

The Energy Solutions of Withair Dry Coolers 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

AIR SIDE PRODUCTS - MAXIMIZING HVACR SYSTEM PERFORMANCE

The Withair® portfolio of fan coil unit, ventilation unit, air handling unit, air cooler, dry cooler and cooling tower solutions is designed to make installations faster and easier, offers temperature and humidity control, heat recovery, deodorization, energy saving and air purification, and to maximize HVACR system performance. Using advanced technology, such as: brushless DC motor, single-zone, these systems quietly, temperature stability, reliably and efficiently deliver the comfort your building occupants need.

Withair® offers a full range of air side products and systems to meet your performance requirements. From 200cfm to the highly flexible 60,000cfm with numerous custom options, to a completely custom, energy efficient, environmentally responsible system, we have the optimal solutions for commercial, industrial and process

Dry Coolers



Dry Coolers

— Product Description —

Withair® series dry coolers can be used for cooling water, glycol and industrial oil cooling etc. for the equipment that need cooling medium.

Widely apply to the air cooling ,installation of air conditioning outdoor, food processing industry ,heat plants factory and power stations etc. for the equipment that need big capacity.

Withair® customize dry coolers base on customer's requirement: different media (water, glycol and oil), multiple circuits, sub-cooling circuits, stainless steel or aluminium casing, coated aluminium or copper fins, explosion proof motor and customized fin spacing.

— The Key Advantages Include —

- Using low energy consumption fans ,three phase 400/3/50Hz,double speed,IP54,insulation class F, from small specification 350 fan to big 630 fan;
- Fan nozzle designs for maximum air flow and minimality noise; Separate chamber for each fan;
- Casing use galvanized steel sheet with RAL 9010 coating ,have certain corrosion protection;
- Using V-type construction for horizontal air inflow ,vertical supply air;
- Thermodynamic chooses suitable heat exchange tube ,different capacity can choose 3/8"、 1/2"、 5/8"tube;
- Grade 4-6-8 of fan for selection, suitable for different requirements for noise of occasion;
- Fan motor and casing are both with earthing installation;
- Floating coil system can prevent leakage medium effectively ,strong warranty the heat exchanger durable service and safe assurance
- Capacity designs for maximizing the heat transfer relative to the energy consumption of the fan;
- Tube in tube coupling design for low pressure drop in the coil on the media sides (maximum 100kPa at water designing condition);
- More 15 years long servicelife and low maintainance operation;
- Durable material and rigid enclosure with hard gloss powder coated finish;
- Protective enclosure for both manifolds and U-bends;
- Unit designs for outdoor installation;
- 100% leakage tested at 40 bar;

— Technical Data —

Model	Capacity				Medium		Air flow		Power supply	Fan motor				Noise	Weight	Dimension			Pipe diameter	
	Water		Glycol		Water flow	Pressure drop				Power		Current								
	35℃ outdoor Temperature									Power		Current								
	Inlet/outlet water Temp.45/40℃						Power			Current										
	△	Y	△	Y			△	Y		△	Y	△	Y							
	kW				m³/h	kPa	m³/h		V/P/Hz	kW	kW	A	A	dB(A)	kg	mm	mm	mm	mm	mm
W03D-150	150.7	125.1	145.6	121.0	24.2	50	77132	58854	380/3/50	10.5	6.5	19.2	10.8	63	650	1980	2150	1980	2x2"	2x2"
W03D-175	174.9	145.6	169.5	136.9	28.1	35	71250	54151	380/3/50	10.5	6.5	19.2	10.8	64	780	1980	2150	1980	2x2"	2x2"
W03D-228	228.2	189.4	221.4	183.9	37.4	70	121205	88279	380/3/50	15.6	9.6	28.8	16.2	66	950	2850	2150	1980	2x2-1/2"	2x2-1/2"
W03D-275	275.6	223.5	267.8	217.3	45.3	50	106860	64253	380/3/50	15.6	9.6	28.8	16.2	66	1100	2850	2150	1980	2x2-1/2"	2x2-1/2"
W03D-310	309.4	257.8	298.7	249.0	49.8	50	154258	117700	380/3/50	20.8	12.8	38.5	21.6	67	1320	3780	2150	1980	2x3"	2x3"
W03D-373	372.9	280.0	365.1	296.1	60.6	100	142475	108288	380/3/50	20.8	20.8	38.5	21.6	67	1450	3680	2150	1980	2x3"	2x3"
W03D-392	392.4	326.7	381.8	318.1	63.2	90	192818	147121	380/3/50	26.0	16.0	48.0	27.1	68	1580	4550	2150	1980	2x3"	2x3"
W03D-460	459.3	372.1	447.9	363.2	73.9	60	178100	135368	380/3/50	26.0	16.0	48.0	27.1	68	1690	4550	2150	1980	2x4"	2x4"
W03D-475	475.5	395.8	464.8	387.1	76.2	100	231378	176542	380/3/50	31.2	19.2	57.6	32.5	69	1885	5380	2150	1980	2x4"	2x4"
W03D-555	555.7	449.9	544.2	441.1	89.4	96	213716	162437	380/3/50	31.2	19.2	57.6	32.5	69	1920	5380	2150	1980	2x4"	2x4"
W03D-652	652.4	528.0	641.0	519.2	105	100	249330	189506	380/3/50	36.5	22.5	67.2	37.8	70	2015	6250	2150	1980	2xDN125	2xDN125
W03D-733	733.2	591.7	718.4	580.4	118	85	276416	209582	380/3/50	41.5	25.6	76.8	43.2	71	2360	7100	2150	1980	2xDN125	2xDN125
W03D-829	828.9	668.8	814.0	657.5	133	100	310963	235776	380/3/50	46.8	28.8	86.4	48.6	72	2690	7950	2150	1980	2xDN125	2xDN125
W03D-925	924.7	745.8	909.8	734.5	149	100	345509	261970	380/3/50	52.0	32.5	96.0	54.0	73	2930	8780	2150	1980	2xDN125	2xDN125
W03D-1012	1012.0	817.3	993.4	804.0	162	100	379765	287687	380/3/50	57.5	35.2	106	59.5	74	3385	9750	2150	1980	2xDN150	2xDN150

Notes:

- Standard unit is vertical air discharge, Horizontal air discharge is for option.
- Rated working conditions: 40% relative humidity, atmosphere pressure 1bar, 20% glycol , water and oil SAE30 apply for 45℃.
- All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications

Model	Capacity				Medium		Air flow		Power supply	Fan motor				Noise	Weight	Dimension			Pipe diameter	
	Water		Glycol		Water flow	Pressure drop				Power		Current								
	35℃ outdoor Temperature																			
	Inlet/outlet water Temp.45/40℃																			
	△	Y	△	Y			△	Y		△	Y	△	Y							
	kW				m³/h	kPa	m³/h		V/P/Hz	kW	kW	A	A	dB(A)	kg	mm	mm	mm	mm	mm
W03D-5	5.4	4.5	5.2	4.4	0.9	36	2969	2296	220/1/50	0.14	0.1	0.6	0.35	30	40	870	530	800	3/4"	3/4"
W03D-6	6.5	5.5	6.3	5.4	1.1	32	2848	2203	220/1/50	0.14	0.1	0.6	0.35	30	45	870	530	800	3/4"	3/4"
W03D-7	7.5	6.3	7.4	6.3	1.3	58	2616	2023	220/1/50	0.14	0.1	0.6	0.35	30	50	870	530	800	3/4"	3/4"
W03D-10	10.3	8.7	9.8	8.4	1.7	25	6509	5034	220/1/50	0.55	0.4	1.1	0.64	42	59	1020	630	850	1"	1"
W03D-12	12.0	10.1	11.7	10.0	2.1	40	6118	4732	220/1/50	0.55	0.4	1.1	0.64	42	65	1020	630	850	1"	1"
W03D-15	14.7	12.4	14.3	12.2	2.4	80	5486	4243	220/1/50	0.55	0.4	1.1	0.64	42	72	1020	630	850	1"	1"
W03D-16	15.7	13.2	15.3	13.1	2.6	50	8892	6877	220/1/50	0.83	0.5	1.45	0.84	46	81	1220	880	900	1-1/4"	1-1/4"
W03D-19	18.9	15.9	17.7	15.1	3.2	60	8576	6633	220/1/50	0.83	0.5	1.45	0.84	46	89	1220	880	900	1-1/4"	1-1/4"
W03D-22	21.8	18.3	21.2	18.1	3.7	40	7981	6172	220/1/50	0.83	0.5	1.45	0.84	46	102	1220	880	900	1-1/4"	1-1/4"
W03D-31	30.9	26.2	29.4	25.0	5	50	19980	15397	220/1/50	2.8	1.8	5.2	3.0	52	135	1600	1090	950	1-1/2"	1-1/2"
W03D-37	37.0	30.6	35.7	29.6	6	48	19203	14642	220/1/50	2.8	1.8	5.2	3.0	52	140	1600	1090	950	1-1/2"	1-1/2"
W03D-45	45.3	36.7	44.3	35.9	7.5	82	17707	13458	220/1/50	2.8	1.8	5.2	3.0	52	160	1600	1090	950	1-1/2"	1-1/2"
W03D-64	64.0	54.2	62.0	52.6	11	85	39958	30793	220/1/50	5.5	3.5	10.3	6.0	54	245	2900	1090	950	2"	2"
W03D-75	75.3	62.5	73.2	60.7	13	75	38404	29283	220/1/50	5.5	3.5	10.3	6.0	54	265	2900	1090	950	2"	2"
W03D-92	91.2	74.0	88.7	72.0	15	50	35414	26915	220/1/50	5.5	3.5	10.3	6.0	54	310	2900	1090	950	2"	2"
W03D-116	116.2	96.8	112.8	94.0	19	70	57604	43922	380/3/50	8.3	5.3	15.5	9.0	56	385	4200	1090	950	2-1/2"	2-1/2"
W03D-136	136.0	110.2	132.3	107.3	22	48	53123	40373	380/3/50	8.3	5.3	15.5	9.0	56	450	4200	1090	950	2-1/2"	2-1/2"
W03D-151	151.0	125.3	146.6	121.7	25	70	76810	58566	380/3/50	11.0	7.0	20.5	12.0	58	550	2950	2100	1100	2-1/2"	2-1/2"
W03D-182	182.5	148.0	177.5	144.1	30	50	70828	53828	380/3/50	11.0	7.0	20.5	12.0	56	660	2950	2100	1120	3"	3"
W03D-232	232.5	193.6	225.6	188.0	38	70	115210	87844	380/3/50	16.5	11.0	31.0	18.0	58	695	4250	2100	1120	3"	3"
W03D-272	272.0	220.5	264.5	214.6	45	48	106245	80745	380/3/50	16.5	11.0	31.0	18.0	58	785	4250	2100	1120	3"	3"
W03D-315	314.8	262.1	308.0	256.5	50	100	153608	117122	380/3/50	22.0	14.0	41.0	24.0	60	1125	5550	2100	1120	DN100	DN100
W03D-368	367.9	298.0	360.5	292.2	60	98	141654	107655	380/3/50	22.0	14.0	41.0	24.0	60	1300	5550	2100	1120	DN100	DN100
W03D-396	395.7	328.4	386.4	321.0	65	95	188477	143259	380/3/50	28.0	18.0	51.0	30.0	61	1350	6850	2100	1120	DN100	DN100
W03D-457	456.8	368.8	447.1	361.3	75	72	172665	130914	380/3/50	28.0	18.0	51.0	30.0	61	1450	6850	2100	1120	DN125	DN125
W03D-552	552.5	445.8	542.7	438.3	90	100	207193	157093	380/3/50	33.0	21.0	62.0	36.0	61	1600	8150	2100	1120	DN125	DN125
W03D-622	621.7	505.2	609.6	496.0	100	98	242114	183446	380/3/50	39.0	25.0	72.0	42.0	62	1890	9460	2100	1120	2xDN125	2xDN125
W03D-715	714.4	580.3	702.3	571.0	115	98	276678	209648	380/3/50	44.0	28.0	82.0	48.0	62	2190	10750	2100	1120	2xDN125	2xDN125

Notes:

1. Standard unit is vertical air discharge, Horizontal air discharge is for option.
2. Rated working conditions: 40% relative humidity, atmosphere pressure 1bar, 20% glycol , water and oil SAE30 apply for 45℃.
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.

Feel free to contact us to receive further information about our products and energy solutions.

Notes:

[illegible]

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

Please follow our social networks.