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Cool-Smart Precision Air Coditioning

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.







COOL-SMART SERIES PRECISION AIR CONDITIONING (6-20KW) DX UNITS

INTRODUCTION

The cool-smart series computer room air conditioner is designed for small and mediun-sized computer rooms, telecom station, equipment rooms, etc.. Cool-smart has the characteristics of high air volume and small enthalpy with high reliability, high efficiency, long working life, and energy saving.

APPLICATIONS

- IT Equipment Room
- Small Data Center
- Industrial Clean Room
- Constant Temperature And Humidity Process Workshop
- Laboratory
- Electric Power Equipment Room
- Railway Subway Machine Room
- Base Station And Small Telecom Switch Room
- Medium&Small Telecom Switch Room





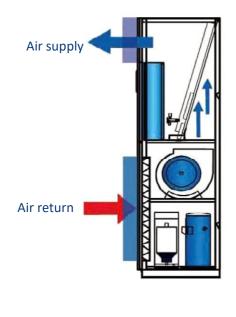


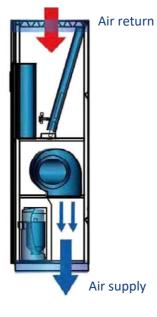






AIR DISCHARGE





Upflow

Downflow

PREMIUM PERFORMANCE

Performance	Parameters					
Working	Working voltage and frequency: 380V±10% 50HZ±3HZ; 220V±10% 50HZ±3HZ					
Environment	Working temperature: -40 °C—50 °C					
Filter level	G4					
Precision Control	Temperature control 15°C—35°C±1°C Humidity control 30%—80%±5%					
Reliability	When the unit fails, the circulating fan remains in operation, with an MTBF of over 100,000 hours					

PREMIUM PERFORMANCE

	Operating Interface	7" true colour tou convenient operat
Professional operation	Display content	 Real-time operation operation and c protection automatic main messages, etc. graphic display of all components
	Information record	 complete maching 500 historical al All operational al
	Monitoring functions	Standard support protocol, and Optional support f other protocols an
	Humidity control	Optional humidifie
	Start/stop control	Timed switch on/c Manual forced fur
	Self-starting on incoming calls	Minimum detection be put into operate the server caused by the server ca
Control methods	Group control function	 Highly reliable C four group cont autonomous, equa support for rota competing operati automatic host automatically push Group commun switching state, te
	Fire protection grade	А
	Panel protection	IP54 (outdoor unit
Conveito enerte eti e e	Insulation Level	F
Security protection	System protection	The system can be over/under voltag the normal operat
	Component protection	Humidifier protect
Cleanliness control	Filter level	G4

uch screen, friendly human-machine interface, ation

ating status of all components of the unit configuration parameters with three levels of password

ntenance prompts, fault diagnosis, component alarm

of temperature and humidity curves, operating status s and component running time, etc.

nine and component runtime

alarm records

actions of the unit

for RS485 communication serial port, MODBUS-RTU

t for Ethernet interface, MODBUS-TCP, SNMP, HTTP and and WEB access to the unit.

ier with relative or absolute humidity control

/off

nction

ion time for incoming power supply, so that the unit can ation in the shortest possible time and avoid damage to d by high temperature rise after a long shutdown

CAN bus for group control of up to 32 units.

trol modes: rotating standby, simultaneous

ual distribution and on-demand distribution.

tating, backup and cascading functions, which can avoid ations.

t push function: when the host fails, the slave shes a new host.

nication failure is to maintain communication in normal emperature and humidity demand switch to local mode.

it), IP20 (indoor unit)

be optionally equipped with phase sequence protection, ge protection, water leakage protection, etc. To ensure ation of the unit when unattended.

ction, heater protection, filter blocking alarm, etc.

TECHNICAL DATA OF COOL-SMART SERIES

Model			M06	ľ	V108		M13 M17				M20	
Туре		Cooling only	Constant Temperature and Humidity	Cooling only	Constant Temperature and Humidity	Cooling only	Constant Temperature and Humidity	Cooling only	Constant Temperature and Humidity	Cooling only	Constant Temperature and Humidity	
Air supply			F		F		F/D		F/D		F/D	
Power		220Va	220Vac/1Ph/50Hz 380Vac/3Ph/50Hz 380Vac/3Ph/50Hz 380Vac/3Ph/50Hz					380Vac/3Ph/50Hz				
Performance Parameters	1											
Total capacity	kw	6.4	6.4	7.5	7.5	12.5	12.5	17.5	17.5	20.2	20.2	
Sensible capacity	kw	5.8	5.8	6.9	6.9	11.3	11.3	15.7	15.7	18.2	18.2	
Compressor												
Refrigerant						R410A						
Compressor type					Fixed	frequency scro	ll compressor					
Compressor quantity	рс		1		1		1		1	1		
Input Power	kw		1.66		2.02		3.17		4.22		4.87	
Current	A		7.75		4.5		6.72		8.56	9		
Fan												
Fan type					Backwa	rd inclined cer	trifugal (EC)fan					
Fan quantity	рс		1		1		1		1		1	
Air volume	m³/h		1900	1	2400		3800		5300	5	700	
Excess pressure outside	Pa				Standard press	l ure is 20Pa, ad	justable from 20-3					
Heater												
Material						PTC Electric I	Heater					
Capacity	kw		3		3		3		4		4	
Heater class			1		1		1		1		1	
Humidifier					1	I					I	
Туре						Electrode hur	nidifier					
Capacity	kg/h		3		3		3		3		3	
Power	kw		2.25		2.25		2.25		2.25		2.25	
Air filter						G4 plate fi						
Indoor noise	dBA		65		65		66		67		68	
Connection Size												
Humidifier inlet pipe	In		G 1/2	0	5 1/2		G 1/2		G 1/2	G	1/2	
Condensate drain pipe	φmm			19		19		19		19		
Gas pipe	φmm		12.7		12.7		15.88		15.88	19.05		
Liquid pipe	φmm		9.52		9.52		9.52		9.52		2.7	
Electrical Parameters												
Power	kw	2	5	2.6	5.6	4.4	7.4	5.8	9.8	6.9	10.9	
FLA	A	12.5	30.5	11	20	13.6	22.6	19	29.5	21	32.5	
Dimension:W×D×H	mm		×510×1900		580×1900		580×1900		:660×1900		60×1900	
Weight	kg		153	162		173		201		210		
Condenser	9		Y0081					CY0241		CY0291		
				CY0121		CY0191						
Number of matches			1		1		1	1		1		
Power		220Vac/1Ph/50Hz										
Installation method				Vert	tical				Vertical/ho	orizontal		
Condenser Fan Performance												
Туре			Single-phase asynchronous motor + axial flow					AC axia				
Fan quantity	PC		1	1		2		1		1		
Air volume	m³/h		3000	4000		7000		8500		9000		
Input power	kw		0.16	0.17		0.38		0.6		0.61		
Input current	A		0.62		0.65		1.7		3.4	3	3.4	
Speed mode						tepless speed r						
Unit noise	dBA		53		55		58		65		65	
Dimension:W×D×H	mm	960	×390×800	960×390×800		960×390×1270		1115×520×1065		1115×545×1065		
Sincipion	_			48		65		91		102		

F: Air supply from the front, D: Air from the bottom;
 Standard working conditions: return air dry bulb temperature 24°C, relative humidity 50%, outdoor dry bulb temperature 35°C;
 The size of the interface is the internal interface of the indoor unit, please refer to the manual for connecting the copper pipe.
 The sound pressure level is meauered on 1m height, and the distance from the unit is 1m.

TECHNICAL DATA OF COOL-SMART SERIES

Model		v108		M13		M17	M20		
	Cooling only	Constant Temperature and Humidity	Cooling only	Constant Temperature and Humidity	Cooling only	Constant Temperature and Humidity	Cooling only	Constant Temperature and Humidity	
		F		F/D		F/D	F/D		
	380Va	c/3Ph/50Hz	380Va	ic/3Ph/50Hz	380Va	c/3Ph/50Hz	380Vad	/3Ph/50Hz	
					1				
kw	7.6	7.6	12.6	12.6	17.1	17.1	20.2	20.2	
kw	6.9	6.9	11.3	11.3	15.7	15.7	18.2	18.2	
				1	1	1			
				R410A					
				Inverter comp	oressor				
рс		1		1		1		1	
				Backward inclined cen	trifugal (EC)fan				
рс		1		1		1		1	
m³/h	:	2400		3800		5300		5000	
Ра			Standar	d pressure is 20Pa, adj	ustable from 20-3	00Pa	1		
				PTC Electric H	leater				
kw		3		3		4		4	
		1		1		1		1	
				Electrode hun	nidifier				
kg/h		3		3		3		3	
		2.25		2.25		2.25		2.25	
				G4 plate fi	lter				
dBA		65				67		68	
In	(G 1/2		G 1/2		G 1/2		6 1/2	
			19		19		19		
					15.88		15.88		
							12.7		
T									
mm	650×630×1975		650×630×1975		775x730x1975		775×	730×1975	
							210		
8							CY0291		
							1		
		1			(50)	1		1	
				220Vac/1Ph/	/SUHZ				
		Vertica	1			Vertical/ho	orizontal		
	1						1		
							9000		
							0.61		
A	0.65		1.7 3.4		3.4	3.4			
				Stepless speed r	egulation				
dBA		55 390×800		Stepless speed r 58 <390×1270		65 ×520×1065		65 545×1065	
	kw pc pc m ³ /h Pa	Cooling only Cooling only Cooling only Cooling only Kw 7.6 kw 7.6 kw 6.9 pc	Cooling only and Humidity Image: Imag	Cooling onlyConstant Temperature and HumidityCooling onlyImage: Cooling o	Cooling onlyConstant Temperature and HumidityCooling onlyConstant Temperature and HumidityIIFCooling onlyConstant Temperature and HumidityI380Vac/3Ph/50H2380Vac/3Ph/50H2380Vac/3Ph/50H2I380Vac/3Ph/50H2380Vac/3Ph/50H2ItalIIItalItalItalIIItalItalItalIIItalItalItalIIItalItalItalIIItalItalItalIIItalItalItalIIItalItalItalIIItalItalItalIIItalItalItalIIItalItalItalIIItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalIItalItalItalItalI	Cooling onlyConstant Temperature and HumidityCooling onlyTemperature and remerature and humidityCooling onlyImage: Cooling onlyFF/D38074380742/3Ph/SOH2380742/3Ph/SOH2380742/3Ph/SOH238074Image: Cooling onlyF12.612.11Image: Cooling only6.911.311.315.7Image: Cooling only6.911.311.315.7Image: Cooling onlyImage: Cooling onlyImage: Cooling onlyImage: Cooling onlyImage: Cooling only6.911.311.315.7Image: Cooling onlyImage: Cooling onlyImage: Cooling onlyImage: Cooling onlyImage: Cooling only6.911.311.315.7Image: Cooling onlyImage: Cooling	Cooling onlyConstant Temperature and HumidityCooling onlyConstant Temperature and HumidityCooling onlyConstant Temperature and HumidityImage: Cooling onlyF F/D F/D F/D Image: Cooling only F/D F/D F/D <t< td=""><td>Cooling only Constant Temperature and Humidity* Cooling only Temperature Temperature and Humidity* Cooling only Temperature Temperature and Humidity* Cooling only I F F/O F/D F/D S00vac/3Ph/S0H 380Vac/3Ph/S0H 380Vac/3Ph/S0H</td></t<>	Cooling only Constant Temperature and Humidity* Cooling only Temperature Temperature and Humidity* Cooling only Temperature Temperature and Humidity* Cooling only I F F/O F/D F/D S00vac/3Ph/S0H 380Vac/3Ph/S0H 380Vac/3Ph/S0H	

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