

EVAPORATIVE AIR COOLER

COOLING / VENTILATION / FRESH AIR



JHCOOL® 晶辉

FUJIAN JINGHUI ENVIRONMENTAL TECHNOLOGY CO.,LTD

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About JHCOOL

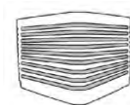


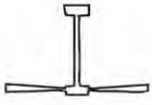


Our company, Fujian Jighui Environmental Technology Co., Ltd. is the leading manufacturer of evaporative air cooler in the world. Our factory produces all kinds of evaporative air coolers, which locates in Fuzhou, Fujian Province, southeast of China, with the most convenient transportation facilities, for example, sea port, airport, high speed train, express ways etc.

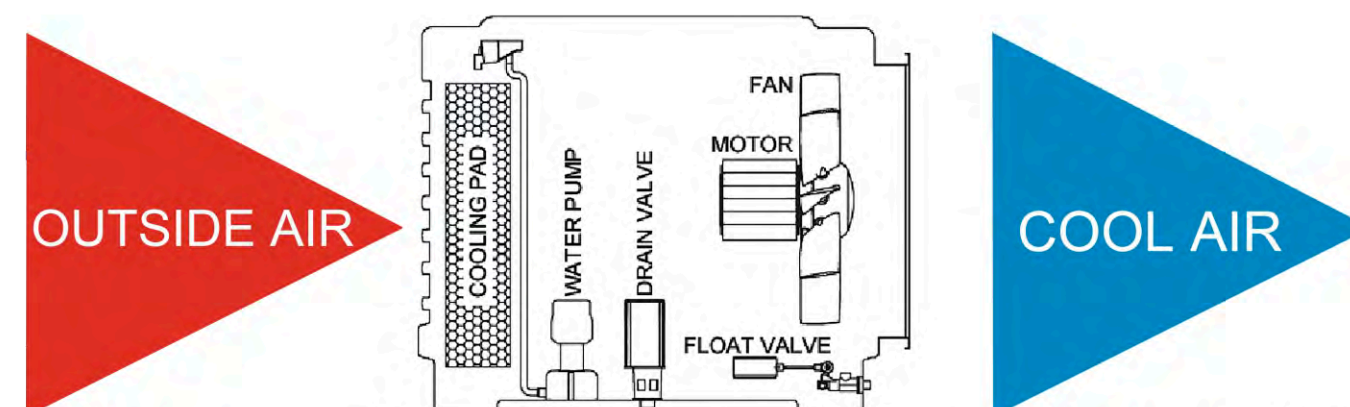
Our company specializes in manufacturing evaporative air cooler. After years' fast development, we are leading evaporative air cooler technique in the world. Now, in the evaporative air cooler industry, we produce various kinds of evaporative air coolers, like portable, window, industrial unit. Our products own CE, CB, SAA, SGS, and ISO certificates.

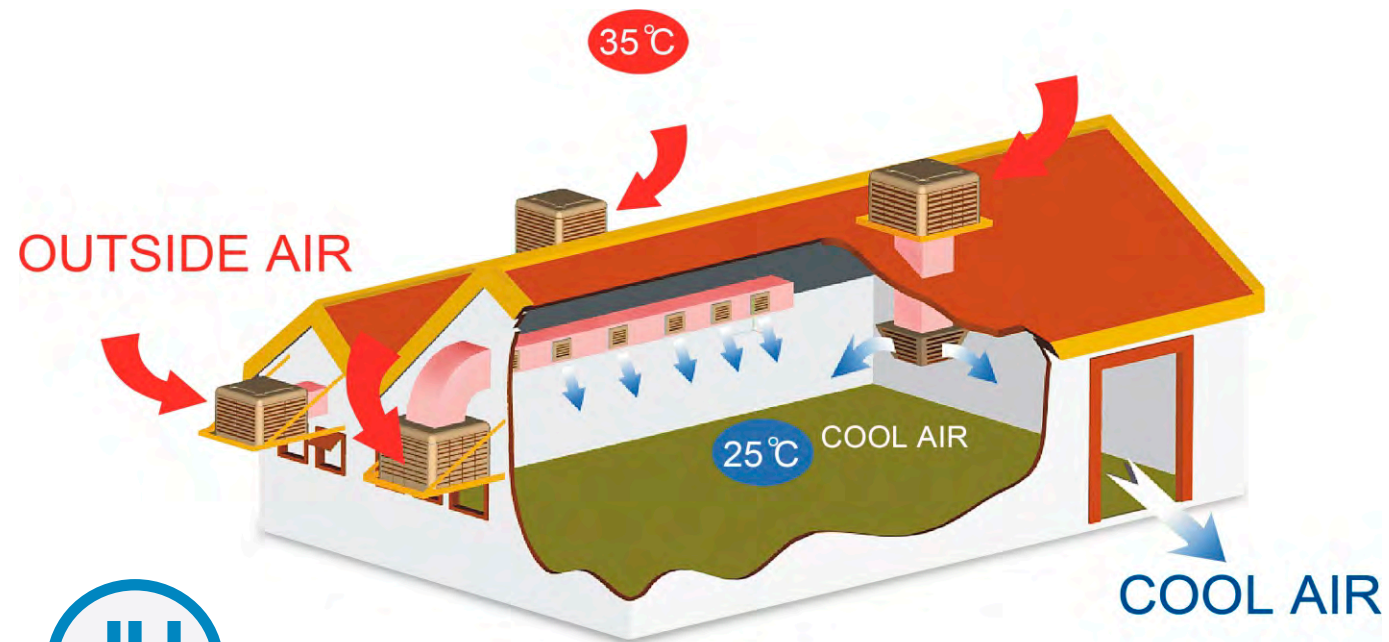
Insisting strict quality producing standard, JHCOOL quality has been approved by world users. By well-management, our cost level is the lowest in the industry. Our prices are most competitive in world market.

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

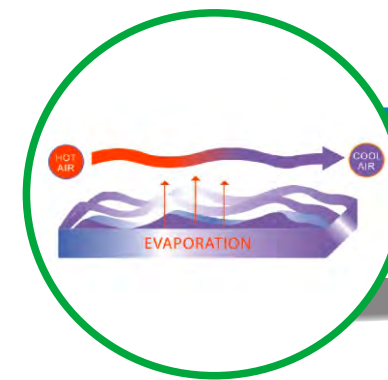




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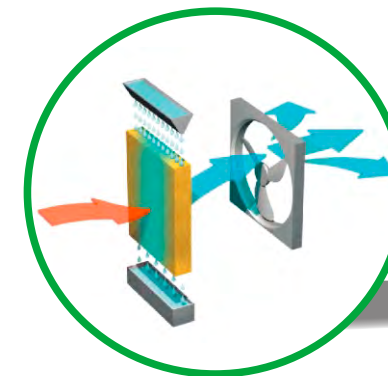
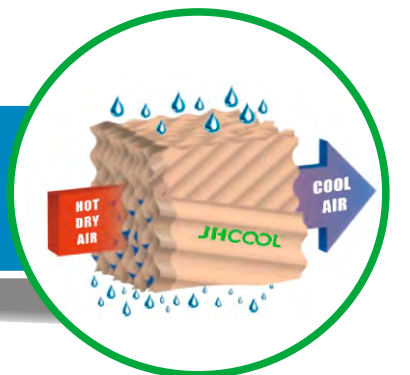
evaporative air cooler is widely used in an open or semi-open area, such as factory, warehouse, greenhouse etc. It's a green cooling system, no CFC, no compressor, power consumption is only 1/8 of air conditioner. It's easier to be installed in the wall, window and roof, both cooling and ventilation functions.

APPLICATIONS OF EVAPORATIVE AIR COOLER



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 wetted by water recycling, and pushed out by powerful blower to certain areas.

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

CE

CB

EMC

SAA

nqa.
ISO 9001
Registered

UKAS
QUALITY
MANAGEMENT
015

18000_{CMH}

AIRFLOW

High quality plastic cabinet

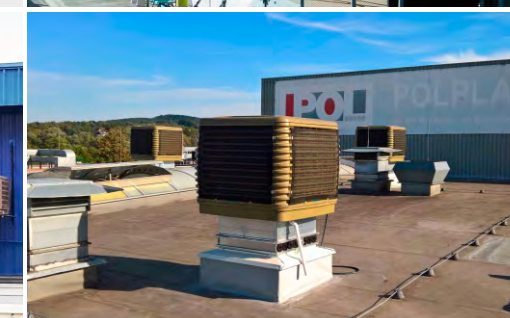
UV-resist cabinet material.

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

100%NEW MATERIAL



PROJECT CASE





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	18000m³/h		Cover area	100-150m²
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 sizs (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	18000m³/h	Cover area	100-150m²
Air discharge	Down/Top	Power	1.1KW
Fan type	Aixal	Pressure	180Pa
Noise	≤70dB(A)	Pad size	(620+ 30)×770x100mm
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 sizs	1170×1170×1090mm(Down)		
(assembled)	1170x1170x1160mm(Top)		
Packed size(skd)	1120×1120×430mm+900×760×570mm(Down)		
loading Quantity	Assembled:20/40pcs(Down/Top)		
	SKD:30/70pcs(Down)		



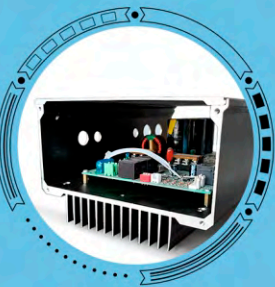


External rotor BLDC motor

- Low power consumption
- remarkable energy saving effect
- Long lifespan
- Smooth operation
- low noise

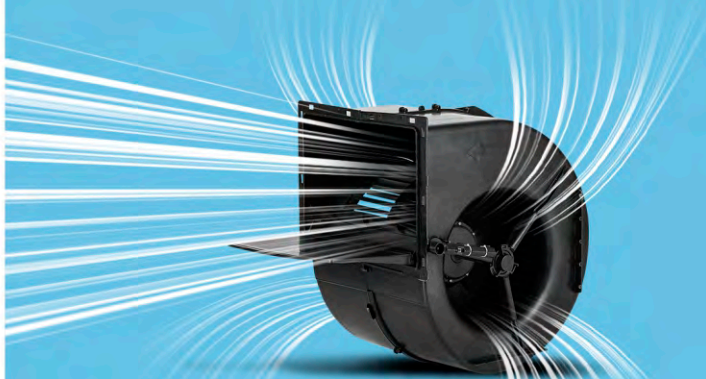
Aluminum alloy waterproof control box

- Heat sink
- Aluminum alloy waterproof control box



DC brushless centrifugal fan

Double Side Air Inlet



Product name	DC brushless centrifugal fan	Air volume (m³/h)	18000
Model No.	CF18DCM	Air pressure (Pa)	200
Material	PP+15%GF	Noise dB(A)	≤70
Impeller size(mm)	φ470×381	IP rating	IP55
Air outlet size (inner)mm	492×372	Insulation class	H
Motor type	DC	Operating environment	-35-55℃
Motor power (kW)	1.5	Dimension(L*W*H)	600*700*760mm
Fan speed (r/min)	520	Weight (include motor) kg	30
Input power	AC 220V 50Hz	Weight (exclude motor) kg	17



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	
Fan speed	1		16 (AC motor+INVERTER)	16(DC brushless motor+INVERTER)
Airflow	18000m³/h		Air discharge	Down/Top/Side
Fan type	centrifugal		Cover area	100-150m²
Noise	≤70dB(A)		Pressure	200Pa
Dimension	1160×1160×940(Down)		Pad size	5090-(675+30)*790*100mm
	1160×1160×980(Top)		Water tank	30L
	1160×1240×940(Side)		Water consumption	15-20L/h
Shut down clean	Optional		Overload protection	Yes
Auto water inlet	Yes		Pre-cooling	Optional
Auto water drain	Yes		Group control	Optional
Pump protection	Yes		Vent size	675×675mm(Down)
Thermostatic	Yes			660×660mm(Top)
Net weight	77/96/96kg(D/T/S)			660×350mm(Side)
Gross weight	87/106/106kg(D/T/S)		Exhaust	No
Power	1.8KW		1.8KW	1.1KW
Intelligent clean	Yes			
Control type	Intelligent touch screen control + remote			
Packed sizes (assembled)	1170×1170×1090mm(Down)			
	1170×1170×1160mm(Top)			
	1170×1250×1090mm(Side)			
loading Quantity	Assembled:20/40pcs(Down/Top)			





T9 Single air outlet



T9 Double air outlets



Product Parameters

Item	JH18AP-10Y3-A2	JH18AP-18Y8-A2
Fan speed	JH18AP-10Y3-B2	JH18AP-18Y8-B2
Control type	16(variable voltage)	16(inverter)
Airflow	LCD wall controller+remote	Intelligent touchable wall controller+remote
Cover area	18000 m ³ /h	
Power	100 - 150 m ²	
Fan type	1.1kW	
Input power	Axial	
Pressure	1PH 220V50Hz	
Air discharge	180Pa	
Noise	Side	
Pad size	≤73dB(A)	
Water tank	(620+ 30)x770x100mm	
Water consumption	30L	
Swing	15-20L/H	
Auto water inlet	Auto(left/Right), manual(Up/Down)	
Pump protection	yes	
Dimension	yes	
Vent Qty/size	1160x1160x1760mm for T9 single outlet	
Net weight	1160x1160x1670mm for T9 double outlet	
Gross weight	1pc 640x440mm for T9 single outlet	
Package size	2pcs 640x440mm for T9 double outlet	
Loading quantity	90kg for T9 single outlet	
	95kg for T9 double outlet	
	100kg for T9 single outlet	
	105kg for T9 double outlet	
	1170x1170x1120mm+730x890x370mm for T9 single outlet	
	1170x1170x1120mm+630x1050x370mm for T9 double outlet	
	18/40pcs per 20/40HQ container	



Down discharge



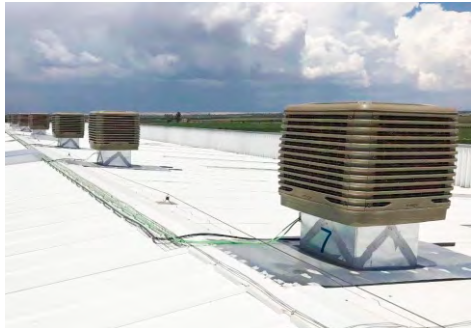
Top discharge



Side discharge

Product Parameters

Item	JH22AP-32D8	JH22AP-18D8	JH30AP-32D8	JH30AP-38D8
Air discharge	JH22AP-32T8	JH22AP-18T8	JH30AP-32T8	JH30AP-38T8
Fan type	JH22AP-32S8	JH22AP-18S8	JH30AP-32S8	JH30AP-38S8
Airflow	Down/Top/Side			
Pressure	Axial(11Blades)			
Cover area	22000m3/h			30000m ³ /h
Fan speed	200Pa			300Pa
Power resource	180-220m2			250-300m ²
Power	2	16(Inverter)	2	16(Inverter)
Noise	3PH 380V/50Hz	1PH 220V/50Hz	3PH 380V/50Hz	3PH 380V/50Hz
Water tank	0.8KW/1.6KW	1.6KW	1KW/3KW	3KW
Water consumption	<73dB(A)			<73dB(A)
Pad size	40L	25-30L/h		
Vent size	1340 × 1340 × 1130 mm (Down)	(840+30) × 900 × 120mm		
Pre-dust filter	1340 × 1340 × 1150 mm (Top)	800 × 800mm		
Water inlet	1340 × 1390 × 1130 mm (Side)	Optional		
Pump protection	LCD+Remote			Auto
Overload protection	Auto			Yes
Operating Weight	Yes			Yes
Gross Weight	135kg/135kg/150kg			175kg/175kg/180kg
Net Weight	120kg/120kg/125kg			125kg/125kg/130kg
Packed size	1360x1360 × 1280,1360x1360 × 1420,1360x1410 × 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)			





Side discharge



Top discharge



Side discharge

Product Parameters

Item	/	/	/
	JH25LP-39S8	JH35LM-32T2	JH50LM-32T2
Material	Modified PP	Metal	Metal
Airflow	25000 m³/h	35000m³/h	50000m³/h
Pressure	400 Pa	400Pa	500Pa
Power	3kW	8KW	13.5KW
Fan type	Centrifugal	Centrifugal	Centrifugal
Speed	16(Inverter)	2	2
Noise	≤78dB(A)	≤80dB(A)	≤85dB(A)
Cover area	250-300 m²	220-350m²	350-500m²
Water tank	40 L	70L	100L-120L
Water consumption	25-30L/h	30-40L/h	65-88L/h
Power resource	3PH 380V/50Hz	3PH 380V/50Hz	3PH 380V/50Hz
Control type	Intelligent touch screen control	Industrial button	Industrial button
Net weight	125 Kg	815kg	1200kg
Dimension	/	/	/
	1340x1390x1130 mm	1750×1630×1530mm	2100×2100×1895mm
Pad size	5090-(840+30)x900x120mm	1750×1665×1480mm	2125×2100×1845mm
Vent size	800x720mm	(1120+30)x550x100mm	(1485+30)×790x120mm
Packed size	1360x1410x1280mm	1760×1640×1640mm	2110×2110×2000mm
		1760×1675×1590mm	2135×2110×1955mm
Loading quantity	16pcs 40'HQ	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	JH 168	JH 801	JH 802
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	75L		
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)×198x50mm		
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	JH 165	JH165E
Airflow	1600m³/h	4500m³/h	
Power	100W	160W	
Fan type	Centrifugal	Axial	
Speed	3	3	
Noise	≤50dB(A)	≤61dB(A)	
Cover area	15-20m²	30-35m²	
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	715×470x1280mm	
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	JH 157
Airflow	3500m³/h
Power	160W
Fan type	Axial
Speed	3
Noise	≤62dB(A)
Cover area	25-30m²
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



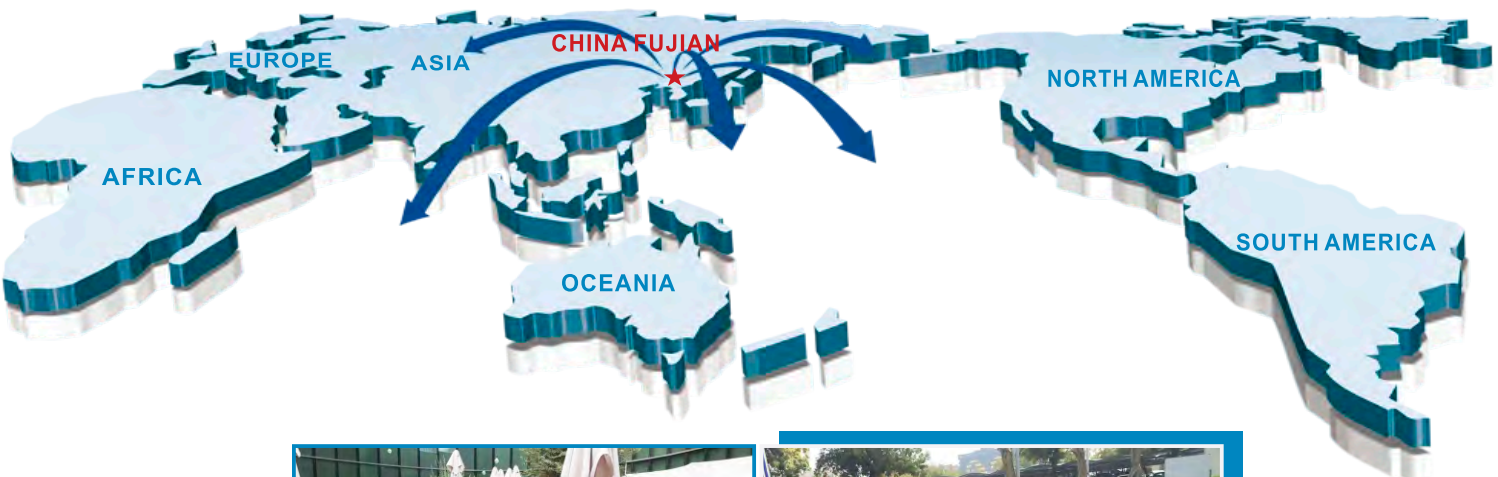
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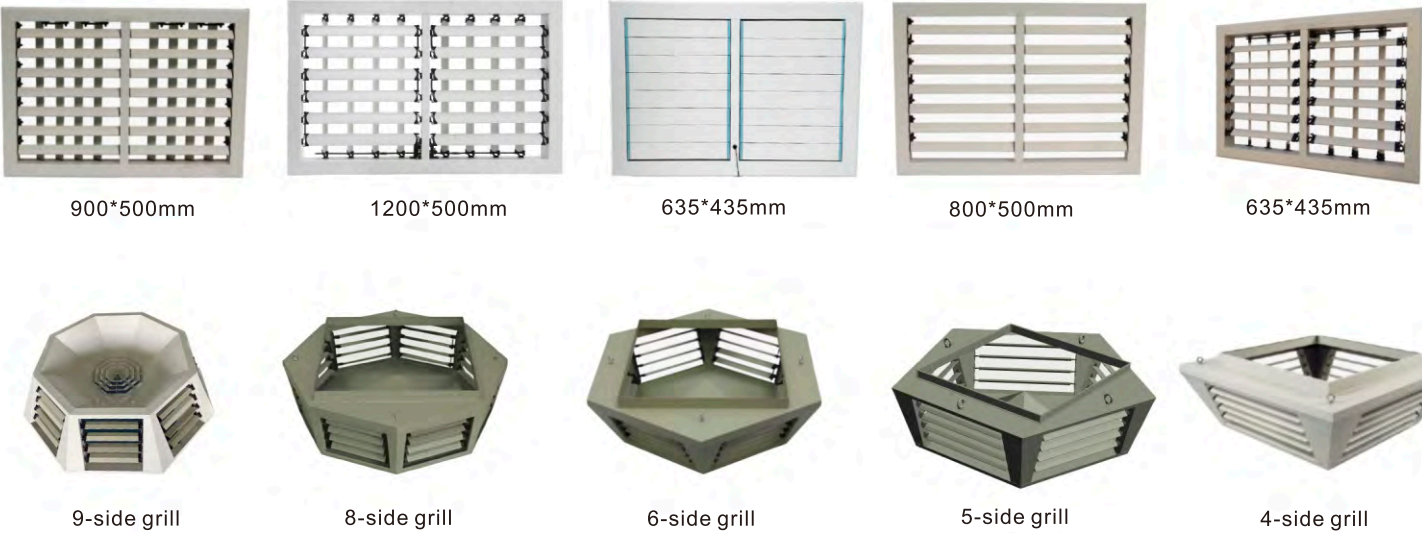
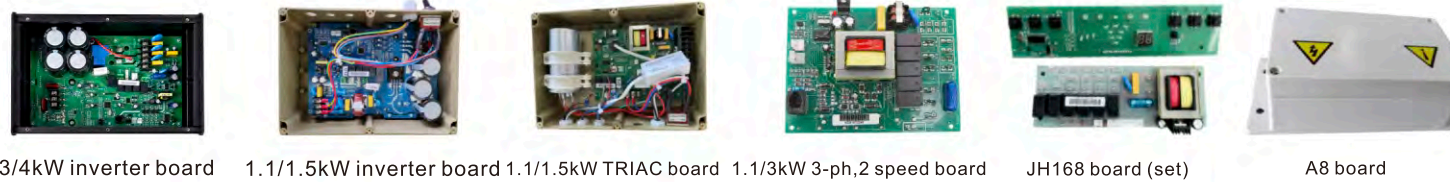
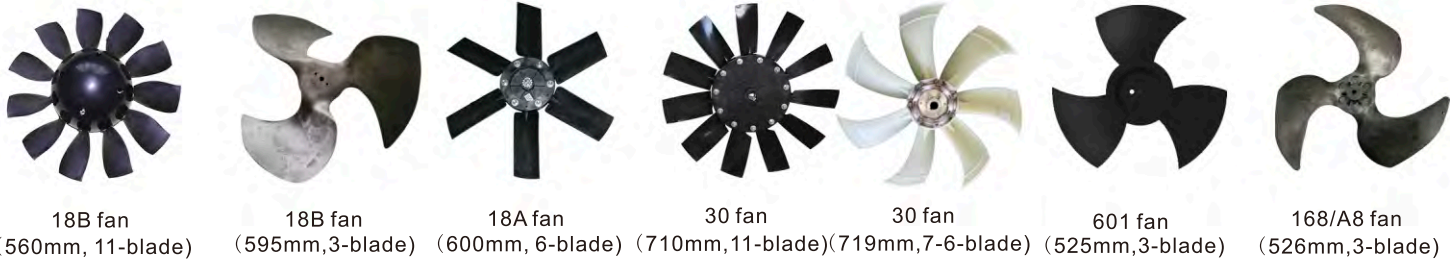
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Product Parameters

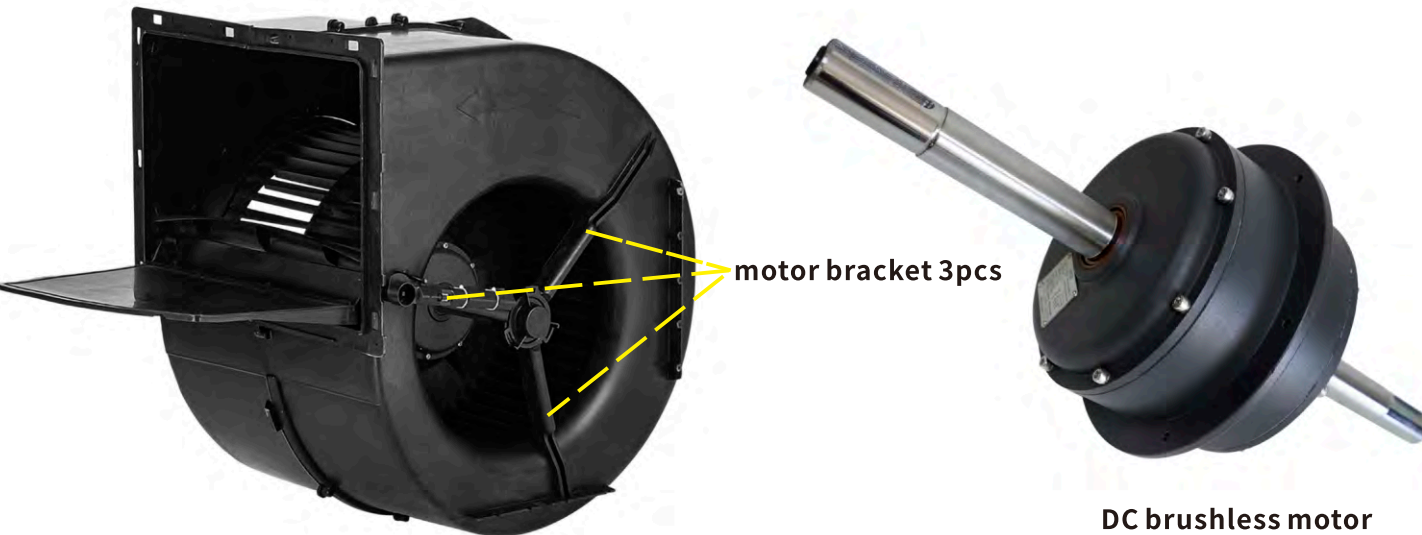
Item	JH 181	JH 601	A8
Airflow	3000m³/h	6000m³/h	8000m³/h
Power	100W	250W	375W
Fan type	Axial	Axial	Axial
Speed	3	3	3
Noise	≤50dB(A)	≤62dB(A)	≤66dB(A)
Cover area	20-25m²	50-70m²	/
Water tank	26L	75L	35L
Water consumption	2-3L/h	8-10L/h	/
Power resource	1PH 220V/50Hz	1PH220-240V/50Hz	1PH 220V/50Hz
Control 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



EVAPORATIVEAIR COOLER PARTS



EVAPORATIVEAIR COOLER PARTS



Product name	DC brushless centrifugal fan	Air volume (m ³ /h)	18000
Model No.	CF18DCM	Air pressure (Pa)	200
Material	PP+15%GF	Noise dB(A)	≤70
Impeller size(mm)	Φ470×381	IP rating	IP55
Air outlet size (inner)mm	492×372	Insulation class	H
Motor type	DC	Operating environment	-35-55℃
Motor power (kW)	1.5	Dimension(L*W*H)	600*700*760mm
Fan speed (r/min)	520	Weight (include motor) kg	30
Input power	AC 220V 50Hz	Weight (exclude motor) kg	17