

# **COOLCABINET PRECISION AIR CONDITIONER**

Cabinet Air Conditioning Specialist



**ACSON**<sup>®</sup>  
International  
Air Conditioners

# **CoolCabinet Precision Air Conditioner**

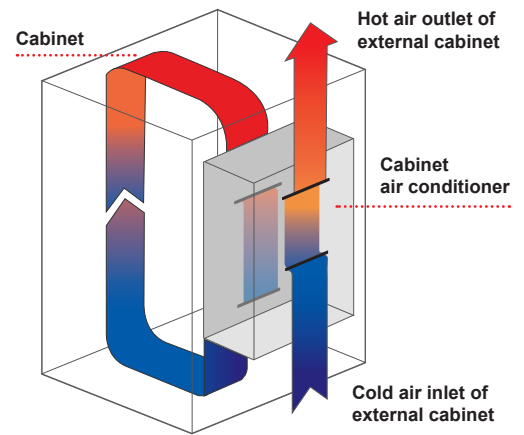
Acson CoolCabinet Precision Air Conditioner is developed to provide cooling for telecommunication, battery storage, energy and power control cabinets. It keeps interior air clean to ensure sensitive instruments are not corroded by dust and moisture. This is to ensure better performance and prolonged service capacity.



# CoolCabinet Precision Air Conditioner

## Working Mechanism

1. The Cabinet air conditioner compresses refrigerant, condenses and cools then evaporates and absorbs heat to reduce the temperature in the cabinet.
2. As the air conditioner is installed in the cabinet, the heated air in the cabinet will be transfer to the external cabinet.
3. The internal cabinet can always be maintained at an ideal temperature environment of 30~35°C.
4. This could prevent the occurrence of high temperature, dust, water vapor and corrosive gas from entering into the cabinet that could lead to malfunction.



## Features

### Operating Condition

- R134a refrigerant
- 20~55°C working environment

### Safety

- Air conditioner failure self diagnosis
- Emergency ventilation and hydrogen discharge function

### Performance

low noise, high energy efficient and high corrosion resistance

### Installation

Compact design, light-weight and easy to maintenance

### Protection

Class IP55, protected from low pressure water jets from any direction.

### Intelligent

- Alarm functions (high/low temperature, sensor and equipment fault)
- Standard RS485 communication interface, external inputs (e.g: access control, smoke sensor, etc.) and dry contact

## Applications



1. Outdoor advertising machine



2. Mobile base station communication cabinet



3. Electric control cabinet of industrial factory



4. Power switch cabinet



5. Micro/Modular data center

# Specifications

## Direct Current (DC) Series (APCC0300-4000WA)

Model		APCC0300WA	APCC0500WA	APCC0600WA	APCC0800WA	APCC1000WA	APCC1300WA	
Nominal Cooling Capacity	BTU/hr	1,024	1,706	2,047	2,730	3,412	4,436	
	kW	0.3	0.5	0.6	0.8	1.0	1.3	
Power Source	V/Ph/Hz	DC48V						
Rated Power Consumption	kW	0.13	0.168	0.18	0.27	0.285	0.4	
Rated Current	A	2.7	3.5	3.8	5.6	6.0	8.3	
Maximum Current	A	4.0	5.8	6.3	8.0	9	10.5	
Air Flow Rate	l/s (CFM)	30.5 / 64.7	41.7 / 88.3	44.5 / 94.2	58.3 / 123.6	125.0 / 264.9	138.9 / 294.3	
Unit Dimension	Height	mm (in)	320 / 12.6	546 / 21.5	546 / 21.5	546 / 21.5	746 / 29.4	746 / 29.4
	Width	mm (in)	315 / 12.4	315 / 12.4	315 / 12.4	315 / 12.4	446 / 17.6	446 / 17.6
	Depth	mm (in)	140 / 5.5	175 / 6.9	175 / 6.9	175 / 6.9	200 / 7.9	200 / 7.9
Unit Weight	kg (lb)	8 / 17.6	20 / 44.1	20 / 44.1	22 / 48.5	28 / 61.7	28 / 61.7	
Working Temperature Range	°C	-40 ~ 55°C						
Sound Pressure Level	dB(A)	60	60	60	65	65	65	
Surface Treatment	Powder Coating (RAL7035)							
IP Marking	IP 55							
Refrigerant	Type	R134a						

Model		APCC1500WA	APCC2000WA	APCC2500WA	APCC3000WA	APCC4000WA	
Nominal Cooling Capacity	BTU/hr	5,118	6,824	8,530	10,236	13,648	
	kW	1.5	2.0	2.5	3.0	4.0	
Power Source	V/Ph/Hz	DC48V					
Rated Power Consumption	kW	0.45	0.6	0.75	0.9	1.17	
Rated Current	A	9.4	12.5	15.6	18.8	24.4	
Maximum Current	A	12	19	23	25	30	
Air Flow Rate	l/s (CFM)	152.8 / 323.7	194.4 / 412	194.4 / 412	250.0 / 529.7	305.6 / 647.4	
Unit Dimension	Height	mm (in)	746 / 29.4	746 / 29.4	1150 / 45.3	1150 / 45.3	1150 / 45.3
	Width	mm (in)	446 / 17.6	446 / 17.6	485 / 19.1	485 / 19.1	485 / 19.1
	Depth	mm (in)	200 / 7.9	200 / 7.9	240 / 9.4	230 / 9.1	240 / 9.4
Unit Weight	kg (lb)	35 / 77.2	37 / 81.6	57 / 125.7	60 / 132.3	66 / 145.5	
Working Temperature Range	°C	-40 ~ 55°C					
Sound Pressure Level	dB(A)	65	65	65	65	65	
Surface Treatment	Powder Coating (RAL7035)						
IP Marking	IP 55						
Refrigerant	Type	R134a					

### Notes:

- All specification are subjected to change by the manufacturer without prior notice.
- Nominal cooling capacity and power consumption are based on the condition below:  
Internal temperature: 35°C; External temperature: 35°C.

# Specifications

## Alternating Current (AC) Series (APCC0300-7500PA)

Model		APCC0300PA	APCC0500PA	APCC0600PA	APCC0800PA	APCC1000PA	APCC1500PA	
Nominal Cooling Capacity	BTU/hr	1,024	1,706	2,047	2,730	3,412	5,118	
	kW	0.3	0.5	0.6	0.8	1.0	1.5	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50						
Electric Heater Power (Optional)	kW	0.5	0.5	0.5	0.5	1.0	1	
Rated Power Consumption	kW	0.17	0.21	0.22	0.38	0.43	0.6	
Rated Current	A	0.8	1	1	1.8	1.9	2.8	
Maximum Current	A	1.2	1.5	1.5	2.5	2.5	3.7	
Air Flow Rate	l/s (CFM)	33.3 / 70.6	44.5 / 94.2	44.5 / 94.2	50.0 / 105.9	125.0 / 264.9	152.8 / 323.7	
Unit Dimension	Height	mm (in)	546 / 21.5	546 / 21.5	546 / 21.5	546 / 21.5	746 / 29.4	746 / 29.4
	Width	mm (in)	315 / 12.4	315 / 12.4	315 / 12.4	315 / 12.4	446 / 17.6	446 / 17.6
	Depth	mm (in)	175 / 6.9	175 / 6.9	175 / 6.9	175 / 6.9	200 / 7.9	200 / 7.9
Unit Weight	kg (lb)	15 / 33.1	16 / 35.3	16 / 35.3	20 / 44.1	28 / 61.7	31 / 68.3	
Working Temperature Range	°C	-40 ~ 55°C						
Sound Pressure Level	dB(A)	63.0	63.0	63.0	63.0	65.0	65.0	
Surface Treatment		Powder Coating (RAL7035)						
IP Marking		IP 55						
Refrigerant	Type	R134a						

Model		APCC2000PA	APCC3000PA	APCC4000PA	APCC5000PA	APCC7500PA	
Nominal Cooling Capacity	BTU/hr	6,824	10,236	13,648	17,060	25,590	
	kW	2.0	3.0	4.0	5.0	7.5	
Power Source	V/Ph/Hz	220 ~ 240 / 1 / 50					
Electric Heater Power (Optional)	kW	1	1	1	3	3	
Rated Power Consumption	kW	0.83	0.9	1.4	1.75	2.6	
Rated Current	A	3.8	5.3	6.5	8.2	12	
Maximum Current	A	4.9	7.5	9.5	12	15	
Air Flow Rate	l/s (CFM)	194.4 / 412	250.0 / 529.7	277.8 / 588.6	333.3 / 706.3	416.7 / 882.9	
Unit Dimension	Height	mm (in)	746 / 29.4	1150 / 45.3	1150 / 45.3	1300 / 51.2	1300 / 51.2
	Width	mm (in)	446 / 17.6	485 / 19.1	485 / 19.1	600 / 23.6	600 / 23.6
	Depth	mm (in)	200 / 7.9	230 / 9.1	240 / 9.4	320 / 12.6	320 / 12.6
Unit Weight	kg (lb)	35 / 77.2	60 / 132.3	65 / 143.3	90 / 198.4	100 / 220.5	
Working Temperature Range	°C	-40 ~ 55°C					
Sound Pressure Level	dB(A)	65.0	65.0	65.0	65.0	65.0	
Surface Treatment		Powder Coating (RAL7035)					
IP Marking		IP 55					
Refrigerant	Type	R134a					

Notes:

1. All specification are subjected to change by the manufacturer without prior notice.
2. Nominal cooling capacity and power consumption are based on the condition below:  
Internal temperature: 35°C; External temperature: 35°C.



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