

The Energy Solutions of Withair Chillers Catalogue 2017



Take Control of Your Energy Future !

Withair offers a wide range of clean energy products and solutions to meet the needs of your projects.



Ongoing innovation with cutting-edge products



Over 20 years of experience



Production 100% Made in China



Guaranteed support and spare parts



Support in design



Documentation for incentives



Two-year guarantee



Free training course

About Withair

Withair® is one leading manufacturer in sustainable energy solutions supplying HVACR products & services for cooling, heating, hot water, ventilation, industrial refrigeration and heat recovery that reflect today's demand for sustainable construction, comfortable indoor climate and industrial cooling process application. and specialize in heating & cooling system, air quality system and new energy development and utilization,now it has three factories,manufacturing different kinds of products, and committed to providing the first-class products & system solutions for customers.

At Withair®, our aim is to support the growth, profit, and sustainability goals of our clients by delivering innovative solutions with n x value.we gain a deep understanding of our client's needs and business objectives first and foremost by gaining and leveraging our technical knowledge, innovative thinking, and vast equipment resources. from heating & cooling solutions and air quality management,to energy performance and efficiency determination,Withair® delivers the results.

Withair® operates in a strongly impacting sector in the energy field, and its primary objectives include committing resources to continuous technological research and improvement of production processes, with the aim of streamlining products and raise users' awareness on the actual soundness of ensuing energy savings.

Withair® products & solutions combine utmost efficiency with minimum energy consumption and strict respect of the environment, the idea proved to be a winning one in just a few years, Withair® became the leader in the sector !



Low energy consumption systems

Use of clean energy

Use of environmentally-friendly cooling gases

ZERO direct CO2 emissions in the environment

CHILLERS - MINIMIZE YOUR OPERATING COSTS

Withair® chillers were developed based on decades of knowledge and rich experience, includes air-cooled chillers and water-cooled chillers, ranging in capacities from 2 to 1,000+ tons. Withair® chillers are relied upon for both comfort and special process cooling applications in every corner of the world.

Withair® chiller plays a critical role in creating the right environment to ensure the health, comfort and industrial production. Withair® chillers not only serve HVACR systems and industry-type process cooling at factories that deliver the right temperature for the space, but they also help minimize operating costs with superior energy efficiency levels, low sound levels and with minimal environmental impact.

Withair® air-cooled chillers can reduce your total cost of ownership because they are engineering for lower life cycle costs, efficiency and reliability through design simplicity. our optimized compressor parts profiles are designed specifically for chilled water applications to optimize full- and part-load efficiency. Withair® self-adapting control Microprocessor provides greater reliability and energy management through a proactive control strategy, safety functions with simple diagnostics and friendly interface.

Modular Scroll Compressor Air Cooled Water Chiller



Modular Scroll Compressor Air Cooled Water Chiller

— Product Description —

Withair® offers a variety of Air-Cooled Modular Chillers for a wide range of comfort and process cooling applications and also offers complete, factory-assembled scroll liquid chillers that offer ease of installation with wiring and microprocessor controllers providing maximum operating efficiency. Our compact chillers install easily and quickly into most building layouts, making them ideal choices for retrofit or new building designs.

Withair® Air-Cooled Modular Chiller Unit is a kind of central air conditioner which adopts air as the cooling(heating)source and water as cooling(heating) medium. WithAir® offer quiet, reliable, energy efficient equipment. These units incorporate high quality compressors, state-of-the-art coil design, and innovative packaging. As a sort of integrated equipment, it needs no cooling tower,cooling water pump,boiler and correspoding auxiliary parts, which makes the system more simple,saves installation space, convenient maintenance and energy saving, thus it is very suitable for areas that are short of water.several modules can be formed in to a air-cooled chiller module unit by connecting each module's inlet & outlet pipeline in parallel. the whole unit consists of 1~16moduiles and the max.capacity is 3200kW.

Withair® Air-Cooled Modular Chiller Unit can be widely applied to civilian projects and industrial projects,such as hotel, villa,restaurant, hostital, factory,etc,. it is a wise choice for areas fpr areas where water is insufficient or therre are strict limits on noise level and surroudings.

— The Key Advantages Include —

- ECO friendly refrigerant R410A,R407C.
- Built-in hydraulic module for option.
- Intelligent defrost totally.
- Multi self-protection functions, such as: high & low pressure, high temperature, water flow and antifreeze protection.
- Modular networking technology, the operation of individual modules can be coordinated according demand.
- Advanced & world-famous hermetic scroll compressor high-efficiency, low-noise and low-vibration operation.
- Standalone subsystems enable maintenance of individual subsystems without affecting the continued operation of the rest.
- Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.
- Uses 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.
- Using modular networking technology, the operation of individual modules can be coordinated according demand.
- Standalone subsystems enable maintenance of individual subsystems without affecting the continued operation of the rest.
- Unique heat exchanger protection technology, increases heat exchange efficiency to 30% above that of conventional heat exchangers.

— Technical Data —

Model		W02C1-68	W02C1-90	W02C1-102	W02C1-136	W02C1-200	
Nominal cooling capacity		kW	68	90	102	136	200
Power supply		V/Ph/Hz	380/3/50				
Compressor	Type	Hermetic scroll compressor					
	Brand	Hitachi, Panasonic, Copeland					
	Quantity	4	6	6	6	6	
	Power	kW	22	29.75	33.05	40.6	65.6
Safe protection device		High/low pressure switch, overload protection, counter clock wise and short phase protection (power phases sequence protection), lack water (water-flow switch), anti-freeze protection, ect					
Air side (Condenser)		Type	High efficiency finned tube heat exchanger				
Water side (Evaporator)	Type	High efficiency shell-and-tube heat exchanger					
	Water flow	m ³ /h	11.7	15.5	17.5	21.4	33.5
	Water pressure drop	kPa	40-60				
	Max. pressure drop	kPa	1.0Mpa				
Dimension	Length	mm	2065	3000	3000	3216	2650
	Width	mm	1030	1030	1030	2156	2050
	Height	mm	1974	1820	2062	2156	2230
Noise		dB(A)	65	67	69	71	73
Refrigerant	Type	R410A					
	Charging rate	kg	3.8×4	6×4	3.8×6	4.5×6	6×7
Net weight		kg	840	1200	1350	1480	2120
Entering/leaving water pipe			DN65	DN65	DN65	DN65	DN80
Entering/leaving water pipe			DN65	DN65	DN65	DN65	DN80

Notes:

- Standard cooling work condition: entering chilled water temperature 12°C, leaving temperature 7°C; dry bulb temperature 35°C, wet bulb temperature 24°C.
- As an optional function, heat recovery for domestic hot water is available, maximum heat recovery rate: 40%.
- Units can realize 1~16 unit's modular connection and control energy-regulation automatically.
- All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications

— Delivery & Packaging —

- 100% test before delivering products.
- Products catalogue, installation & operation manual will be sent together.
- Tracking number will be sent to customer as soon as we ship the products.
- Item shipped in 25 working days against payment depends on the quantity.
- Four steps of packages, plastic film, foam, carton and plywood for stable transportation.
- Ocean shipping, railway shipment and air transportation are acceptable according to customer demand.

— You May Like —



Air Cooled Water Chiller



Fan Coil Unit



Hydraulic Module



Hydraulic balance distributor



Insulation pipe



Thermostat

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Withair, your perfect partner for successful projects.



01/2017 - The technical data in this document are not binding.

Withair reserves the right to introduce at any time whatever modifications deemed necessary for improving the product.



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