

## **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**

## Heat Recovery Chillers - Economic and environmental protection and energy savings

Whether striving to minimize the operating costs of a facility or reducing the building's carbon footprint, heat recovery from the chilled water system is entirely possible and practical. In applications from hotels to hospitals, casinos or universities, for service water heating to building heating, pool heating or preheating domestic water sources, heat reclaim is not only possible but also potentially a very efficient means to reduce energy costs and consumption.

Buildings are responsible for 40 percent of total energy consumption. Of the energy consumed in commercial buildings, 43 percent is used for space and water heating. If a more efficient means of providing heat could be implemented it would represent a tremendous opportunity to reduce energy consumption in buildings and thus reduce total energy consumption. There is a more efficient means of generating hot water through the application of chiller systems with heat reclaim capabilities. Withair® chillers with heat reclaim capabilities can do just that; produce chilled water controlled to the necessary temperature while generating hot water as a by-product of the chilled water system.

## Air Cooled (Mini) Water Chiller with Domestic Hot Water



# Air Cooled (Mini) Water Chiller with Domestic Hot Water

## — Product Description —

Withair® Air Cooled Mini Chiller with Domestic Hot Water offer cooling capacities ranging from 2 to 10 tons to precisely meet the requirements of indoor spaces while delivering high energy efficiency. Indoor fan coil unit options are available in both ceiling cassette and concealed designs, which is suitable for apartment, villas, hotels, factories, schools, salons, leisure centres etc.

Withair® Air Cooled Mini Chiller with Domestic Hot Water is not need cooling water tower at the condensing side, easy for installation. Mini Chiller series fixed type adopts rotary compressor or high efficiency scroll compressor. R410A environment refrigerant. Built-in water pump expansion tank and plate heat exchanger.

## — The Key Advantages Include —

- ECO friendly refrigerant R410A, R407C.
- Intelligent defrost totally.
- Multi self-protection functions, such as: high & low pressure, high temperature, water flow and antifreeze protection.
- Advanced & world-famous hermetic compressor high-efficiency, low-noise and low-vibration operation.
- Hydrophilic and corrosion-resistant material ensures adaptability to poor weather.
- Uses advanced hermetic 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.
- 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		W02C1-8HR	W02C1-10HR	W02C1-12HR	W02C1-15HR	W02C1-20HR	W02C1-25HR	W02C1-30HR		
Nominal cooling capacity		kW	7.8	10.1	12.5	15.2	19.6	24.6	29.7	
DHW (domestic hot water)	Heat recovery capacity	kW	2.3	3.0	3.8	4.6	5.9	7.4	8.9	
	Entering temperature	°C	50							
	Leaving temperature	°C	55							
Power supply		V/Ph/Hz	220/50			380/3/50				
Compressor	Type		Hermetic scroll compressor							
	Quantity		1	1	1	1	2	2	2	
	Power	kW	2.5	3.4	4.1	5.2	6	8.1	9	
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							
Air side (Condenser)		Type	High efficiency finned tube heat exchanger							
Water side (Evaporator)	Type		High efficiency plate heat exchanger							
	Water flow volume	m³/h	1.3	1.6	1.9	2.5	3.4	4.3	5.2	
	Water pressure drop	kPa	30-40							
Dimension	L*W*H	mm	956*410*1440			1210*590*1585				
Noise		dB(A)	54	55	56	58	58	60	61	
Refrigerant	Type		R410A							
	Charge	kg	2.8×1	3.2×1	3.6×1	4.0×1	3.2×2	3.6×2	4.0×2	
Net weight		kg	130	140	160	180	240	280	320	
A/C side entering/leaving pipe			DN25	DN25	DN25	DN32	DN32	DN32	DN32	
DHW side entering/leaving water pipe			DN25	DN25	DN25	DN25	DN25	DN25	DN25	

**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. As an optional function,heat recovery for domestic hot water is available,Max.heat recovery rate:40%.
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 —

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Air Cooled Water Chiller

+



Fan Coil Unit

+



Hydraulic Module

+



Hydraulic balance distributor

+



Insulation pipe

+



Thermostat





**Withair, your perfect partner for successful projects.**



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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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