

**The Energy Solutions of  
Withair Variable Air Volume Systems 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.**

 **Joining 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**

 **2-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 and air handling unit solutions is designed to make installations faster and easier, offers temperature and humidity control, heat recovery, deodorization, 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 solution for commercial, industrial and process applications.

### Variable Air Volume Systems



# Variable Air Volume Systems

## — Product Description —

Withair® VAV system combines the practicality and costeffectiveness of constant volume unitary systems, like packaged rooftop units and split systems, with dampers and a central control panel. This allows independent temperature control. The latest generation of VariTrac systems features exciting enhancements including CO2 and occupancy sensor inputs, as well as simple touch screen operator interface.

Withair® offers the most complete range of variable air-volume (VAV) systems in the industry. VAV systems are one of the most energy efficient HVAC solutions.

Meeting customer's various needs, presenting attractive appearance and realizing convenient installation.

## — The Key Advantages Include —

- Aesthetic design with high-quality galvanized steel.
- Available in two-pipe, three-pipe and four-pipe configurations.
- Hydrophilic aluminum foil improves efficiency and resists corrosion.
- Highly efficient motor and centrifugal fan ensures low-noise performance.
- Bottom/back air return type plenum box and left/right hand chiller water connection for optional.
- Proprietary symmetric design allows pipe entrance to be installed on either side of the unit to adapt to building conditions.

— Technical Data —

**Floor Series**

Model	Condenser coils	Air flow	Static pressure	Cooling capacity	Heating capacity	Fan power	Water flow	Water resistance	Noise	Weight
		m3/h	Pa	kW	kW	kW	m3/h	kPa	dB(A)	kg
W05V1.5F	4rows	1500	135	7.9	14.7	0.375	1.4	1.7	53	90
	6rows		95	11	17.5		1.9	4.1		100
W05V2F	4rows	2000	120	10.7	19.6	0.375	1.9	3.2	56	95
	6rows		80	14	25		2.4	7.1		105
W05V2.5F	4rows	2500	180	13.8	24.5	0.45	2.2	5.8	57	115
	6rows		140	18	32.8		3.1	14.8		135
W05V3F	4rows	3000	190	16.5	29.4	0.55	2.8	8.8	58	120
	6rows		150	21	38		3.6	19.4		140
W05V4F	4rows	4000	120	22	39	0.375*2	3.78	15.6	61	160
	6rows		80	28	50		4.8	34.3		180
W05V5F	4rows	5000	175	27.5	45	0.45*2	4.6	25.3	62	185
	6rows		135	35	54		6	57		210
W05V6F	4rows	6000	230	33	61	0.55*2	5.7	40.1	63	210
	6rows		190	42	76		7.2	33.6		245
W05V7F	4rows	7000	240	38	70	2.2	13.3	12.9	65	260
	6rows		200	49	87		8.4	15.1		295
W05V8F	4rows	8000	290	44	80	3	7.6	39.1	65	315
	6rows		250	56	99		9.6	27.3		360
W05V9F	4rows	9000	300	50	90	2.2	8.5	11.8	66	320
	6rows		260	63	109		11	14.9		370
W05V10F	4rows	10000	310	55	98	3	9.5	21.4	67	360
	6rows		260	70	118		12.1	46.5		410
W05V12F	4rows	12000	330	66	122	4	11.4	25	68	410
	6rows		270	84	192		14.5	53.9		470
W05V15F	4rows	15000	320	85	155	4	14.6	30	70	460
	6rows		270	112	189		19.2	25.3		520
W05V20F	4rows	20000	350	110	196	2*2.5	18.9	33.5	72	530
	6rows		300	140	262		24.1	31		610
W05V25F	4rows	25000	400	138	251	7.5	23.8	52.3	74	610
	6rows		340	175	320		30.1	42.3		690
W05V30F	4rows	30000	450	165	301	2*5.5	28.4	28.7	76	720
	6rows		390	210	380		36.2	57.8		810
W05V35F	4rows	35000	450	192	361	2*7.5	33.1	25.5	78	840
	6rows		390	249	439		42.7	53.8		980

## Vertical Series

Model	Condenser coils	Air flow	Static pressure	Cooling capacity	Heating capacity	Fan power	Water flow	Water resistance	Noise	Weight
		m3/h	Pa	kW	kW	kW	m3/h	kPa	dB(A)	kg
W05V2V	4rows	2000	190	10.7	19.6	0.375	1.9	3.2	56	93
	6rows		130	14	25		2.4	7.1		100
W05V3V	4rows	3000	240	16.5	29.4	0.55	2.8	8.8	58	150
	6rows		180	21	38		3.6	19.4		168
W05V4V	4rows	4000	330	22	39	0.375*2	3.78	15.6	61	192
	6rows		270	28	50		4.8	34.3		200
W05V5V	4rows	5000	340	27.5	45	0.45*2	4.6	25.3	67	224
	6rows		280	35	54		6	57		240
W05V6V	4rows	6000	280	33	61	0.55*2	5.7	40.1	65	250
	6rows		220	42	76		7.2	33.6		260
W05V8V	4rows	8000	430	44	80	3	7.6	39.1	67	300
	6rows		370	56	99		9.6	27.3		338
W05V10V	4rows	10000	490	55	98	3	9.5	21.4	68	419
	6rows		430	70	118		12.1	46.5		430
W05V12V	4rows	12000	480	66	122	4	11.4	25	70	445
	6rows		420	84	192		14.5	53.9		460
W05V15V	4rows	15000	520	85	155	4	14.6	30	72	503
	6rows		460	112	189		19.2	25.3		520
W05V20V	4rows	20000	490	110	196	7.5	18.9	33.5	75	680
	6rows		430	140	262		24.1	31		700
W05V25V	4rows	25000	690	138	251	11	23.8	52.3	76	860
	6rows		630	175	320		30.1	42.3		880
W05V30V	4rows	30000	700	165	301	15	28.4	27.4	77	1170
	6rows		640	210	380		36.2	57.8		1200
W05V35V	4rows	35000	680	193	352	15	33	51	78	1215
	6rows		620	254	449		42.2	45.5		1250

## Ceiling Series

Model	Condenser coils	Air flow	Static pressure	Cooling capacity	Heating capacity	Fan power	Water flow	Water resistance	Noise	Weight
		m3/h	Pa	kW	kW	kW	m3/h	kPa	dB(A)	kg
W05V1.5C	4rows	1500	100	8.4	15.2	0.32	1.4	9	53	87
	6rows		60	11.2	18.5		1.9	19.5		96
W05V2C	4rows	2000	120	11.1	19.6	0.375	1.9	11	57	95
	6rows		80	14.5	24		2.5	22.3		105
W05V3C	4rows	3000	160	16.9	30	0.55	2.9	18	58	120
	6rows		120	22	37		3.8	28.2		140
W05V4C	4rows	4000	120	22	39.2	0.375*2	3.8	22	59	160
	6rows		80	28	49		4.8	34.3		180
W05V5C	4rows	5000	180	27.6	50.8	0.45*2	4.7	26	62	185
	6rows		140	35.1	63.4		6.1	36.5		210
W05V6C	4rows	6000	230	33.1	60.3	0.55*2	5.7	32	63	210
	6rows		190	42.4	73.2		7.3	37.6		245
W05V7C	4rows	7000	240	38.4	70.1	2.2	6.6	12.9	65	260
	6rows		200	49.4	87.5		8.5	15.1		295
W05V8C	4rows	8000	280	44	80.5	2.2	7.5	24.9	65	315
	6rows		240	56.2	100		9.7	52.1		360
W05V9C	4rows	9000	300	51.2	90.8	3	8.8	11.8	66	320
	6rows		260	63	109		10.8	14.9		370
W05V10C	4rows	10000	300	55	101	3	9.4	25.2	67	360
	6rows		260	71	118		12.2	50.9		410
W05V12C	4rows	12000	320	66	121	4	11.3	18.8	68	410
	6rows		270	84	146		14.4	39.9		470
W05V15C	4rows	15000	320	85	155	4	14.6	30	70	460
	6rows		270	112	189		19.2	25.3		520

### Notes:

1. Return air condition:

- 1)cooling: inlet dry bulb temperature 27°C(80.6°F), wet bulb temperature 19.5°C(67.1°F); inlet water temperature 7°C(44.6°F), outlet water temperature 12°C(53.6°F);
- 2)heating: inlet dry bulb temperature15°C(59°F), inlet water temperature 60°C(140°F), water flow was the same as cooling.

2. Fresh air condition:

- 1)cooling:inlet dry bulb temperature 35°C(95°F), wet bulb temperature 28°C(82.4°F); inlet water temperature 7°C(44.6°F), outlet water temperature 12°C(53.6°F);
- 2)heating: inlet dry bulb temperature 7°C(44.6°F), inlet water temperature 60°C(140°F), water flow was the same as cooling.

3. Unit static pressure can be designed according to reqirment.

4. The water pipe connection direction can be changed before installing;

5. 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 —

---



Variable Air Volume + Hydraulic distributor + Air Vent + Flow Switch + Pressure gauge + Switch Valve + 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.

---



**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](mailto:info@withairmall.com)  
Website: [www.withairmall.com](http://www.withairmall.com)

Please follow our social networks.