

The Energy Solutions of Withair Heat Pumps 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

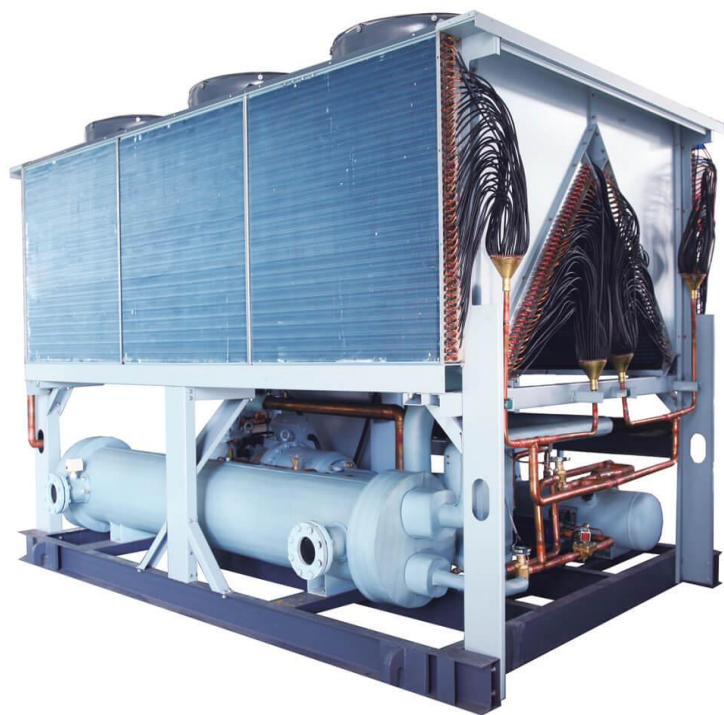
ZERO direct CO2 emissions in the environment

HEAT PUMPS - CREATING A MORE COMFORTABLE & SUSTAINABLE BUILDING ENVIRONMENT

By installing a Withair® heat pump, you can reduce your energy consumption costs by up to 86% compared to direct electricity. Here we are using the nature's free and renewable energy sources, such as: outdoor air, geothermal energy, solar energy, that minimises your CO2 emissions and pollution free. You can also enjoy an environmentally friendly, renewable and free energy source. The high level of efficiency means that an investment in a heat pump pays for itself quickly and gives you a secure supply of heat, cool and hot water, suitable for different climate all over the world.

Withair® the W01R series heat pumps involve a range of 282 models, with heating and cooling capacity among 2.6kW and 3,200kW, which allow to create "customized" solution, matching the different installations requests.

Air Cooled Screw Heat Pumps



Air Cooled Screw Heat Pumps

— Product Description —

Withair® offers a variety of Air-Cooled Screw Heat Pump 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 Heat Pump 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 Heat Pump 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		W01R1-200S	W01R1-300S	W01R1-520S	W01R1-720S	W01R1-900S	W01R1-1080S	W01R1-1300S	W01R1-1500S	
Nominal cooling capacity	kW	200	300	520	720	900	1080	1300	1510	
Nominal heating capacity	kW	220	330	572	792	990	1188	1430	1684	
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 clock wise 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	m ³ /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:

1. Standard cooling work condition: entering chilled water temperature 12°C, leaving temperature 7°C; dry bulb temperature 35°C, wet bulb temperature 24°C.
2. Standard heating work condition: entering hot water temperature 40°C, leaving temperature 45°C; dry bulb temperature 7°C, wet bulb temperature 6°C.
3. PLC control system and touch-screen user interface simplifies operation.
4. 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 Heat Pump

+



Fan Coil Unit

+



Hydraulic Module

+



Hydraulic balance distributor

+



Insulation pipe

+



Thermostat

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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