

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.

Inverter Air Source Heat Pump Water Heater



Inverter Air Source Heat Pump Water Heater

— Product Description —

Withair® DC Inverter Heat Pump is a very intelligent heat pump system with flexible capacity output. It could adjust heating capacity output automatically according to requirements. It is much more energy-saving with a long lifespan.

Withair® DC Inverter Heat Pump provides energy-efficient room heating and domestic hot water for residential and small commercial application. Using free renewable energy from the air, the units are highly efficient with low running costs, low carbon emission and are able to be integrated with energy systems such as solar heater and boiler.

— The Key Advantages Include —

- ECO friendly refrigerant R410A, R407C.
- Running ambient range from -25°C to 43°C.
- DC inverter technology to sure heating capacity “0” loss when ambient temperature > -15°C.
- 10~120rps inverter technology to fast higher water temp. as room load (accordingly suddenly cold weather).
- Intelligent defrost totally.
- Digital LED display pressure: built-in high & low pressure sensor.
- Built-in hydraulic module for option.
- 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.
- Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.
- Advanced & world-famous inverter 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.
- 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 —

DC Inverter Heat Pump Water Heater with 55°C Domestic Hot Water Output

Model		W01R-12IWH	W01R-20IWH	W01R-30IWH	W01R-36IWH	
Rated heating capacity	kW	12.0	19.5	29.6	36.8.0	
Rated hot water output	l/h	255	390	620	780	
Rated input power	kW	2.4	3.8	6	7.3	
Hot water temperature range	°C	20°C~55°C				
Working ambient temperature	°C	-25°C~43°C				
Power supply	V/Ph/Hz	380V/50Hz				
Refrigerant		R410A				
Compressor		Scroll MITSUBISHI DC inverter compressor				
Controller system		HITACHI DCBL controller				
Throttle way		Electronic expansion valve				
Fan motor		Brushless DC Motor				
Pressure device		Built-in high and low pressure sensor				
Electronic Component		Schneider AC contactor				
Air side heat exchanger		Hydrophilic aluminum fin coils heat exchanger				
Water side heat exchanger		Efficiency plate heat exchanger				
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				
Noise	dB(A)	51	52	54	57	
Connecting pipe size	Inch	Rc1"	Rc1"	Rc1-1/4"	Rc1-1/2"	
Dimension	Length	mm	1050	1050	950	950
	Width	mm	450	450	820	820
	Height	mm	900	1400	1700	1700
Weight	Net weight	kg	109	124	235	275
	Gross weight	kg	121	145	266	327

Notes:

- 1.Standard heating work condition: initial entering hot water temperature 40°C,leaving temperature 45°C; dry bulb temperature 20°C,wet bulb temperature 15°C.
- 2.All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications

DC Inverter Heat Pump Water Heater with 90°C Domestic Hot Water Output

Model			W01R-12IWHS	W01R-20IWHS	W01R-40IWHS
Rated heating capacity		kW	12	20	40.5
Rated hot water output		l/h	150	240	480
Rated input power		kW	3.9	6.5	12.3
Hot water temperature range		°C	20°C~90°C		
Working ambient temperature		°C	-25°C~43°C		
Power supply		V/Ph/Hz	380V/50Hz		
Refrigerant			First stage:R410a, Second stage:R134a		
Compressor	First stage		Scroll MITSUBISHI DC inverter compressor		
	Second stage		R134a high temperature compressor		
Heat exchange	Refrigerant-refrigerant		316L coupling high efficient plate heat exchanger		
	Water side		316L high efficient plate heat exchanger		
Controller system			HITACHI DCBL controller		
Throttle way			Electronic expansion valve		
Fan motor			Brushless DC Motor		
Pressure device			Built-in high and low pressure sensor		
Electronic Component			Schneider AC contactor		
Air side heat exchanger			Hydrophilic aluminum fin coils heat exchanger		
Water side heat exchanger			Efficiency plate heat exchanger		
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		
Noise		dB(A)	51	52	54
Connecting pipe size		Inch	Rc1"	Rc1"	Rc1-1/2"
Dimension	Length	mm	1150	1150	1400
	Width	mm	580	580	610
	Height	mm	1600	1600	2100
Weight	Net weight	kg	130	164	282
	Gross weight	kg	159	197	332

Notes:

- 1.Standard heating work condition: initial entering hot water temperature 40°C,leaving temperature 45°C; dry bulb temperature 20°C,wet bulb temperature 15°C.
- 2.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 —



DC Inverter Heat Pump

+



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

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