

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.

Cold Climate Air Source Heat Pump Water Heater



Cold Climate Air Source Heat Pump Water Heater

— Product Description —

Withair® EVI Heat Pump is specially designed for cold climate region and adopts Ultra low temperature Enhanced Vapour Injection(EVI) compressor technology to guarantee a stable running even at -25°C. EVI heat Pump solve the client's room heating and hot water supply during the very cold climate region. (EVI compressor - enhanced vapor injection, Vapor-injected method can effectively improve heat capacity, prevent higher discharge temperature of compressor and guarantee operating stability of unit at low temperature).

Withair® EVI heat pump is one of the most economical systems to heat the water for family domestic use. Using free renewable energy from the air, the unit is highly efficient with low running costs. Its efficiency can be up to 3~4 times more than conventional gas boiler or electrical heater.

— The Key Advantages Include —

- Eco-friendly refrigerant: R407c.
- Applied range: sanitary hot water, floor heating.
- Enhanced vapor injection Copeland brand compressor.
- Operate normally in - 30°C, and hot water 50°C.
- Two speed fan motor: further improve unit operation under high ambient temperature.
- Electronic expansion valve regulates the flow of refrigerant precisely.
- Heat-exchanger cycle technology to further improve operation under low ambient temperature.
- Air exchanger(Fins-coil) with hydrophilic coating.
- Galvanized plate shell, powder coating.
- LCD display wire controller.
- Set the operating time freely.
- Unit runs or stop automatically according to water temperature.
- Control the auxiliary heating (e.g. electric heating).
- With hot water return control, to keep the water warm in supplying pipe.
- Water Level Display and can be set freely("M" model).
- Available in combination with the solar collector and control automatically, saving more energy.
- Water flow protection control.
- Automatic prevent freezing function in the winter.
- Automatic defrosting.
- Failure diagnosing function.
- Modular design, units combine freely.

— Technical Data —

Model		W01R1-12J1P	W01R1-18J2PM	W01R1-36J2P	W01R1-72J2P	
Power supply	V/Ph/Hz	220-240/1/50	380/3/50			
COP at outdoor temperature.of -15	W/W	2.25	2.11	2.34	2.35	
Hot water	Heating capacity	kW	12	18	36	72
	Rated power input	kW	2.8	4.2	8.2	16.5
	Hot water output	L/h	257	390	770	1550
Floor heating	Heating capacity	kW	9.5	15	30	60
	Rated power input	kW	2.45	3.8	7.6	15.5
Water flow	m ³ /h	2.3	3.4	6.8	13.5	
Hot water temperature	°C	20~60				
Compressor type		Ultra low temperature Enhanced Vapour Injection(EVI) scroll compressor				
Refrigerant		R407C				
Noise	dB(A)	58	58	64	66	
Net weight	kg	102	130	310	720	
Unit dimensions (L×W×H)	mm	960×340×1260		1390×740×1640	2025×1030×1995	
Packing dimensions (L×W×H)	mm	1100×480×1350		1490×790×1800	2130×1075×2080	
Stacking layers	layer	1	1	1	1	
Water pipe connector	mm	DN25(1")	DN25(1")	DN40(1-1/2")	DN65(2-1/2")	
Ambient condition	°C	-30~43				
Water side exchanger		Tube in tube	Tube in tube	Tube in tube	Tube in tube	
Water flow switch		accessory	accessory	build in	build in	
Picture of appearance		Picture 1		Picture 2	Picture 3	
Auxiliary heating control function		Yes	Yes	Yes	Yes	
Water return control function		Yes	Yes	Yes	Yes	
Water level control function		No	Yes	Yes	Yes	
Water level display function		No	Yes	Yes	Yes	
Modular control function		No	Yes	Yes	Yes	
Combined with solar collector		Yes	No	No	No	

Notes:

- Standard hot water work condition: entering water temperature 15°C, leaving temperature 55°C; dry bulb temperature 20°C, wet bulb temperature 15°C.
- Standard floor heating work condition: entering water temperature 30°C, leaving temperature 35°C; dry bulb temperature 7°C, wet bulb temperature 6°C.
- Units working ambient range from -25°C to 45°C.
- 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 —



Heat Pump Water Heater



+ Water Tank +



+ Hydraulic Module +



+ 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.



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.