

**The Energy Solutions of
Withair Water Cooled Packaged Unit 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

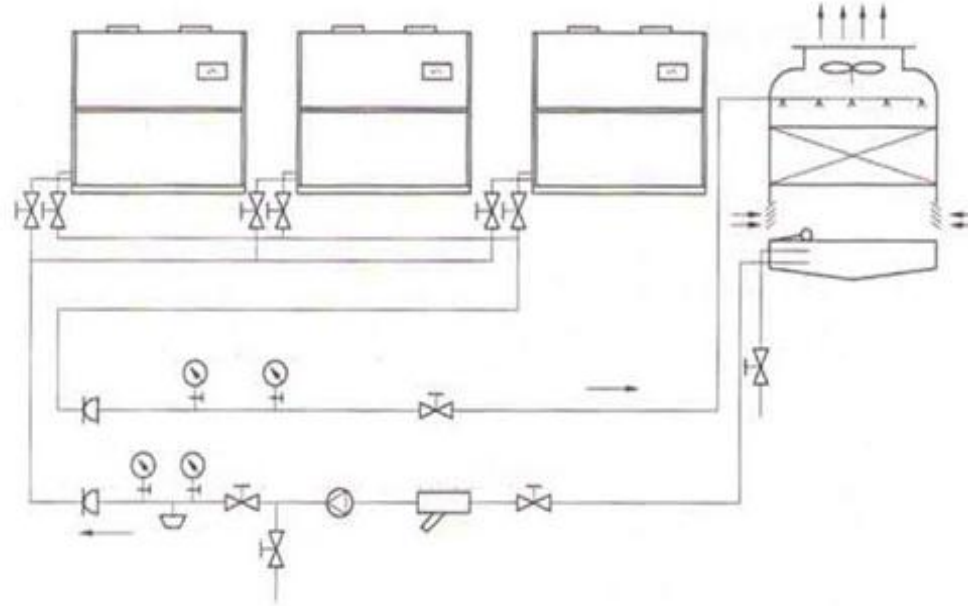
Use of clean energy

Use of environmentally-friendly cooling gases

ZERO direct CO2 emissions in the environment

Water Cooled Package Unit System Diagram

Water-cooled packaged unit with shell and tube heat exchanger and high efficiency, highlight its refrigeration effect. Water-cooled packaged unit usually apply to the hot summer, and demand large air flow places; Water-cooled packaged can be used according to the customer needs to choose a separate control or more centralized control manner. Water-cooled packaged unit applicability is wide and used in shopping malls, hotels, factories, villas, commercial housing, office buildings, shops, hospitals and other places.



Water Cooled Packaged Unit



Water Cooled Packaged Unit

— Product Description —

Withair® Water-cooled packaged unit has two types discharge air outlet: top discharge air and side discharge air, unit cooling capacity range from 28kW to 200kW, the unit can be equipped with auxiliary electrical heating (optional function). Withair® Water-cooled packaged unit with shell and tube heat exchanger and high efficiency, highlight its refrigeration effect. Water-cooled packaged unit usually apply to the hot summer, and demand large air flow places; Water-cooled packaged can be used according to the customer needs to choose a separate control or more centralized control manner. Water-cooled packaged unit applicability is wide and used in shopping malls, hotels, factories, villas, commercial housing, office buildings, shops, hospitals and other places.

— The Key Advantages Include —

- Energy efficient and durable use

Unit adopts the latest design, high efficiency scroll compressor, shell and tube heat exchanger good reliability, smooth operation and multiple refrigeration loop system design to saves the electricity. While a high-pressure protection system, low voltage protection system, phase, overload protection device and so on.

- Low noise

Unit choose wide impeller and low running speed and low noise fan, factory through strict attention to dynamic balance test, match with efficient sound-absorbing cotton,

ensure insulation performance of unit based on maximum reduces the noise.

- Many systems design, wide capacity control.

Unit adopts many systems design, wide capacity control if one independent system design do not work, othes systems still can work.

- High efficiency condensor

Using reflux condenser shell and tube type design, using the latest technology of internal copper tube, less in the water, unit can achieve efficient heat exchanger performance.

- Flexible installation

* Integrated design, compact structure, save space, when install, just need to connect cooling water system and power.

* The position of inlet pipe and outlet pipe can exchange, the freedom of the construction site.

* Don't need machine room, hang outside the wall and take up floor space,

- Easy operation and complete control

* Automatic control unit microcomputer, LCD display interface, temperature control range: 16°C-35°C.

* A key to start, colour backlit LCD display and easy operation.

* Water-cooled packaged unit with microcomputer control (remote control or manual operation). more convenient than the central air conditioning, saving cost.

* Full digital electronic control, easy operation, stable and reliable running, a remote control interface standard, make management personnel to stop in the 1000 m distance control unit.

- Maintenance convenience

For the convenience of the different needs of different users and maintenance convenience, the system has been designed to single loop, namely a corresponding refrigeration compressor is a circulatory system. When a circulatory system malfunction or safety device, do not affect others system operation.

- Water-cooled packaged using two layers of filtration, make the air fresher.

- The evaporator of water-cooled packaged unit can be directly washed by water, and prevent the copper tube corrosion.

— Technical Data —

Model	W02C2-	28DY	32DY	40DY	53DY	64DY	72DY	100DY	116DY	130DY	153DY	185DY	200DY	
Cooling capacity	kW	28	32	40	53	64	72	100	116	130	153	185	200	
	EER	4.38	4.21	4.26	4.27	4.21	4.40	4.39	4.46	4.39	4.40	3.85	3.81	
	BTU	96,000	109,000	136,000	181,000	218,000	246,000	341,000	396,000	444,000	522,000	631,000	682,000	
	USRT	8	10	11.5	15.2	18.3	21	29	33.2	37.2	44	53	58	
Air flow volume	m3/h	4800	5500	7200	9500	11500	12800	16500	19000	22000	26500	33000	36000	
Cooling capacity adjustable range		0-50-100				0-25-50-75-100								
Compressor	kW	3.2X2	3.8X2	4.7X2	3.1X4	3.8X4	4.1X4	5.7x4	6.5x4	7.4x4	8.7x4	10.5x4+6.1	10.5x5	
External static pressure	Pa	80	100	100	120	150	200	200	200	250	250	300	300	
Power supply	V/P/Hz	380~420/3/50												
Compressor type		Hermetic scroll compressor												
Evapoator type		Fin & Copper Tube Type												
Fan drive type		Strap drive												
Condensor	type	Shell and tube												
	water flow	m3/h	5.9	6.8	8.2	11.3	13.7	15.3	21.2	24.5	27.5	32.7	40.2	43.7
	water resistance	kPa	36	38	40	40	42	43	45	45	50	55	55	60
Cooling water pipe size	DN	32		40	50		65			80				
Condensed water pipe size	DN	25												
Refrigerant	Type	R410A												
	Thottle type	Capillary						Thermostatic expansion valve						
Product size	Length	mm	1470	1470	1470	1610	1710	1810	2030	2030	2210	2210	2410	2410
	Width	mm	575	575	575	700	700	700	850	850	850	1240	1460	1460
	Height	mm	2000	2000	2100	1850	1850	1850	1900	1900	1900	2000	2100	2100
Unit weight	kg	210	280	360	450	700	820	1000	1100	1210	1260	1450	1480	

Notes:

- 1.Cooling condition:inlet dry bulb temp.27℃, wet bulb temperature 19℃, entering/leaving cooling water temperature 30℃/35℃.
- 2.We can design special external static pressure.
- 3.Electronic heater function is optional.
- 4.All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications.

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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