



Product Introduction

The BritiPower VCR Model 1 chilled water in-row air conditioner is kind of intelligent temperature control product especially suitable for modular data center. It is usually deployed in the cabinet arrangement, installed side by side with the server cabinet, combined with enclosed hot and cold aisle, close to the heat source and efficient cooling, creating an ideal operating environment for the key infrastructure of the data center.

High reliability

- EC fan with real-time adjustment of airflow output according to the demand
- International brand electric two-way water valve, dynamically matching load
- Adopting two stage surface cooler, add water tray in the middle, effectively prevent blowing water.
- Using corrosion-resistant copper pipes and welding between pipelines to reduce the risk of leakage

Diversified configuration

- Multiple optional parts
 - Electric three-way water valve
 - Electronic Pressure Independent Valves
 - Dual power solution
- Optional delivery style grid to meet left and right air delivery needs.

High efficiency and energy saving

- The main components adopt international famous brands
 - Johnson or BELIMO water valve
 - Fans-tech EC fan
 - BritiPower controller
- Standard water leakage detector
- Intelligent monitoring of air conditioner power supply voltage, frequency and three-phase unbalance
- High return air temperature design improves cooling efficiency.

Intelligent management

- 7-inch color capacitive touch screen, three-level password protection
- Support graphic status and temperature and humidity curve display
- Support 64 units for CAN communication networking
- Standard RS485 interface, SNMP interface
- More than 2000 historical alarm information storage
- Cooling capacity and air volume display



To Order

To place an order, use the contact details below.

VCR Model 1

Chilled Water In-row Air Conditioner



Evaporator

Adopt two-stage evaporator, can increase the refrigeration area, and increase the water tray in the middle, can effectively prevent blowing water.

Scroll compressor

Adopt variable frequency scroll compressor that has 20%~100% dynamic adjustment of cooling capacity output. It has superior resistance to liquid impact and low noise and vibration level, and has long life.



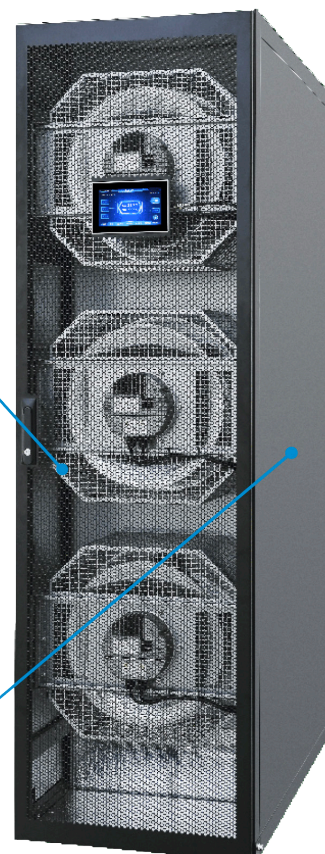
EC Fan

High efficiency EC centrifugal fan with low energy consumption, high cooling efficiency, less maintenance, and it can adjust the speed output according to the real time heat load changes to achieve maximum savings in operating energy consumption, more than 40% less than ordinary fans.



Electronic expansion valve

The use of electronic expansion valve, has fast response speed, which can quickly stabilize the working conditions, as well as accurate control of refrigerant flow with variable frequency compressor to achieve energy saving.



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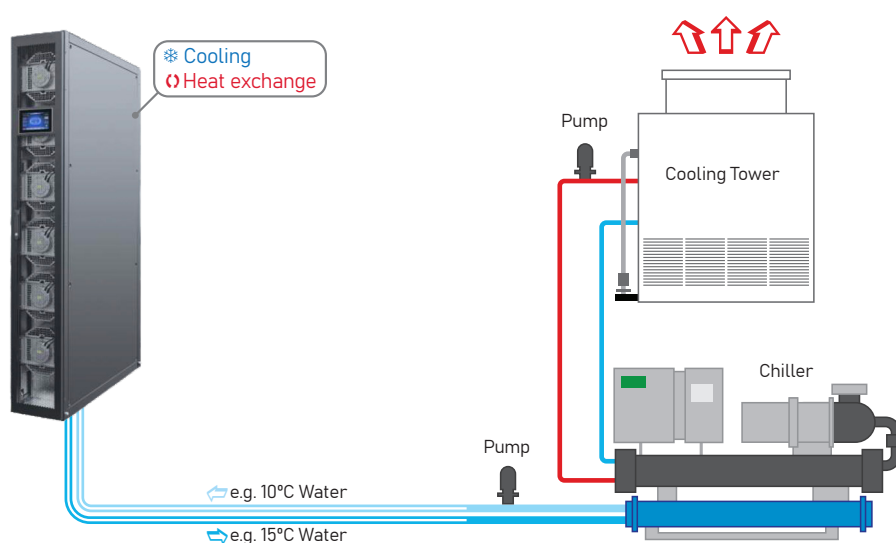
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Technical Specifications

	Unit	VCRM1-012	VCRM1-025	VCRM1-030	VCRM1-040	VCRM1-050	VCRM1-060
Unit Configuration	-	*	Refrigeration type / Constant temperature&humidity type				
Total cooling capacity	kW	12.5	25.5	30.8	42.8	51.5	62.7
Sensible cooling capacity	kW	12.5	25.5	30.8	42.8	51.5	62.7
Ton(USA)		3.55	7.25	8.76	12.17	14.64	17.83
Air volume	m³/h	2800	5000	5200	8500	10500	11500
Heating capacity	kW	3	4.5	4.5	6	6.5	6.5
Humidifying capacity	kg/h	1.5	3	3	3	3	3
EER	/	3.38	3.07	3.09	3.3	3.22	3
Power supply	/	380V 50/60Hz	380V 50/60Hz	380V 50/60Hz	380V 50/60Hz	380V 50/60Hz	380V 50/60Hz
Width	mm	300	300	300	600	600	600
Depth	mm	1100/1200	1100/1200	1100/1200	1100/1200	1100/1200	1100/1200
Height	mm	2000	2000	2000	2000	2000	2000
Weight	kg	200/210	220/230	230/240	300/310	330/340	335/345
Outdoor unit	Unit	VCP018	VCP038	VCP045	VCP056	VCP076	VCP088
Air volume	m³/h	5000	12000	15000	15000	22000	28000
Fan Num.	pcs	2	1	1	1	2	2
Size(W*H*D)	mm	932*1257*385	982*740*1378	1275*750*1578	1275*750*1778	1275*740*2178	1275*750*2378
Weight	kg	64	136	138	152	178	188

Test condition: The indoor dry-bulb temperature is 37°C, the relative humidity is 24%. Water inlet & outlet are 10°C/15°C

Operation Principle



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