Water-Cooled Chillers -

A full portfolio of solutions for comfort and process applications



Withair® offers complete, factory-assembled scroll and screw compressor water cooled chiller that offer ease of installation with wiring and microprocessor controllers providing maximum operating efficiency. Withair® chillers install easily and quickly into most building layouts, making them ideal choices for retrofit or new building designs.

Withair® Water-Cooled Chiller Solutions help meet your efficiency needs with the wider variety of water-cooled industrial and commercial chillers on the market. From reducing your facility's carbon footprint, to cutting operating costs, our energy-efficient chillers are tailored to fit almost any application.

Withair® Water-Cooled Chiller 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 refrigerant charged in the factory before dispatch. It' s good choice for hotel, shopping mall, hospital, factory, cinema and other buildings air conditioning system. Besides, it is widely used in plastic industry, electroplating industry, food processing, chemical industry, pharmaceutical industry and other process cooling applications of modern manufacturing industries which needs a lot of chilled . The units can be operated with the utmost simplicity.

Whatever interior comfort, Low-temperature process cooling, advanced and specialized applications, for so many customers and their buildings, Withair® chillers are more than a refreshingly different choice.

Cut energy consumption and emissions by Withair® Chilled Water Systems !

Small Capacity Water-Cooled Scroll Chillers

Capacity	Model & Description

8 to 140 kW
2 to 40 tons



Model W02C2 series
Refrigerant: R-410A, R-454B
Compressor: Hermetic Scroll
Power supply: 50 and 60 Hz
Ideal applications: Comfort and process cooling; Glycol chilling; Heat pumps; Heat recovery sites; Industrial cooling; Data centers.
Unique features: Smart control; Multi-protections; One-key startup; Automatic intelligent reset; Brazed plate heat-exchanger; Easy serviceability; Robust reliability; Easy to install; BAS communications.
Factory-installed options: Hydronic pump kit; Heat recovery; Double-pipe heat exchanger; Expansion tank; Safety valve; Vibration Isolators; Anti-corrosion; Sound-reduction packages, etc.

Overview

Withair® is proud to offer an extensive line of **Water-Cooled Mini Chillers** ranging from 2 to 40 tons. The water-cooled mini chillers featured a variety of models and options engineered to fit a wide range of applications. Withair® Water-Cooled Mini Chillers are ideal for customers who are focused on high energy efficiency, superior reliability and long equipment life.

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72 to 280 kW
20 to 80 tons



Model W02C2 series
Refrigerant: R-410A, R-454B
Compressor: Hermetic Scroll
Power supply: 50 and 60 Hz
Ideal applications: Comfort and process cooling; Glycol chilling; Heat pumps; Heat recovery sites; Industrial cooling; Data centers.
Unique features: Smart control; Multi-protections; One-key startup; Automatic intelligent reset; BAS communications; Robust reliability; Easy layout; Shell & tube heat-exchanger; Modular network functions.
Factory-installed options: Hydronic pump kit; Heat recovery; Flow switch; Metallic filter; Expansion tank; Safety valve; Vibration Isolators; Anti-corrosion; Sound-reduction packages, etc.

Overview

Withair® **Modular Water-Cooled Chillers** are complete factory- assembled units designed for a wide range of comfort and process cooling applications, and can be easily combined to meet higher capacity demands and are easy to install in most building layouts. This makes them the ideal choice for retrofit or new building designs where reliability, serviceability, high efficiency, flexibility, and expandability are critical.

Water-Cooled Screw Chillers

Capacity	Model & Description

116 to 3,253 kW
33 to 930 tons



Model W02C2-S series
Refrigerant: R-134a, R-513A
Compressor: Semi-hermetic Screw
Power supply: 50 and 60 Hz
Ideal applications: Comfort and district cooling; Glycol chilling; Heat pumps; Heat recovery sites; Process/industrial cooling; Data centers.
Unique features: Siemens PLC control system; BAS communications; Shell and tube condenser; DX evaporator; Capacity turndown to 10 percent load; Microprocessor control center touch-screen; Easy serviceability; Great flexibility; Robust reliability; Heat pump to 85℃.
Factory-installed options: Heat recovery; Ice storage; Hybrid falling film evaporator; Vibration Isolators; Economizer; Strainer; Electrostatic coating; Hydronic pump kit; Anti-corrosion; Sound-reduction packages.

Overview

Withair® W02C2-S series **Water-Cooled Screw Chillers** are designed for all the conveniences of chilled water, air-conditioning systems, from reducing your facility's carbon footprint, to cutting operating costs, our energy-efficient chillers are tailored to fit almost any application. especially for hotels, stores, hospitals and process cooling applications of modern manufacturing industries.

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116 to 3,253 kW
33 to 930 tons



Model W02C1-SV series
Refrigerant: R-134a, R-513A
Compressor: VSD Semi-hermetic Screw
Power supply: 50 and 60 Hz
Ideal applications: Comfort and district cooling; Glycol chilling; Heat pumps; Heat recovery sites; Process/industrial cooling; Data centers.
Unique features: Variable speed drive; Shell and tube condenser; Variable flow rate; Siemens PLC control system; Superior performance; BAS communications; High precision of temperature control; Easy serviceability; Great flexibility; Robust reliability; Heat pump to 85℃.
Factory-installed options: VSD hydronic pump kit; Heat recovery; Ice storage; Hybrid falling film evaporator; Vibration Isolators; Economizer; Strainer; Electrostatic coating; Anti-corrosion; Sound-reduction packages;

Overview

You need a chiller that delivers reliable cooling performance — and offers the capacity, energy efficiency and lasting value your unique application requires. This is why you need a Withair® W02C2-SV series **Water-Cooled VSD Screw Chiller**. Designed for faster, easier installations, the chillers can immediately add value to new and retrofit projects. That value continues over long lifetimes, with very low maintenance requirements and enhanced energy-efficiency options that can significantly reduce operating costs.

Medium/Low/Ultra-low Temp. Water-Cooled Screw Chillers

Capacity	Model & Description

58 to 2,262 kW
16 to 650 tons



Model W02C2-ML series
Refrigerant: R-404A, R-507A
Compressor: Semi-hermetic Screw
Power supply: 50 and 60 Hz
Ideal applications: Process/industrial cooling; Heat recovery sites.
Unique features: BAS communications; Shell and tube condenser; DX evaporator; Solution spray technology; Y-△ startup; Heat recovery technology for waste heat utilization; Siemens PLC control technology; Oil separator; Easy serviceability; Great flexibility; Robust reliability.
Factory-installed options: Heat recovery; Ice storage; Hybrid falling film evaporator; Vibration Isolators; Economizer; Strainer; Electrostatic coating; Hydronic pump kit; Anti-corrosion; Sound-reduction packages;

Overview

Withair® **Medium and Low Temperature Water-Cooled Screw Chiller** is a highly effective, energy saving and environment protection of the fifth generation chiller. The chiller can provide -45℃~0℃ 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 of large size refrigerators and ice stadiums.

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65 to 657 kW
20 to 190 tons



Model W02C1-UL series
Refrigerant: R-134a, R-513A, R404A
Compressor: Semi-hermetic Screw
Power supply: 50 and 60 Hz
Ideal applications: Process/industrial cooling; Heat recovery sites.
Unique features: BAS communications; Shell and tube condenser; DX evaporator; Siemens PLC control system; Superior performance.
Factory-installed options: Hydronic pump kit; Heat recovery; Hybrid falling film evaporator; Vibration Isolators; Anti-corrosion; Integrated waterside economizer; Evaporator inlet strainer; Electrostatic coating; Sound-reduction packages,etc.

Overview

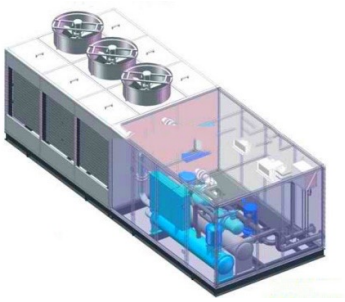
Withair® next generation of **Low Temperature/ Ultralow Temperature Screw Chiller** integrated the advanced technology with high efficiency, energy-saving, environmental protection and high reliability. Chillers provide -35℃(-31℉) to -145℃(-229℉) low temperature fluid (brine, alcohols). This series of products can meet the needs of the following different processes:

* Pharmaceutical and chemical industries;
* Low temperature quenching in the metal heat treatment industry;
* Low temperature test chamber for parts and components test;
* Low temperature recovery of oil and gas in petrochemical industry;
* Ultra-low temperature processing and storage in the food industry;
* Cryogenic weapon storage in the military industry;
* Other related places with low temperature/ultra-low temperature requirements.

Integrated Water Chillers

Capacity	Model & Description

70 to 1,756 kW
20 to 500 tons



Model W02C2-IEC series
Refrigerant: R-134a, R-513A
Compressor: Semi-hermetic Screw
Power supply: 50 and 60 Hz
Ideal applications: Comfort/process cooling; Heat recovery sites.
Unique features: Superior performance(up to 48% energy saving, water consumption dropped by 86%); Zero engineering design; Lowering installation costs; No need foundation and machine room; Compact design and smaller footprint; Suitable for any conditions.
Factory-installed options: Heat recovery; Ice storage; Hybrid falling film evaporator; Vibration Isolators; Economizer; Strainer; Electrostatic coating; Anti-corrosion; Sound-reduction packages, etc;

Overview

Withair® **Integrated Evaporative Cooling Water Chiller** integrates water chiller unit, cooling tower, cooling water pump, chilled water pump, expansion tank, and control system. After being debugged properly in factory and then delivered, the product needs no special machine room, which helps simplify the design for air conditioning or the refrigeration system engineering. Quick installation and easy to use. It is suitable for the cooling places such as hotels, shopping malls, cinemas, restaurants, restaurants, entertainment places, offices and so on. Also for chemical plants, pharmaceutical factories, electronic factories and other process cold source systems.

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28 to 200 kW
8 to 58 tons



Model W02C2-DY series
Refrigerant: R-410A, R-454B
Compressor: Hermetic Scroll
Power supply: 50 and 60 Hz
Ideal applications: Comfort cooling; Data centers.
Unique features: Shell & tube heat-exchanger; One-key startup; Microcomputer control; Easy serviceability; Two layers of filtration; Great flexibility; Robust reliability; Multiple protection functions; Intelligent energy management technology.
Factory-installed options: Hydraulic module; Heat recovery; Flow switch; Metallic filter; Auxiliary electrical heating; Two types discharge air outlet: top discharge air and side discharge air; Anti-corrosion; Sound-reduction packages, etc;

Overview

Withair® indoor **Water-cooled Packaged Unit** is designed for vertical installation, a variety of airflow configurations, and cooling only operation. These units provide a versatile and economical approach to comfort conditioning requirements in replacement, renovation, and new construction applications. With a small footprint and quiet operation, a cost-effective stand-alone cooling system permits installation anywhere in the building eliminating the need for an equipment room. the systems provide ultimate flexibility, efficiency, affordability, quiet and control. Just select the best cooling source for your system, whether air, water or remote-cooled, and enjoy the energy savings that come with highly efficient advanced scroll technology.

Benefits At A Glance

The industrial-grade design of the Withair® Water-Cooled Water Chiller is ideal for both industrial and commercial markets, in applications such as office buildings, hospitals, schools, retail buildings, and industrial facilities. The latest advanced compressor, wide operating temperature range, advanced controls, electronic expansion valve, and high efficiencies mean that chiller is the perfect choice for tight temperature control in almost any application temperatures, and under widely varying loads.

For Building Owners and Managers

- Quiet operation
- Easy to maintain
- Reliable operation
- Reduces operating expenses
- Environmentally sound refrigerant
- Building automation system compatible

For Consulting Engineers

- HFC refrigerants
- High-efficiency optimization
- Ideal for replacement projects
- Compliant local code requirements
- Quick response technical support services

For Contractors

- Compact footprint
- Diagnostic controls
- Easy to break down
- Ideal for replacement
- Reliable performance
- Reduces installation expenses

Premium manufacturer in HVACR products
for Heating,Cooling and Indoor Air Quality.

Learn more at www.withairgroup.com
or follow us info@withairgroup.com

About Withair ®

Withair® is the premium manufacturer in sustainable energy solutions supplying HVACR products & services for heating, cooling, hot water, indoor air quality, industrial refrigeration, and heat recovery that reflect today's demand for sustainable construction, comfortable indoor climate and industrial cooling & heating process application.

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