

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® DC Inverter Air Cooled Chiller is a very intelligent chiller system with flexible capacity output. It could adjust cooling capacity output automatically according to requirements. It is much more energy-saving with a long lifespan and provides energy-efficient room cooling for residential and 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.

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.

Inverter Air Cooled Chillers



Inverter Air Cooled Chillers

— Product Description —

Withair® DC Inverter Chiller 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 Chiller provides energy-efficient room cooling 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.

— The Key Advantages Include —

- ECO friendly refrigerant R410A, R407C.
- Running ambient range from -27°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 —

Split DC Inverter Chiller

Model			W02C1-8I	W02C1-10I	W02C1-12I	W02C1-15I
Cooling condition	Rated cooling capacity	kW	8.2	10.1	12.2	15.4
	Rated cooling input power	kW	2.5	3.1	3.7	4.6
	Rated EER	w/w	3.28	3.26	3.30	3.35
	Cooling capacity range	kW	3.5~11	4.5~14.0	6.0~16.0	7.0~20.0
	Input power range	kW	1.0~4.0	1.3~5.0	1.6~6.0	1.8~6.5
	EER range	w/w	2.0~4.1	2.0~4.1	2.0~4.1	2.3~4.2
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				
Safe protection device		High/low pressure switch,overload protection,counter clockwise and short phase protection(power phases sequence protection),lack water(water-flow switch),ect				
Noise	dB(A)	49	51	52	53	
Connecting pipe size	Inch	Rc1"	Rc1"	Rc1"	Rc1"	
Dimension (ceiling type indoor)	Length	mm	500	500	650	650
	Width	mm	320	320	450	450
	Height	mm	365	365	365	365
Dimension (outdoor)	Length	mm	1050	1050	1050	1050
	Width	mm	420	420	420	420
	Height	mm	870	1400	1400	1500
Weight	Indoor	kg	38	45	51	61
	Outdoor	kg	110	130	139	151

Commercial DC Inverter Chiller

Model			W02C1-20I	W02C1-28I	W02C1-35I
Cooling condition	Rated cooling capacity	kW	20.0	28.0	35.0
	Rated cooling input power	kW	5.8	7.9	10.1
	Rated EER	w/w	3.45	3.54	3.46
	Cooling capacity range	kW	9.0~24.0	11.0~32.0	13~38
	Input power range	kW	2.4~9.2	3.0~11.5	3.6~13.8
	EER range	w/w	2.2~4.2	2.2~4.2	2.2~4.2
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		
Safe protection device			High/low pressure switch,overload protection,counter clockwise and short phase protection(power phases sequence protection),lack water(water-flow switch),ect		
Noise		dB(A)	55	57	59
Connecting pipe size		Inch	Rc1-1/4"	Rc1-1/4"	Rc1-1/2"
Dimension	Length	mm	1200	1200	1200
	Width	mm	400	550	550
	Height	mm	1700	1800	1800
Weight	Net weight	kg	175	195	216
	Gross weight	kg	189	216	252

Notes:

1. These parameter were tested according to pure water,not include anti-freezing liquid and water pump power.
2. Standard cooling work condition: entering chilled water temperature 12°C, leaving temperature 7°C;dry bulb temperature 35°C,wet bulb temperature 24°C.
3. 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 Chiller

+



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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