

# EVAPORATIVE AIR COOLER

COOLING / VENTILATION / FRESH AIR

H<sub>2</sub>O

H<sub>2</sub>O



**JHCOOL® 晶辉**

FUJIAN JINGHUI ENVIRONMENTAL TECHNOLOGY CO.,LTD  
Factory address: JHCOOL building, Wushan Road No.3, Gaishan Town, Cangshan District,  
Fuzhou, Fujian, China

Tel: +86-591-83373786 +86-591-88086845  
Website: www.jhcool.com www.jhheater.com



CE

CB

SAA



SGS

About JHCOOL



Our company, Fujian Jinghui Environmental Technology Co., Ltd. is the leading manufacturer of evaporative air cooler in the world. We have three factories producing all kinds of evaporative cooling products. All of our factory locates in Fuzhou, the capital of Fujian province, in southeast sea shore of China, with the most convenient transportation facilities, for example, sea port, air port, high speed train, express ways.

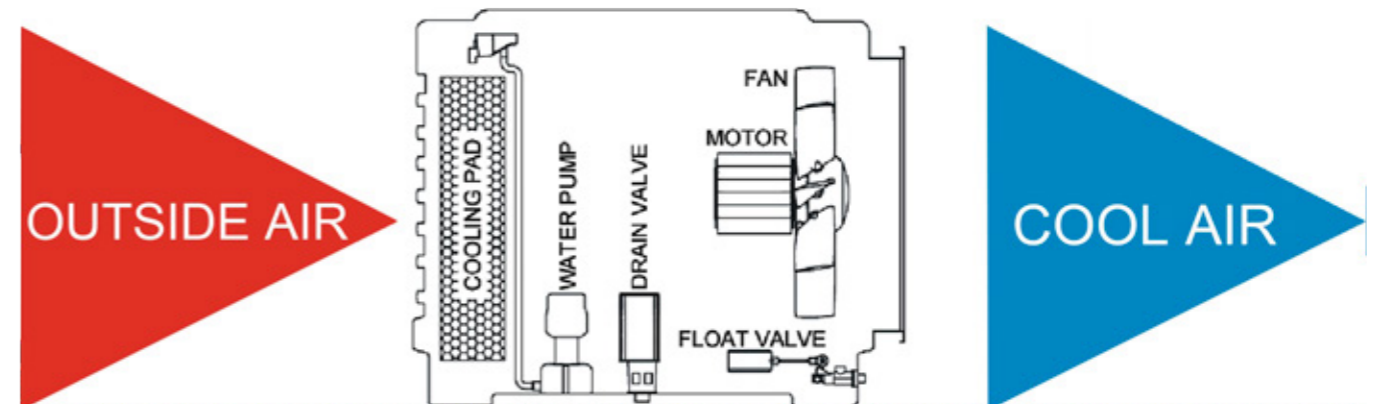
Professional leads to perfect ! Our company specializes in manufacturing evaporative cooler. After years fast development, we are leading evaporative cooler technique in the world. Now, in the evaporative cooling industry, we produce the most various kinds of evaporative coolers. Our products line covers standard unit, industrial unit, window unit, mobile unit and home unit. Our products own CE, CB, SAA, SGS and ISO certificates.

Insisting strict quality producing standard, JHCOOL quality has been approved by world users. By well-management, our cost level is the lowest in the industry. Our prices are most competitive in world market.

# COMPARE WITH OTHER COOLING OR VENTILATION DEVICES

Type	 Evaporative cooler	 Refrigerative air con	 Centrifugal fan	 Ceiling fan
Capacity	18000cmh	400000BTU/hr	40000cmh	1400mm.Dia
Power	1.1KW	54KW	7.5KW	0.075KW
Cover area	1000sqm	1000sqm	1000sqm	1000sqm
Air change per hour	30	0	30	0
Units required	8	2	3	83
Total kw	8.8KW	108.0KW	22.5KW	6.2KW
Electricity cost per year (10hrs,365 days)	32120KW-h	394200KW-h	82125KW-h	22721KW-h
Cost with reference to Refrigerative air con	8.15%	100%	20.83%	5.76%

## WORKING PRINCIPLE



**JH** evaporative cooler are larger open areas. Cool large areas such as Warehouses, Sidelines at sporting events, Greenhouses, Shop areas, Assembly areas. Evaporative cooling systems offer a low-cost alternative to air conditioning. Easy to set up in the wall, window and roof, not only provide cooling, but also provide good ventilation. They simply use an internal or external water source to provide cooling.

Evaporative air cooler works on the principle of heat absorption by moisture evaporation

Hot & dry ambient air is filtered & cooled by passing through cellulous pads

Pads are wet by water recycling, and pushed out by powerful blower to certain areas.

## APPLICATIONS OF EVAPORATIVE AIR COOLER



## TEMPERATURE DECREASE OF EVAPORATIVE AIR COOLER

Exit°C \ Intake air°C	Intake air Relative humidity(%)								
	10	20	30	40	50	60	70	80	90
10	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.6	9.4
15	6.6	7.8	8.8	9.8	10.8	11.7	12.6	13.4	14.3
20	10.1	11.4	12.8	13.9	15.2	16.2	17.2	18.2	19.2
25	13.4	15.0	16.6	18.0	19.4	20.6	21.8	22.9	24.0
30	16.6	18.6	20.4	22.0	23.6	25.0	26.4	27.7	28.9
35	19.8	22.2	24.2	26.2	28.0	29.6	31.0	32.4	33.7
40	23.0	25.6	28.1	30.4	32.3	33.9	-	-	-
45	25.9	29.2	32.0	34.4	-	-	-	-	-
50	29.0	32.7	35.8	-	-	-	-	-	-

# Intelligent touch screen control



- RS485
- Memory function
- 6 time logs. Auto on/off timer
- Indoor: temperature & humidity sensor, outdoor: temperature sensor.



## Computerized control circuit

Fairchild IPM module  
More energy saving

## Sealed aluminum motor

100% copper wire  
Waterproof

## Cellulose pad

Long lifetime  
High evaporation efficiency

## Inlet valve

Filter inset  
Angle adjustment

## Drain valve

Long lifetime  
Water refresh

## Water pump

Pump protection  
Prevent impurity

## LCD wall controller

Temperature & humidity display  
16 speeds control

## Water level sensor

Protect water pump  
High/low level detection



# PROJECT CASE

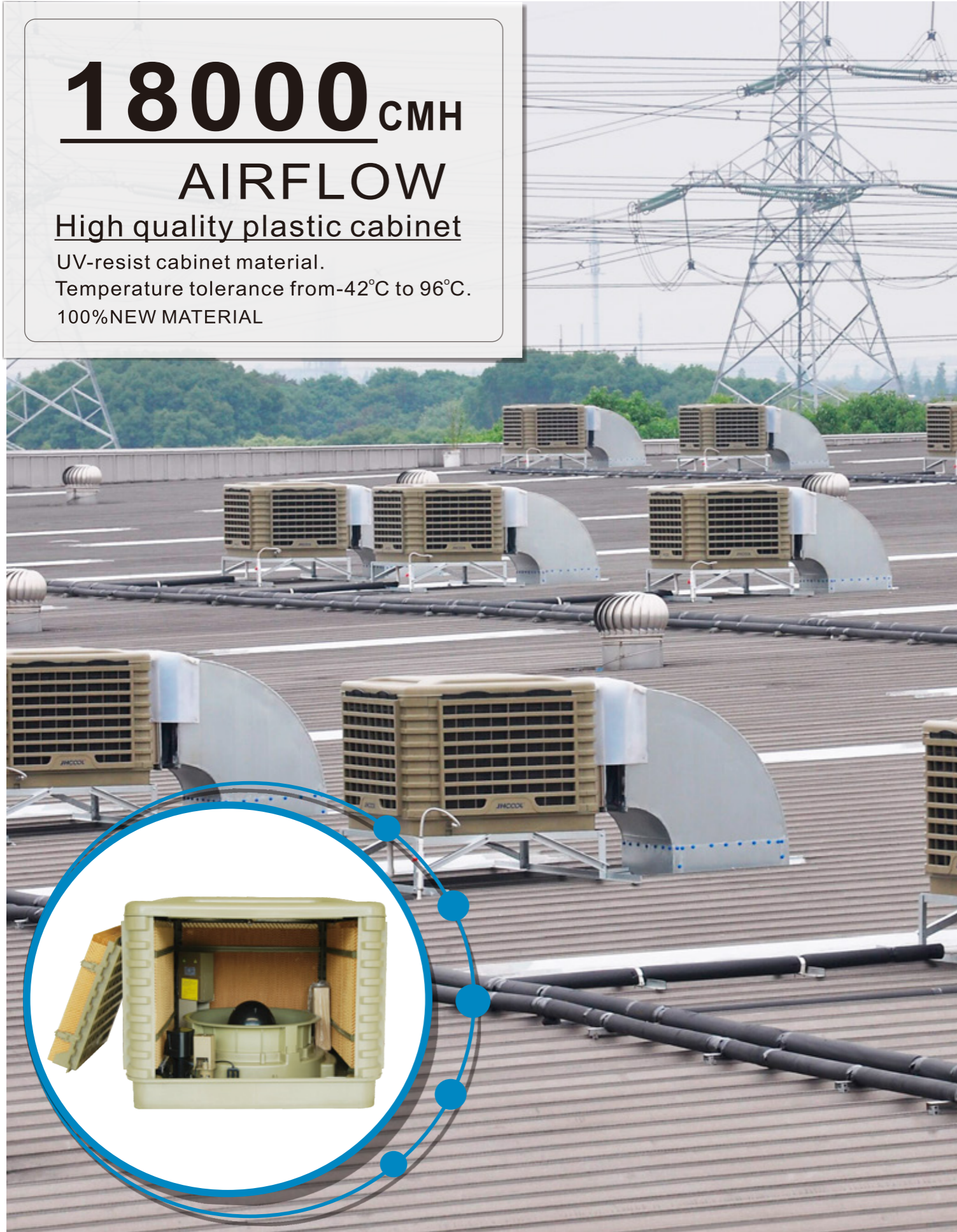
# 18000 CMH AIRFLOW

High quality plastic cabinet

UV-resist cabinet material.

Temperature tolerance from -42°C to 96°C.

100%NEW MATERIAL





Down discharge



Top discharge



Side discharge

## Product Parameters

Item	JH18AP-31D8-B1	JH18AP-10D8-B1	JH18AP-18D8-B1	JH18AP-19D8-B1
	JH18AP-31T8-B1	JH18AP-10T8-B1	JH18AP-18T8-B1	JH18AP-19T8-B1
	JH18AP-31S8-B1	JH18AP-10S8-B1	JH18AP-18S8-B1	JH18AP-19S8-B1
Power resource	3PH 380V/50/Hz	1PH 220V/50/Hz	1PH 220V/50/Hz	1PH 220V/50/Hz
Fan speed	1	16( Variable voltage)	16( inverter)	16( BLDC inverter)
Airflow	18000m <sup>3</sup> /h		Cover area	100-150m <sup>2</sup>
Air discharge	Down/Top/Size		Power	1.1KW
Fan type	Aixal		Pressure	180Pa
Noise	≤70dB(A)		Pad size	(675+30)×790×100mm
Dimension	1160×1160×940(Down)		Vent size	675×675mm(Down/Top)
	1160×1160×980(Top)			660×660mm(Side)
	1160×1240×940(Side)		Water tank	30L
Shut down clean	Optional		Water consumption	15-20L/h
Auto water inlet	Yes		Overload protection	Yes
Auto water drain	Yes		Pre-cooling	Optional
Pump protection	Yes		Group control	Optional
Thermostatic	Yes			
Net weight	80kg/81.5kg/110kg (D/T/S)			75/76/102kg(D/T/S)
Gross weight	90kg/91.5kg/120kg(D/T/S)			85/86/112kg(D/T/S)
Intelligent clean	No	No	Yes	Yes
Exhaust	No	No	Yes(Down/Top)	Yes(Down/Top)
Control type	LCD+Remote	Intelligent touch screen control+ remote		
Packed size (assembled)	1170×1170×1090mm(Down)			
	1170×1170×1160mm(Top)			
	1170×1250×1090mm(Side)			
Packed size(skd)	1120×1120×430mm+900×760×570mm(Down)			
loading Quantity	Assembled:20/40pcs(Down/Top)			
	SKD:30/72pcs(Down)			



Down discharge



Top discharge

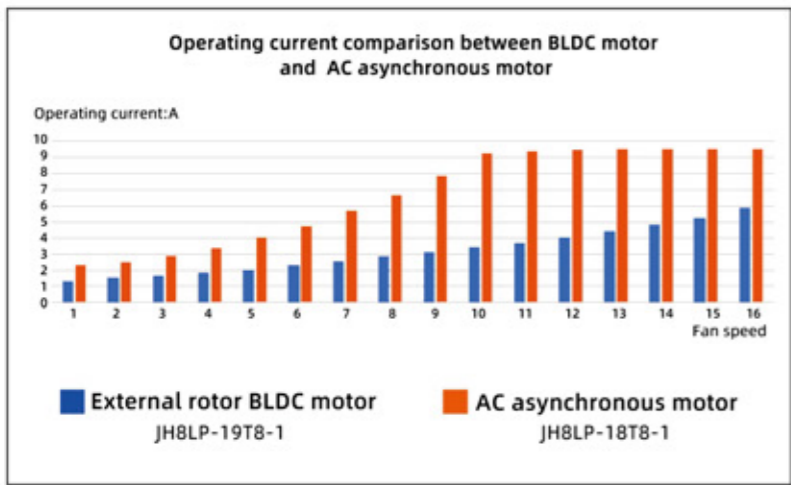
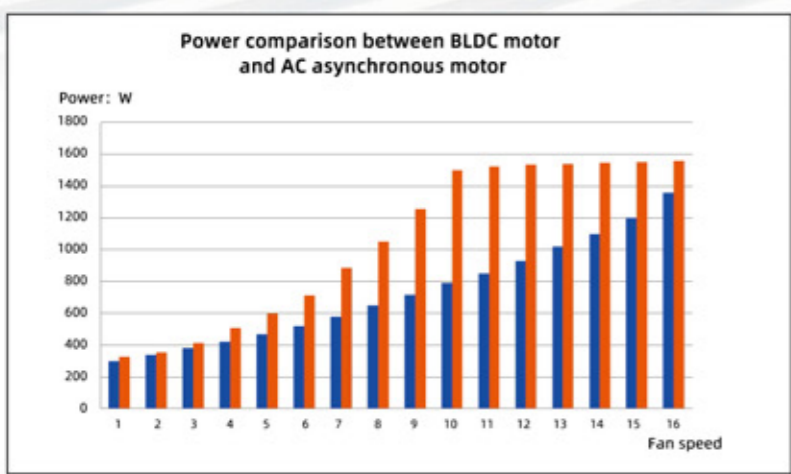
## Product Parameters

Item	JH18AP-31D3-B2	JH18AP-10D8-B2	JH18AP-18D8-B2
	JH18AP-31T3-B2	JH18AP-10T8-B2	JH18AP-18T8-B2
Power resource	3PH 380V/50/Hz	1PH 220V/50/Hz	1PH 220V/50/Hz
Fan speed	1	16( Variable voltage)	16( inverter)
Airflow	18000m <sup>3</sup> /h	Cover area	100-150m <sup>2</sup>
Air discharge	Down/Top	Power	1.1KW
Fan type	Aixal	Pressure	180Pa
Noise	≤70dB(A)	Pad size	(620+30)×770×100mm
Dimension	1160×1160×900(Down)	Vent size	675×675mm
	1160×1160×940(Top)	Water consumption	15-20L/h
Water tank	30L	Overload protection	Yes
Shut down clean	Optional	Pre-cooling	Optional
Auto water inlet	Yes	Group control	Optional
Auto water drain	Yes		
Pump protection	Yes		
Thermostatic	Yes		
Net weight	77kg/78kg (D/T)		
Gross weight	87kg/88kg (D/T)		
Intelligent clean	No	No	Yes
Exhaust	No	No	Yes
Control type	LCD+Remote	Intelligent touch screen control+ remote	
Packed size (assembled)	1170×1170×1090mm(Down)		
	1170×1170×1160mm(Top)		
	1170×1250×1090mm(Side)		
Packed size(skd)	1120×1120×430mm+900×760×570mm(Down)		
loading Quantity	Assembled:20/40pcs(Down/Top),16/36pcs(Side)		
	SKD:30/70pcs(Down)		



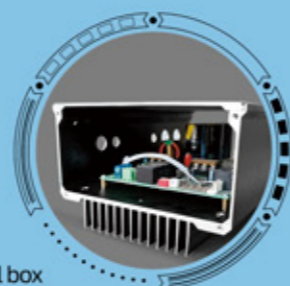


External rotor BLDC motor VS AC asynchronous motor



**External rotor BLDC motor**

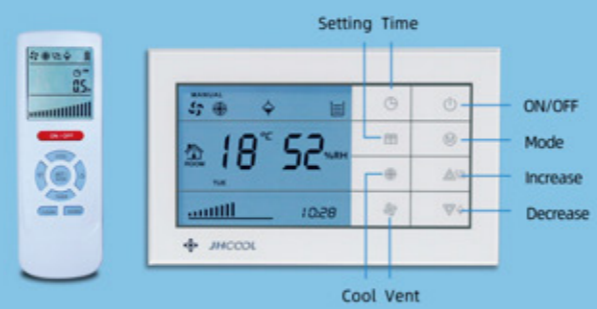
- Low power consumption
- remarkable energy saving effect



**Aluminum alloy waterproof control box**

- Heat sink
- Aluminum alloy waterproof control box

Wall controller+Remote



Down discharge



Top discharge



Side discharge

Product Parameters

Item	JH18LP-31D8-1	JH18LP-18D8-1	JH18LP-19D8-1
	JH18LP-31T8-1	JH18LP-18T8-1	JH18LP-19T8-1
	JH18LP-31S8-1	JH18LP-18S8-1	JH18LP-19S8-1
Power resource	3PH380V/50Hz	1PH 220V/50Hz	1PH 220V/50Hz
Fan speed	1	16 (AC motor+INVERTER)	16 (DC brushless motor+INVERTER)
Airflow	18000m <sup>3</sup> /h		
Fan type	centrifugal		
Noise	≤70dB(A)		
Dimension	1160×1160×940(Down)		
	1160×1160×980(Top)		
	1160×1240×940(Side)		
Shut down clean	Optional		
Auto water inlet	Yes		
Auto water drain	Yes		
Pump protection	Yes		
Thermostatic	Yes		
Net weight	77/96/96kg(D/T/S)		
Gross weight	87/106/106kg(D/T/S)		
Power	1.8KW	1.8KW	1.1KW
Intelligent clean		Yes	
Control type	Intelligent touch screen control + remote		
Packed size (assembled)	1170×1170×1090mm(Down)		
	1170×1170×1160mm(Top)		
	1170×1250×1090mm(Side)		
loading Quantity	Assembled:20/40pcs(Down/Top)		





T9

## Product Parameters

Item	T9
Airflow	18000m³/h
Cover area	100-150m²
Power	1.1KW
Fan type	Axial
Power resource	1PH 220V/50Hz
Fan speed	16(TRAIC)
Pressure	180Pa
Noise	≤73dB(A)
Dimension	1160×1160×1760mm
Pad size	(620+30)×770×100mm
Vent size	640×440mm
Water tank	30L
Water consumption	15-20L/h
Net Weight	90kg
Gross Weight	100kg
Operating Weight	140kg
Control type	LCD+Remote
Swing	Auto(Left/Right),Manual (Up/Down)
Auto water inlet	Yes
Pre-dust filter	Optional
Pump protection	Yes
Thermostatic	Optional
Pre-cooling	Optional
Packed size	1170×1170×1120mm+730×890×370mm
Loading Quantity	18/40pcs per 20/40HQ container



Down discharge

Top discharge

Side discharge

## Product Parameters

Item	JH22AP-32D3	JH22AP-18D8	JH30AP-32D3	JH30AP-38D8
	JH22AP-32T3	JH22AP-18T8	JH30AP-32T3	JH30AP-38T8
	JH22AP-32S3	JH22AP-18S8	JH30AP-32S3	JH30AP-38S8
Air discharge	Down/Top/Side			
Fan type	Axial(11 Blades)			
Airflow	22000m³/h		30000m³/h	
Pressure	200Pa		300Pa	
Cover area	180-220m²		250-300m²	
Fan speed	2	16(Inverter)	2	16(Inverter)
Power resource	3PH 380V/50Hz	1PH 220V/50Hz	3PH 380V/50Hz	3PH 380V/50Hz
Power	0.8KW/1.6KW	1.6KW	1KW/3KW	3KW
Noise	≤73dB(A)		≤78dB(A)	
Water tank	40L		Water consumption	25-30L/h
Dimension	1340×1340×1130 mm(Down)		Pad size	(840+30)×900×120mm
	1340×1340×1150 mm(Top)		Vent size	800×800mm
	1340×1390×1130 mm(Side)		Pre-dust filter	Optional
Control type	LCD+Remote		Water inlet	Auto
Water drain	Auto		Pump protection	Yes
Phase loss protection	Yes		Overload protection	Yes
Gross Weight	135kg/135kg/150kg		Operating Weight	175kg/175kg/180kg
Net Weight	120kg/120kg/125kg		125kg/125kg/130kg	
Packed size	1360×1360×1280, 1360×1360×1420, 1360×1410×1280mm(D/T/S)			
Packed size(skd)	1310×1310×600mm,1080×780×935mm(Down)			
	1310×1310×640mm,1080×780×935mm(Top)			
Loading Quantity	Assembled:4/16pcs per 20ft/40HQ container			
	SKD:12/32pcs per 20/40HQ (Down/Top)			







Down discharge



Top discharge



Side discharge

## Product Parameters

Item	JH18LP-18D8-1	JH35LM-32T2	JH50LM-32T2
	JH18LP-18T8-1	JH35LM-32S2	JH50LM-32S2
	JH18LP-18S8-1	JH35LM-32S2	JH50LM-32S2
Material	Plastic	Metal	Metal
Airflow	16000m³/h	35000m³/h	50000m³/h
Pressure	180Pa	400Pa	500Pa
Power	1.8KW	8KW	13.5KW
Fan type	Centrifugal	Centrifugal	Centrifugal
Speed	16(Inverter)	2	2
Noise	≤70dB(A)	≤80dB(A)	≤85dB(A)
Cover area	100-120m²	220-350m²	350-500m²
Water tank	30L	70L	100L-120L
Water consumption	15-20L/h	30-40L/h	65-88L/h
Power resource	1PH 220V/50Hz	3PH 380V/50Hz	3PH 380V/50Hz
Control type	Intelligent touch screen control	Industrial button	Industrial button
Net weight	85kg/107kg/107kg	815kg	1200kg
Dimension	1160x1160x940mm	/	/
	1160x1160x980mm	1750x1630x1530mm	2100x2100x1925mm
	1160x1240x940mm	1750x1670x1480mm	2100x2100x1845mm
Pad size	(675+30)x790x100mm	(1120+30)x550x100mm	(1485+30)x790x120mm
Vent size	660x660mm	805x805mm	1015x870mm
Packed size	1170x1170x1090mm	1750x1630x1610mm	2100x2100x2005mm
		1750x1670x1560mm	2100x2180x1925mm
Loading quantity	20/40pcs(D/T), 16/36pcs(S)	3/7pcs	2/5pcs
Water inlet/drain	Auto	Auto	Auto
Pre-dust filter	Auto	Auto	Auto
Pump protection	Yes	No	No



JH168



JH801



JH802

## Product Parameters

Item	JH168	JH801	JH802
Control type	LCD+Remote	LCD+Remote+Humidity indicator	LCD+Remote+Bluetooth speaker
Airflow		8000m³/h	
Power		380W	
Fan type		≤ Axial	
Speed		3	
Noise		57dB(A)	
Cover area		50-70m²	
Water tank		57L	
Water consumption		8-10L/h	
Power resource		1PH 220V/50Hz	
Temperature display		Yes	
Ionizer		Yes	
Auto Swing		Left/Right	
Net weight		31kg	
Gross weight		34kg	
Dimension		800x480x1380mm	
Pad size		(685+30)x198x50mm,(685+30)x640x100mm,(560+30)x198x50mm	
Packed size		810x490x1290mm	
Loading quantity		55/132pcs	
Water inlet		Auto/Manual	
Water drain		Manual	
Pre-dust filter		Yes	
Pump protection		Yes	





JH163



JH165



JH165E

### Product Parameters

Item	JH163	JH165	JH165E
Airflow	1600m <sup>3</sup> /h	4500m <sup>3</sup> /h	
Power	100W	160W	
Fan type	Centrifugal	Axial	
Speed	3	3	
Noise	≤50dB(A)	≤61dB(A)	
Cover area	15-20m <sup>2</sup>	30-35m <sup>2</sup>	
Water tank	15L	40L	
Water consumption	1-2L/h	3-5L/h	
Power resource	1PH 220V/50Hz	1PH 220V/50Hz	
Control type	LCD+Remote	LCD+Remote	Manual
Temperature display	Yes	Yes	
Ionizer	Yes	Yes	
Auto Swing	Left/Right	Left/Right	
Net weight	9.5kg	22kg	
Dimension	360x416x874mm	712x466x1180mm	
Packed size	340x460x925mm	710x465x1220mm	
Loading quantity	190/428pcs	62/149pcs	
Water inlet	Manual	Auto/Manual	
Water drain	Manual	Manual	
Pre-dust filter	Yes	Optional	
Pump protection	No	Yes	



JH157

### Product Parameters

Item	JH157
Airflow	3500m <sup>3</sup> /h
Power	160W
Fan type	Axial
Speed	3
Noise	≤62dB(A)
Cover area	25-30m <sup>2</sup>
Water tank	45L
Water consumption	3-5L/h
Power resource	1PH 220V/50Hz
Control type	LCD+Remote
Ionizer	Yes
Auto Swing	Left/Right
Net weight	28kg
Gross weight	32kg
Dimension	550x408x1665mm
Pad size	(775+30)x445x100mm
Packed size	580x466x1720mm
Loading quantity	65/152pcs
Water inlet	Auto/Manual
Water drain	Manual
Pre-dust filter	Optional
Pump protection	Yes





JH181



JH601



A8



## Product Parameters

Item	JH181	JH601	A8
Airflow	3000m³/h	6000m³/h	8000m³/h
Power	100W	250W	375W
Fan type	Axial	Axial	Axial
Speed	3	3	3
Noise	≤50dB(A)	≤62dB(A)	≤66dB(A)
Cover area	20-25m²	50-70m²	/
Water tank	26L	57L	35L
Water consumption	2-3L/h	8-10L/h	/
Power resource	1PH 220V/50Hz	1PH 220-240V/50Hz	1PH 220V/50Hz
Control type	LCD+Remote	Manual	LCD+Remote
Temperature display	Yes	No	Yes
Ionizer	Yes	No	No
Auto Swing	Left/Right	Left/Right	Left/Right
Net weight	11.4kg	28kg	33.2kg
Gross weight	13.4kg	31kg	37.4kg
Dimension	492x365x956mm	800x480x1380mm	800x695x1025mm
Packed size	520x405x1000mm	810x490x1290mm	800x500x1045mm
Loading quantity	120/301pcs	55/132pcs	52/134pcs
Water inlet	Manual	Auto/Manual	Auto
Water drain	Manual	Manual	Manual
Pre-dust filter	Yes	Yes	Yes
Pump protection	Yes	No	Yes

