

**The Energy Solutions of
Withair Greenhouse Air Conditioning 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

Greenhouse Air Conditioning

Air Conditioning system for Greenhouses, such as: Mushroom, Vegetables, Fruits Cold Storage, Flower etc.

Rightly according to this demand of modern agricultural development, Withair® put forward geothermal air-conditioning system which is widely applied in scaled agriculture, meeting the need of all-year-round, all-day and off-season producing.

Using underground water or underground pipe, air-conditioning system apply shallow ground heat energy in modern planting. For the steady performance, reliability and low operating cost, it is greatly reputed by customers. Using groundwater, with the simulated designing concept of independent double system, quartic system and other multi-system, Withair® geothermal Agricultural Artificial Environment Air Conditioning system fully takes the demand for temperature, humidity and percentage of CO₂ of Agricultural's growth into consideration. The air temperature, humidity and content of CO₂ is real-time supervised. Via modifying the operating frequency of fan unit, fresh air can be offered, thus to reach the excellent load match.

Mushroom Air Conditioning



Mushroom Air Conditioning

— Product Description —

Rightly according to this demand of modern agricultural development, Withair® put forward geothermal air-conditioning system which is widely applied in scaled agriculture for greenhouses, such as: Mushroom, Vegetables, Fruits Cold Storage, Flower etc., meeting the need of all-year-round, all-day and off-season producing.

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— The Key Advantages Include —

- ECO friendly refrigerant R410a, R407c.
- Shell and tube heat exchanger for high performance, reliability, and resistance to freezing.
- Adopting geothermal energy makes the efficient ratio reaches above 4.0, saving 30% comparing to using air energy.
- Equipped with hot water coil, groundwater may precool/preheat the air in summer/winter in order to improve the air quality and to effectively save energy by reducing units operation.
- Unique compressor anti-vibration technology (patent ZL 2020 2 0246589.1) and sound attenuation material ensure ultra-quiet performance.
- Multi-system design and wear-and-tear management technology reduces electric impulse and extend service life.
- Modular network function: unit control system is equipped with the network communication, the user can control operating units quantity according to the actual use load, make user side water system utilities, to realize the automatic device management automation and energy management.
- Smart microchip control and large LCD user interface, capable of one-key startup.
- Automatic intelligent reset. Unit shall automatically restart 5 minutes after shutdown if the fault has cleared. Should a fault occur 3 times sequentially, then lockout will occur.
- Humanized design, widened application scope: the unit's temperature settings for room, hot water, water intake/outlet, freeze protection, and compressor exhaust can be adjusted on-site according to environmental conditions.
- Communication adapter connection the unit to BMS (Building Management System) is an optional accessory, please get in touch with us or our distributor if required.
- Unit with multi-protection to guarantee the unit running stability and security, such as: high/low voltage, low oil level protection, exhaust temperature, antifreeze, power lack/reverse phase, water system cut off. operating condition with small change range stable operation, safe, reliable and long service life.
- Easy installation, simple water piping system configuration, you can make design partition and divide second installation.

— Technical Data —

Model			W01R2-60L		W01R2-120L	
Unit capacity		kW	90		120	
Pipe type			Refrigerant coil pipe	Water coil pipe	Refrigerant coil pipe	Water coil pipe
Cooling	capacity	kW	45	45	60	60
	Rated input power	kW	11.5	2.45	15	3.75
	Rated input current	A	19.6	4.5	23.2	5.8
	Water flow					
Heating	capacity	kW	50	63	58.8	102
	Rated input power	kW	12.5	2.45	14.7	3.75
	Rated input current	A	22.0	4.5	22.7	5.8
	Water flow					
Air flow (adjustable)		m ³ /h	air flow:2000~6000; air return:0~6000;fresh air:0~6000		air flow;3000~10000; air return:0~6000;fresh air:0~10000	
Refrigerant charge		kg	2.1×4		3.5×4	
Cooling water inlet/out pipe size		In	R1 -1/2		R2-1/2	
Hot water inlet/out pipe size		In	R1 -1/2		R2-1/2	
Condensate water pipe		In	R1		R1-1/4	
External pressure		Pa	200		200	
Noise		dB(A)	58		68	
Product size	Length	mm	1800		2400	
	Width	mm	1000		1190	
	Height	mm	1660		2460	
Unit weight		kg	680		710	

Notes:

- 1.Refrigerant coil pipe cooling conditions:air inlet dry bulb temp.27℃ , wet bulb 19℃,entring water temp.30℃,leaving water temp.35℃.
- 2.Refrigerant coil pipe heating conditions:air inlet dry bulb temp.20℃ , wet bulb 15℃,entring water temp.10℃,water flow 2.76m³/h.
- 3.Water coil pipe cooling conditions:air inlet dry bulb temp.35℃ , wet bulb 28℃,entring water temp.15℃,leaving water temp.35℃.
- 4.Water coil pipe heating conditions:air inlet dry bulb temp.20℃ , wet bulb 15℃,entring water temp.60℃,water flow 2.76m³/h.
- 5.These parameter were tested according to pure water,not include anti-freezing liquid and water pump power.
- 6.The unit do not provide water pump,and disposed by project demand.
- 7.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 —



Mushroom Air Conditioning

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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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