

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

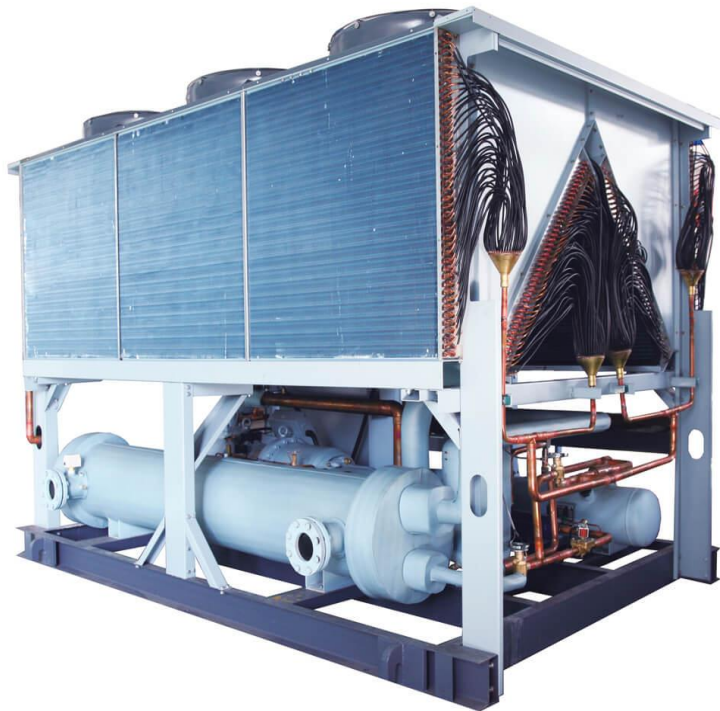
CHILLERS - MINIMIZE YOUR OPERATING COSTS

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.

Screw Compressor Air Cooled Water Chillers



Screw Compressor Air Cooled Water Chillers

— Product Description —

Withair® offers a variety of Air-Cooled Screw Chiller 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 Screw Chiller adopts twin-screw compressor designed with the most advanced, industrial third-generation asymmetric technology of 5 gear teeth to 6 gear teeth. It has a variable capacity, and is high-efficiency and energy-saving. It has the humanistic microcomputer control system with remote control function. The 3self-protection features ensure the safe and reliable running. The unit series is complete and can be tailored to meet various needs of customers. The Air-cooled Screw Chiller features of compact size, low noise high energy-efficiency ratio and long service life, and is easy to operate and maintain. Thus they find a wide utilization in a great variety of locations, such as hotels, restaurants, office buildings, stores and hospitals. And they are also applicable to the air conditioning sites in metallurgical, chemical, mechanical, and electronic industries. Withair® Air-cooled Screw Chiller can be applied to civil construction of air conditioning projects and industrial projects, such as hotel, shopping mall, restaurant, hospital, factory, etc. It is a wise choice for areas where water is insufficient or there are strict limits on noise level and surroundings.

— 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		W02C1-200S	W02C1-300	W02C1-520	W02C1-720	W02C1-900	W02C1-1080	W02C1-1300	W02C1-1510	
Nominal cooling capacity		kW	200	300	520	720	900	1080	1300	1510
Power supply		V/Ph/Hz	380/3/50							
Compressor	Type	Screw type								
	Brand	Hanbell, RefComp, Danfoss								
	Input power	kW	61.1	86.7	150	210	260	316	378	421
Safe Protection Device		High/low pressure switch,overload protection,counter clockWise and short phase protection (power phases sequence protection),lack water(water-flow switch),anti-freeze protection,ect								
Energy Control		%	0-25-50-75-100							
Fan motor	Quantity		4	6	8	12	18	18	24	24
	Single power	kPa	1.56	1.56	2.23	2.23	1.56	2.23	2.1	2.08
Air side heat exchanger		Type	High efficiency finned tube heat exchanger							
Water side heat exchanger	Type	High efficiency shell and tube								
	Water flow	m³/h	34	51	89	123	154	185	223	247
	Water resistance	kPa	48	55	44	52	44	48	44	48
	Pipe size	DN	100							
Dimension	Length	mm	2300	3300	5400	7200	9900	10800	13400	14400
	Width	mm	2140	2140	2140	2140	2140	2140	2140	2140
	Height	mm	2500	2500	2500	2500	2500	2500	2500	2500
Noise		dB(A)	73	75	75	79	78	79	78	79
Unit weight		kg	2750	3750	6200	8600	11250	12900	16000	17200
Working weight		kg	3000	4050	6700	9500	12150	14250	17400	19000

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.
- PLC control system and touch-screen user interface simplifies operation.
- 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 —



Screw Compressor 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.



Withair Group (China) Limited
Withair (Nanjing) Industries Co.,Ltd
No.200 Lushan Road,Jianye District,Nanjing,210019,China.
Tel: +86 139 159 28183 - Fax: +86 25 86696286
E-mail: info@withairmall.com
Website: www.withairmall.com

Please follow our social networks.