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**HEFEI COOLNET POWER CO., LTD** 

# MetaRack **Micro Data Center**

# Company Profile

Coolnet focuses on the R&D, production, and application of data center integrated solutions. As technical consulting, product supply, system integrator, and service provider, it is committed to serving customers in the fields of communication equipment rooms, data centers, smart construction, and energy management.

Our solutions include data center temperature, humidity, and energy-saving solutions, small and medium-sized computer room temperature control solutions, micro-module data center solutions, micro-module cabinet solutions, container, and modular data center solutions, communication outdoor cabinet temperature control and energy saving Solutions, cabinet temperature and humidity, and energy-saving solutions.

Has rich research and manufacturing experience in the field of data center equipment, with world-class laboratories, production testing equipment, and a complete line of key equipment rooms. And passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed CE certification, CCC certification, CQC certification, CRAA quality certification, etc.

We are committed to "paying attention to customer needs and realizing customer value" and establishing a win-win cooperation pattern with customers. To become your most trustworthy, most grateful, most professional, most practical, and most reliable partner with the best vision. We will "make every effort to provide value for money products and services to make customers more competitive", and continue to explore and innovate.



# **MetaRack Data Centers**



Coolnet Cabinet Data Center is an integrated cabinet which contains cooling system, power system, monitoring system and rack system, etc.. There are more and more micro data centers, and it has been facing the dilemma that it is difficult to unify the planning, construction and operation management. The integrated cabinet deeply integrates data center infrastructure products, including multiple subsystems such as UPS, power distribution, refrigeration, cabinets, and fire protection, and implements overall management of the entire system through the monitoring system.



- Business outlets (Industry like: telecommunications, finance, energy, radio and television, retail...)
- Small enterprises Branches and networks of large enterprises, government, education, Healthcare Edge Data Center





# **Product Advantage**



### ▼ Efficiency

• The cold and hot aisles at the front and rear of the cabinet are closed to improve the cooling efficiency of the air conditioner.

 Inverter compressor, matching the load size, reducing the energy consumption of the whole machine.

### ▼ Stable and Reliable



- Emergency fan as emergency cooling.
- The power supply adopts 2N architecture.
- The ultra-wide voltage input operates stably, and has power protection functions such as phase sequence detection.
- Low temperature components or long connecting pipe components can be selected to ensure reliable operation.

### Inteligent management

• One-stop after-sales service can deal with various equipment failures in a timely manner;

 Standard dynamic monitoring system, providing various reports and data statistics, local and remote monitoring and management, and multi-point access to the upper management platform Unified supervision and support for diversified choices.



### ▼ Simpler

 Integrated design, integrate UPS, battery, power distribution, air conditioning, monitoring, wiring, fire protection and other products in the cabinet, get rid of the traditional sub-item construction mode; modular design, unified interface of each component, fast on-site.

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# **Monitoring Systems**



## **Edge Brain Infrastructure monitoring**

### Excellent User Interface

The 10 inches touch screen displays the running status in real time

#### Comprehensive Monitoring

Standard monitoring interface, real-time monitoring of power distribution, UPS, temperature and humidity, smoke detection and other information to ensure stable operation

#### Energy Management

Can display product energy consumption statistics and provide the last 12 months Trend graph of electricity consumption

#### Multi-terminal access

Multi-terminal support, via APP or WEB browser Securely authenticated access to the system

## **Edge Brain Equipment monitoring**

Monitoring of the operating status of IT equipment is available on request.

 $\geqslant$  The customer has to provide the communication protocol of the IT equipment to be monitored.





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## **MetaRack Cabinet Solution**

**Product Features** 

## EC20 product





Multi Connected Cabinet Data Center

## **O** Cabinet system

**ER series products** 



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IP5X fully enclosed cabinet, cold and hot channel isolation

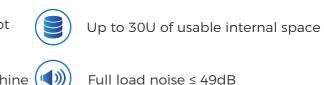
10.1 inch 0U monitoring all-in-one machine (

## **O** Power supply and distribution systems

3-30KVA capacity available Rack mountable Power back-up time on demand (15-120m) ATS dual input switching (optional) Industrial grade devices with built-in Class C lightning protection Comprehensive monitoring, real-time power display

## **O** Refrigeration system

3.5-10.5KW cooling capacity, accuracy ±0.5°C Inverter compressor + double EC fan. PUE≤1.4 Whole machine noise  $\leq$  49dB Low load anti-condensation technology N+X redundant group control



Series		Conventional Air Conditioning Version					
System	Index	EC20	ER02	ER03	ER05		
Power supply and distribution	UPS Capacity	3KVA	6KVA	10KVA	20KVA		
	Power factor	0.8	0.8	0.8	0.9		
	Total power input	220V/40A	220V/63A	220V/125A	380V/125A		
	Height	4U	4U	4U	6U		
	Lightning protection	C class					
	Others	ATSModle (optional)					
Cabinet	Recommended number of IT cabinets	1	2	3	5		
	Available space	28U	33U+42U	29U+2*42U	30U+4*42U		
	Number of PDUs in a single rack	1*8bit10A	1*12bit10A		1*(12bit10A+4bit16A)		
	Closed aisle	Fully enclosed cold and hot aisle					
	Ergency ventilation	Fan-type emergency ventilation system, support maximum 5KW heat dissipation, automatic start and stop					
	IT space expansion	Standard IT cabinet with 42U usable space (optional)					
Refrigiration	Туре	Rack mount	In row	In row	In row		
	Cooling Capacity (KW)	3.5	7.5	12.5	2*12.5		
	Sensible heat ratio	1					
	System	Compression system +EC fan					
	Monitoring volume	UPS、Power distribution、AC、Water leakage、Temperature & Humidity、Smoke、Door sensor					
Monitoring	Function	Data collection and storage, alarm management, energy consumption analysis, remote access, sound andlight alarm (optional), SMS alarm (optional), APP (optional)					
	Display	10-inch Touch screen					
Fire	Heptafluoropropane	1URack-mounted gas fire extinguishing system (optional)					
Battery	Standard number of batteries	8	16	16	20		
	Backup power for 15 minutes	2UBattery Pack	3UBattery Pack		6UBattery Pack		
	Backup power for 40 minutes			—	External 20 100A/12V		
	Backup power for 90 minutes						
	Longer time delay	Can be replaced with high-capacity batteries or increase the number of battery packs (not more than 4)					
Size	W*D*H-mm	600*1200*2000	1500*1200*2000	2100*1200*2000	3600*1200*2000		
	Environment temperature	0~45°C					
Environment	Environment humidity	Relative humidity 0-95%, no condensation					
	Altitude	<1000m, The excess part is derated according to relevant standards					



In planning and design in strict compliance with international standards, the use of Modular design, high degree of integration, easy to install



