell and tube
Optional refrigerant: R410A, R407c, R134a, R22

Product Features:

* Plate type heat exchanger for better heat exchange performance, reliable quality.


* Multi-systems design and balance wear technology, small impact power grid and long service life.

* Modular networking technology, flexible combination, you can increase or reduce the numbers of units according to the demand load.

* Microcomputer intelligent control, LCD display panel and user-friendly operation.

* Remote monitoring and control features enable the unit’s operational schedule to be set via internet or phone.

* Unique shock absorption technology for compressor (patent No. ZL202020243049.7), and built-in the latest damping material and super low noise.

* Heat recovery function, freely supply hot water in cooling mode.

* Unique movable control cabinet patent technology (patent NO. ZL 2010 2 0243025.1), easy to install, commission and maintain.

Notes:

1. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
2. Partial heat recovery and total heat recovery for domestic hot water are available
3. The machine mentioned above is standard unit, customized product is available.
Products Overview  Modular Version Water Cooled Water Chillers

Modular Version Water Cooled Scroll Chiller

W02C2-75M ÷ W02C2-150M
Cooling capacity range: 75.0kW ÷ 149.0kW
Heat exchanger: shell and tube
Compressor: scroll type
Optional refrigerant: R410A,R407c,R22

Product Features:

* Modular networking technology, flexible combination, you can increase or reduce the numbers of units according to the demand load.

* Microcomputer intelligent control, LCD display panel and user-friendly operation.

* Remote monitoring function, On/Off by telephone or internet booking.

* Freely switch to cooling mode or heating mode by water system or refrigerant system.

* 30% heat recovery function

Notes:  
1. Built-in hydronic kits version (water pump, expansion tank, water tank, etc.) is available
2. Partial heat recovery and total heat recovery for domestic hot water are available
3. The machine mentioned above is standard unit, customized product is available.
W02C2-100S1 ÷ W02C2-2800S4

Cooling capacity range: 116.3kW ÷ 3253.6kW
Heat exchanger: dry type shell and tube
Compressor: screw type
Optional refrigerant: R134a, R407c, R22

Product Features:

* Providing multiple-step type (0-25% to 50% & 75% - 100%) or stepless energy adjustment, joint user demand and reduce operation costs.

* High efficiency and energy-saving evaporator: dry type.

* PLC programming intelligent control technology, touch-screen and human-machine interface, easy to operate and operating steadily.

* Digital control technology, make early warning, prevention and necessary protection according to the variable changing trend

* High efficiency non-symmetric structural evaporator variable return shell & tube condenser

* Remote monitoring function, On/Off by telephone or internet booking.

Notes: 1. Partial heat recovery and total heat recovery for domestic hot water are available
2. The machine mentioned above is standard unit, customized product is available.
Products Overview

Water Cooled Water Chillers (Monoblock Water to Air Version)

Monoblock Water Cooled Unit (Water to Air Version)

W02C2-28DY ÷ W02C2-200DY

- Cooling capacity range: 28.0kW ÷ 200.0kW
- Refrigerant: R410A, R407c, R22
- Compressor: scroll type

Product Features:

1. Energy efficient and durable use
2. Low noise
3. Many systems design, wide capacity control.
4. High efficiency condensor
5. Easy to install
6. Easy operation and complete control.
7. Maintenance convenience

Note: The machine mentioned above is standard unit, customized product is available.
We've a lot of solutions to care "Industries"
R134a Heat Pump Heat Pumps with High Temperature (90℃ hot water)

W01R1-20IHT÷W01R1-80IHT
- Heating capacity range: 20.6kW ÷ 81.2kW
- Compressor: DC Inverter type
- Refrigerant: R134a

Withair flexible high temperature DC inverter heat pump water heater unit with double compressors to producing hot water by two stage cascading operation. Best combination between the R410A excellent low-temperature characteristics and R134a high temperature properties.

The first stage equip MITSUBISHI R410A DC inverter compressor variable speed operation, following the different running conditions and the ambient temperature, let the first stage provides a stable condition for the second stage compression, then the second R134a compressor to achieve 90℃ hot water. Outlet hot water temperature can set from 55℃~90℃ as user requirement, so it is widely using home radiator heating by 65℃, 75℃, 85℃ or 90℃ hot water for industry heating use --like a factory, textile, printing, and dyeing, military industry, steam line, ironing, explosive, medicine high-temperature sterilization line, oil drilling and so on. Suitable for high temperature hot water project and cold area heating project.

The scope of application: high temperature heat pump water heater can meet the heating demand of agricultural and sideline products processing industry, beverage processing industry, electroplating dyeing industry, textile printing and dyeing industry, drying industry, disinfection, oil drilling and so on.
**CO₂(R744) Heat Pumps with High Temperature (55~90°C hot water)**

W01R1-5CO₂÷W01R1-140CO₂
- Heating capacity range: 4.9kW ÷ 139.7kW
- Compressor: Inverter type / Piston type
- Refrigerant: CO₂

**Water to Water Heat Pumps with High Temperature (68~123°C hot water)**

W01R2-200H3÷W01R2-1400H3
- Heating capacity range: 200.00kW ÷ 1400.00kW
- Compressor: screw type
- Refrigerant: R134a, R245fa
Withair® Duplex Status Water Cooled Screw Chiller is equipped with newly-developed semi-hermetic screw compressors and use dry type or flooded type evaporator, which result in lower noise and lower vibration, reliable long period operation, and installation feasibility on any floor of the building. The units are provide cooling capacity by air conditioning working condition and ice-storage working condition during day and night. Optimized system design and enhanced heat exchange efficiency makes the unit working best under both full load and partial load. Every chiller is fully factory tested and gas charged in the factory before dispatch. It’s good choice for hotel, shopping mall, hospital, factory, cinema and other civil architecture air conditioning system. Besides, it is widely used in plastic industry, electroplating industry, food processing, chemical industry and other process cooling applications of modern manufacturing industries which needs a lot of chilled water. Stepless capacities can be customized. The units can be operated with the utmost simplicity.
Withair® the medium and low temperature chiller is based on this year's design of low temperature water-cooled chillers by key technicians of this company. It integrates the advanced technology of products in same category, and is a highly effective, energy saving and environment protecting fifth generation chiller designed and developed by this company. The application of advanced technology promotes the product to an international leading status. The equipment can provide -45°C~0°C medium and low temperatures and a secondary refrigerant that may be applied to any place where there is a demand for varieties of medium and low temperature cold sources. This can assist with the production process of any industry, i.e. pharmaceutical, chemistry, metallurgy, electronic and food, etc., and act as the cold source mainframe of large size refrigerators and ice stadiums.

The heat recovery products can keep water at 50°C~60°C and play a role of saving energy.
The Withair System for "Air Quality"

The Withair System
- Cooling
- Heating
- Fresh air
- Purification
- Humidification

We’ve a lot of solutions for “Air Quality”
Chilled Water Duct Concealed Type Fan Coil Unit

Product Features:

* Hydrophilic aluminum foil improves efficiency and resists corrosion.

* Highly efficient motor and centrifugal fan ensures low-noise performance.

* Available in two-pipe and four-pipe configurations.

* Aesthetic design with high-quality galvanized steel.

* Proprietary symmetric design allows pipe entrance to be installed on either side of the unit to adapt to building conditions.

2 Rows
W05F-34-2÷W05F-238-2
Air flow range:400m3/h÷2500m3/h
Cooling capacity range: 1.8kW ÷ 12.6kW
Heating capacity range: 3.4kW ÷ 18.9kW

3 Rows
W05F-3÷W05F-238-3
Air flow range:400m3/h÷2500m3/h
Cooling capacity range: 1.8kW ÷ 12.6kW
Heating capacity range: 3.4kW ÷ 18.9kW

3+1 Rows
W05F-34-3÷W05F-238-3+1
Air flow range:340m3/h÷2380m3/h
Cooling capacity range: 1.97kW ÷ 12.6kW
Heating capacity range: 1.81kW ÷ 9.45kW

Note: The machine mentioned above is standard unit, customized product is available. EC motor and or water coils as option.
**Products Overview**

**Fan Coil Unit Series** (2 pipe system and 4 pipe system as option)

### Chilled Water Ceiling Cassette Type Fan Coil Unit

- **W05F-35K÷W05F-238K**
  - Air flow range: 350m³/h ÷ 2040m³/h
  - Cooling capacity range: 2.0kW ÷ 12.1kW
  - Heating capacity range: 2.8kW ÷ 17.2kW

### Chilled Water Floor & Ceiling Suspended Type Fan Coil Unit

- **W05F-35FC÷W05F-238FC**
  - Air flow range: 340m³/h ÷ 2380m³/h
  - Cooling capacity range: 1.8kW ÷ 12.6kW
  - Heating capacity range: 2.7kW ÷ 18.9kW

Note: The machine mentioned above is standard unit, customized product is available.
Products Overview  Fan Coil Unit Series （2 pipe system and 4 pipe system as option）

Chilled Water Universal/Console Type Fan Coil Unit

W05F-35U÷W05F-238U
Air flow range: 350m³/h ÷ 2380m³/h
Cooling capacity range: 2.15kW ÷ 12.6kW
Heating capacity range: 3.46kW ÷ 20.1kW

Chilled Water High Wall Type Fan Coil Unit

W05-51W÷W05-136W
Air flow range: 510m³/h ÷ 1360m³/h
Cooling capacity range: 2.7kW ÷ 7.2kW
Heating capacity range: 4.5kW ÷ 10.8kW

Chilled Water Floor Standing Type Fan Coil Unit

W05F-140S÷W05F-480FP
Air flow range: 1400m³/h ÷ 4800m³/h
Cooling capacity range: 6.36kW ÷ 28.6kW
Heating capacity range: 9.55kW ÷ 41.8kW

Note: The machine mentioned above is standard unit, customized product is available.
Products Overview       Air Handlers Series

W05V1.5F÷W05V35F
Air flow range: 1500m³/h ÷ 35000m³/h
Cooling capacity range: 7.9kW ÷ 249.0kW
Heating capacity range: 14.7kW ÷ 439.0kW

Products Features:

* Hydrophilic aluminum foil improves efficiency and resists corrosion.

* High-efficiency, low-noise motor.

* Flexible structural design allows pipes to be connected on either side

* 4, 6, and 8-pipe configurations are available to match heating/cooling demand

Note: The machine mentioned above is standard unit, customized product is available.
WZKW(L)020÷WZKW(L)500
Air flow range: 2000m³/h ÷ 50000m³/h

Products Features:

* Unique patent Structure(patent No.ZL202020243049.7).
* Perfect sealing structure, low noise
* Advanced filter options
* Extensive coil selections
* Modulus design, convenient to assemble.
* Intelligent control
* Superior cabinet construction
* Various functional sections
* Elegant appearance and good performance of insulation

Note: The machine mentioned above is standard unit, customized product is available.
R&D Center & Manufacturing Center & Testing & Installation & Loading
No. 1 Commercial Rooftop AC Units on Production line for TESLA SHANGHAI Gigafactory 3 in China
No.2 Commercial Rooftop AC Units on Production line for TESLA SHANGHAI Gigafactory 3 in China
No.3 Commercial Rooftop AC Units on Production line for TESLA SHANGHAI Gigafactory 3 in China
No.5 Commercial Rooftop AC Units on Production line for TESLA SHANGHAI Gigafactory 3 in China
We, Providing Commercial Rooftop AC Units for TESLA SHANGHAI Gigafactory 3 in China
Quality Commitment

Withair® is committed to providing the highest value products and services to our clients. As part of this commitment, we conform to strict quality control procedures globally based on ISO 9001, ISO 14001 and OHSAS 18001. Our goal is to exceed the quality requirements set by our clients.

Withair® differentiators include our accreditations, licenses and certifications:
- Certificate for China Compulsory Product Certification (CCC) - View Certificate
- CE Certification - View Certificate
- ISO 9001, ISO 14001 and OHSAS 18001 Certifications - View Certificate
- China Certificate for Energy Conservation Product - View Certificate

Our quality commitment is met through implementation of the following general objectives:
- Thoroughly understand and meet customer’s requirements and those of relevant regulatory authorities.
- Abide by all local, state and federal laws and regulations.
- Use only reliable, properly maintained and accurate equipment.
- Apply appropriate testing standards and methods.
- Employ fully trained specialized staff.
- Keep abreast of changes in standards and available methods.
- Participate in regular independent performance audits.
- Provide authority and resources for initiation and assessment of corrective actions.

Basic unit shall be rated in accordance with ISO/ASHRAE Standards. All units shall be factory tested under normal operating conditions at nominal water flow rates to assure proper operation of all components and safety devices.

To this end, we have designated a Quality Leadership group that has the authority and resources to implement and maintain this quality plan. They will ensure that we operate under this plan at all times; at all levels of the organization, and at all locations where we perform work.
1). Compressors

2). Refrigerant accessories

3). Electric parts

Strong Cooperation & Creating Good Quality!
**CORE STRENGTHS**

**Withair® Core Strengths Include:**

**Equipment R&D** – Withair® equipment is designed by field engineers with rich experience who actually use it.

**Manufacturing** – We have three factories, manufacturing different kinds of products, and make the world’s most reliable products.

**Consulting** – With our Engineering’s well knowledge, process expertise, and rich experience, our engineers and consultants are an industry advocate to help clients solve issues.

**Vertical Integration** – Project is a complex undertaking that involves testing, system design, equipment, installation, and maintenance. Without proper coordination between those responsible for each of these tasks, a project may end in disaster. The more suppliers involved in a project the greater the complexity. Withair® provides equipment and all of the services mentioned above in one seamlessly integrated package.

**Integrated Solutions** – Withair® has the ability to not only manufacture and install systems, also to complement them with project design and technical support in one integrated solution.

**Support for Our Partners** – Partnership with Withair® is not just about selling a product, it’s a long-term relationship that will yield success for both parties. As a fully integrated company that goes above and beyond simple manufacturing, Withair® can provide its partners with all the technical support they need to become the leading players in their respective regions.

**Flexible Collaboration** – Withair® welcomes partnerships with not just dealers, but also real estate developers, banks, universities, high-tech enterprises, and more. Anyone that can contribute to and benefit from the industry is welcome to work with Withair®.

**Global Sales Network** – With numerous sales centers in Europe, Asia, Middle East, South America, and Africa, Withair®’s products can reach anywhere in the world.

**Analytical** - Specializing in the analytical needs of customer demand, Withair® understands today's sampling challenges and has the quality systems in place to provide accurate results.

*We welcome you to explore Withair® to discover opportunities for your business to get more than expected return on your investment.*
Quality Assurance

Never compromise on quality is the philosophy that has always inspired our decisions. Based on this principle, over the years we have worked towards achieving the highest possible standards.

Based on the “all-in-one” approach, every system is designed, manufactured and tested along with all the elements required for its use. Each product undergoes functional tests and checks using computerised systems.

All Withair products and systems comply with International Community safety directives. The ISO 9001 quality system is the benchmark for all our activities.

Production Process

Lean production: perfection is our benchmark.

Rational use of systems, an increase in efficiency, less warehouse stock, immediate solutions to any design errors, the elimination of waste and a decrease in costs - these are just some of the results we have achieved thanks to strict application of the principles of lean production.

Reducing time, used space, costs and errors means we are able to respond with maximum flexibility, precision and speed to any customer’s requirements, offering the best possible products at competitive prices.

Good Service

Withair offers “all-in-one” solutions that ensure minimum consumption and low environmental impact, and are even fuelled by renewable sources of energy.

Safe and easy to design, install and maintain, they represent the best solution for everyone - from franchisors to architects and from technicians to final Customers.

Accurate and prompt after-sales assistance completes the range of advantages for all those who choose Withair.
Withair® is always here to support you and care for your smart ideas!

Service support at any time
Rich experienced engineering service team
Training for customer at factory & project site
Different languages documents service

Guidance of engineering design & installation
Fast-delivery original & certified spare parts
We have Solutions to cleaning your problems
Follow up the feedback by email or call
Withair Group (China) Limited
Withair (Nanjing) Industries Co., Ltd
Cooling & Heating Solutions International Limited
Add: No.200 Lushan Road, JianYe District, Nanjing, China

www.withair.cn
info@withair.cn
Tel: + 8613915928183

Don’t Print these pages unless it is really necessary……