



EVAPORATIVE AIR COOLER

More Energy Saving Solutions



MAKE AIR HANDLING SIMPLE AND PERFECT

CONTENTS

About Aolan	Page 01-04
Principle	Page 05-07
Product Display	Page 08-38
•Home Appliance Applications	Page 08-14
•Outdoor Applications	Page 15-22
•Industrial Applications	Page 23-36
•Extraction Fan-evaporative Cooling Pad System	Page 37-38
Design And Selection	Page 39-40
Project Cases	Page 41-42
Our Customers & Test Reports	Page 43-44



Aolan Yixu Industry Park

Company Profile

Aolan (Fujian) Industry Co.,Ltd is a high-tech enterprise which collects the research development, manufacture, marketing, as well as service on evaporative air coolers, indirect evaporative cooling system (dew point) and liquid desiccant air conditioning (LDAC). Since bringing in the energy saving coolers in 1998, Aolan had filled the blank market of Evaporative Air Coolers in China. In 2012, Aolan newly developed dew point indirect evaporative air cooler, liquid desiccant air conditioner , D.P.T. Cooling Tower, Evaporative Cooling Media, Air Purifier and HVLS Fan.

Aolan strictly enforces ISO9001, ISO14001,OHSAS 18001 and so far, gained more than 40 patents of national invention,utility models and industrial design. With years' development, Aolan has grown into the leading enterprise in evaporative cooling and LDAC.

In the past years, Aolan has set up more than 40 branch offices, and Aolan products have been widely used in different fields, such as industry, trade, domestic & civil use, and communication (data center, base station) etc.

For international market, Aolan products have been approved by CE,SASO, BV, etc, and successfully exported to more than 70 countries and regions, including countries from Europe, America, Australia, Middle East, Asia, and Africa, etc.With years'development, Aolan has grown into a company who occupies the wide international market share.



Aolan Luoyuan Manufacture Base



China National Standards & Quality Certification

《Evaporative Air Cooler》
National Standard Maker

《Design of Heating, Ventilation and Air Conditioning of Industrial Buildings》
Participating Unit Of The National Standard

《Evaporative Cooling Media》
The Unit Responsible For Drafting The Industry Standard

《Requirements for Installation and Use of Evaporative Air Cooler》
The Unit Responsible For Drafting The Industry Standard

《Evaporative Air Conditioners for Computer and Data Processing Room》
The Unit Responsible For Drafting The Industry Standard

《Evaporative Cooling Refrigeration System Engineering Technical Regulations》
Industry Standard Participating Units

《Green Data Center Construction Technology Application Guide》
Industry Book Participating Units

《Engineering Technical Specifications for Temperature and Humidity Independent Control Air Conditioning System》
Association Standard Participating Unit

《Design and Installation of Evaporative Cooling Ventilation and Air Conditioning System》
Standard Design Atlas Participating Unit

《Data Center Evaporative Cooling Air Conditioning Technical Specifications》
The Group Standard Drafting Unit

《Data Center Evaporative Cooling Air Conditioning Equipment》
The Group Standard Drafting Unit



ROHS



REACH



CE



BV



CQC



SASO



OSHMS



CNAS



3C



CRAA



ISO 9001



ISO 14001

Laboratory Introduction

As a leading enterprise in China's evaporative cooling industry, AOLAN (Fujian) Industry Co., Ltd. has always attached great importance to the promotion of technology in enterprises development. At present, there are more than 50 R & D technicians.



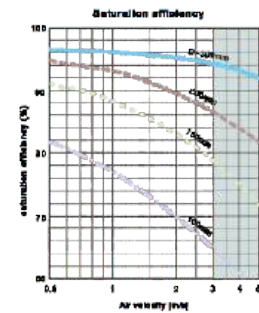
In 2009, AOLAN signed a cooperation agreement with China General Machinery Research Institute to design and build the first national standard " double enthalpy difference" comprehensive performance laboratory according to the standards of national laboratory.

As an important part of AOLAN R & D system, the laboratory is responsible for the product development test, performance testing and other important tasks, and provides an important platform support for the upgrading of AOLAN products.

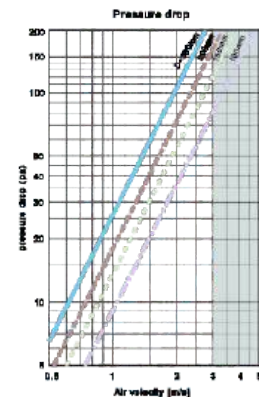


The laboratory will also become the transformation base of key technologies and new technologies in the industry, which will have a far-reaching impact on improving the sustainable innovation ability of China's evaporative cooling industry, realizing the leapfrog development of technology, and enhancing the competitiveness in the international market.

Evaporative Cooling Pad

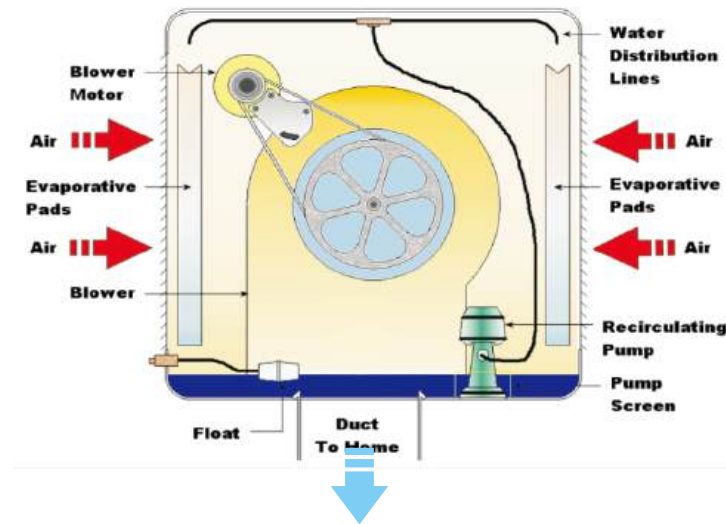


Legend for Saturation efficiency graph:
D=100 mm (blue line), D=150 mm (green line), D=200 mm (yellow line)
Risk of droplet (grey shaded area)



Characteristic:

- Saturation time<1min
- No split and no odor
- Head-on wind speed>3m/s
- Wind drag:<70Pa
- Fungus-resistance:Grade-1
- Evaporation cooling efficiency:>82%
- Water sucking altitude>50-70mm/5min



The air cooler will lower the room temperature but the maximum cooling effect is felt when a person is in the flow of air coming from the air cooler. For this reason, the evaporative air cooler is ideal for those rooms or open spaces where people congregate. Its portability makes it the ideal solution to solve heat problems for:

kitchens, factories, people gathered in offices, conference rooms, waiting rooms

The evaporative air cooler is ideal for keeping people cool at very low cost in those places where it is not practical or economical to install traditional air conditioning.

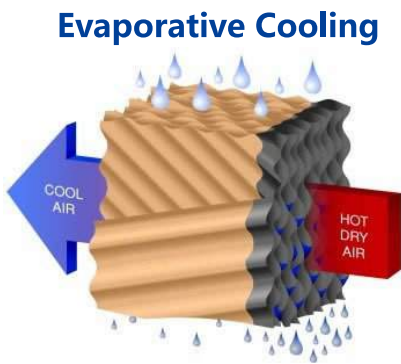


Supply Air Temperature

Ambient Dry Bulb Temperature (°C)	Relative Humidity								
	10%	20%	30%	40%	50%	60%	70%	80%	90%
10	4.0	4.5	5.5	6.0	7.0	7.5	8.0	9.0	9.5
15	7.5	8.5	9.5	10.5	11	12	13	13.5	14.3
20	11	12	13	14.5	15.5	16.5	17.5	18.5	19
25	14.5	16	17	18.5	20	21	22	23	24
30	17.5	19.5	21	22.5	24	25	26.5	28	29
35	20	23	25	26.5	28.5	30	31.5	32.5	34
40	23	26.5	29	31	32.5	34.5	N/A	N/A	N/A
45	26	29	32.5	35	N/A	N/A	N/A	N/A	N/A
50	29	32.5	36.5	N/A	N/A	N/A	N/A	N/A	N/A

*Supply air temperature is taken at outlet of fan.

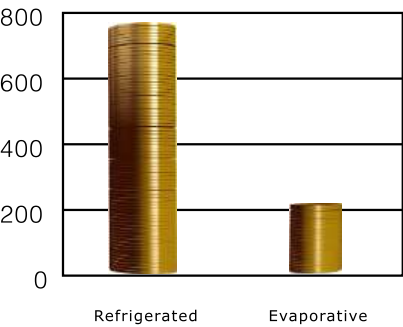
Air Conditioning Comparison



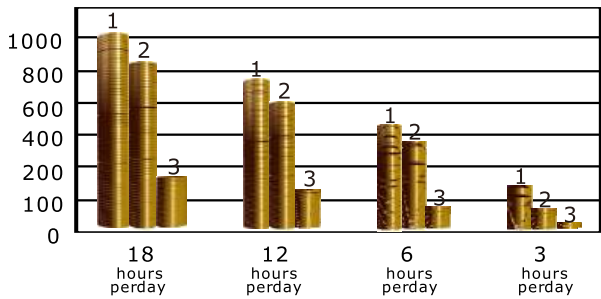
Temp.reduce depends on ambient condition
Efficiency increases with ambient temp.rising
Working in open situation with 100% fresh air
Humidity slightly increases,removing dust,bacteria,etc



Efficiency decreases with ambient temp.rising
Can work in a fixed temp
Only working in closed space
Not filter air,leave dust,bacteria inside the room



Equipment Cost



Running Cost

DESKTOP COOLER



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)
AZL001-ZC12AR	200	4	0.027(cooling) 0.83(heating)	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
0.13(cooling) 3.8(heating)	Axial	138*138	1-phase,2-speed	≤46
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Water Capacity (L)	Controller
175*185*175	106*30*136	1.6	0.4	Button
Heating&Cooling				
Optional				

Application

Applicable for various scenarios household,hotel,bedroom, livingroom, study,office.



MOVABLE SERIES



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(W)	Electrical Source(V/Hz)
AZL010-LY13A	1000	20	9	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
0.12	Centrifugal	200*320	1-phase,3-speed	≤46
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
270*285*700	195*268*32	7	6	821
Controllor	Pre-dust Filter			
Button	/			

Application

Supply fresh and cool air in homes,offices,bedroom,hotels and other occasions.



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(W)	Electrical Source(V/Hz)
AZL010-LY13B/LY13BR	1000	20	91709	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
0.167.49	Centrifugal	200*320	1-phase,3-speed	≤46≤42
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	water Capacity (L)	Qty/Full(40HQ)
270*285*700	195*268*32	78	6	821
Controllor	Heating&Cooling	Cooling Only		
LED+Remote	/√	/√		

Application

Fresh air for many occasions,such as living room,hotel,bedroom,office,etc.





Specification

Model		Airflow(m³/h)	Pressure(Pa)		Power(W)		Electrical Source(V/Hz)	
AZL012-LY13A/LY13AR		1200	30		50	50/1800	110/220 50/60	
Rated Current(A)		Fan Type	Vent Size (L*W)(mm)		Fan Speed		Noise(dBA)	
0.22	7.3	Centrifugal	300*240		1-phase,3-speed		≤52	≤51.5/43.5
Dimension (L*W*H)(mm)		Pad Size (L*W*H)(mm)	Net Weight (±3kg)		Water Capacity (L)		Qty/Full(40HQ)	
385*315*750		290*300*40	8	9	18		523	
Controller								
LED+Remote								

Application

Cool air for sitting room,bedroom,hotel,office and other occasions.



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(W)	Electrical Source(V/Hz)
AZL045-ZY13A	4500	50	40	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
0.7	Axial	420*420	1-phase,3-speed	≤55
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
550*330*990	450*600*60 162*600*50	14	35	275
Controller				
LED+Remote				

Application

Improve the air quality for homes,offices,restaurants,hotels and other occasions.





Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)
AZL035-LY13F	3500	120	0.1	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
1.1	Centrifugal	500*336	1-phase,3-speed	≤52.7
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
600*430*1380	433*858*65	30	40	130
Controller	Pre-dust Filter			
LED+Remote	√			

Application

Improve the air quality in exhibition center, meeting room, coffee shop, hotel, etc.



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)
AZL035-LY13G	3500	120	0.1	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
1.1	Centrifugal	500*336	1-phase,3-speed	≤52.7
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
600*430*1680	433*858*65	35	40	101
Controller	Pre-dust Filter			
LED+Remote	√			

Application

Improve the air quality in school, station wating room, exhibition center, hotel venue, etc.





Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)
AZL06-ZY13F	6000	60	0.15	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
1.25	Axial	540*540	1-phase,3-speed	≤56
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
750*550*1320	660*665*100	29	70/120	143
Controller	Pre-dust Filter			
LED+Remote	√			

Application

Improve the air quality in school, station waiting room, exhibition center, hotel venue, etc.



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)
AZL06-ZY13G	6000	60	0.15	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
1.25	Axial	540*540	1-phase,3-speed	≤68
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
795*550*1320	660*665*100 495*132*50	31	70/120	132/112
Controller	Pre-dust Filter			
LED+Remote	√			

Application

Improve the air quality in shopping malls, hotels, golf range, construction site, gymnasiums, etc.





Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)
AZL08-ZY13B AZL10-ZY13B AZL12-ZY13B	8000/10000/12000	90	0.2/0.25/0.3	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
2.2/2.3/2.5	Axial	654*673	1-phase,3-speed	≤60
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
842*532*1448	641*703*100 210*580*60	33	90	108
Controller	Pre-dust Filter			
LED+Remote	√			

Application

Improve the air quality in church, internet bar, estaurant kitchen, auditoria, high-speed rail station ,etc.



Specification

Model	Airflow(m³/h)	Power(W)	Electrical Source(V/Hz)	Fan Speed
AZL-120	12000	450	110/220 50/60	1-phase,3-speed
Fan Type	Packing Size (L*W)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
Axial	935*560*1310	45	80	100
Applicable Area				
80-100m²				



Specification

Model	Airflow(m³/h)	Power(W)	Electrical Source(V/Hz)	Fan Speed
AZL-130	13000	450	110/220 50/60	1-phase,3-speed
Fan Type	Packing Size (L*W)(mm)	Net Weight (±3kg)	Water Capacity (L)	Pump(W)
Axial	1030*580*1500 with wheel stand 200mm	64	120	45
Blade diameter(CM)	Outlet diameter(CM)	Wheel size	Applicable Area	Qty/Full(40HQ)
58	61	5"	90m²	80



Specification

Model	Airflow(m³/h)	Power(W)	Electrical Source(V/Hz)	Fan Speed
AZL-180	18000	550	110/220 50/60	1-phase,3-speed
Fan Type	Packing Size (L*W)(mm)	Net Weight (±3kg)	Water Capacity (L)	Pump(W)
Axial	1130*680*1510	55	100	25
Blade diameter(CM)	Outlet diameter(CM)	Wheel size	Applicable Area	Qty/Full(40HQ)
750	76*76	4"	100-150m²	57



Specification

Model	Airflow(m³/h)	Power(W)	Electrical Source(V/Hz)	Fan Speed
AZL-400	40000	1100	110/220 50/60	1-phase,3-speed
Fan Type	Packing Size (L*W)(mm)	Net Weight (±3kg)	Water Capacity (L)	Pump(W)
Axial	1960*980*2350 with wheel stand 250mm	180	300	75
Blade diameter(CM)	Outlet diameter(CM)	Wheel size	Applicable Area	Qty/Full(40HQ)
110	115	6"	380m²	11



Specification

Model	Airflow(m³/h)	Power(W)	Electrical Source(V/Hz)	Fan Speed
AZL-230	23000	1100	110/220 50/60	1-phase,3-speed
Fan Type	Packing Size (L*W)(mm)	Net Weight (±3kg)	Water Capacity (L)	Qty/Full(40HQ)
Axial	1600*780*1800	135	200	30
Applicable Area				
200-260m²				



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)
AZL06-ZC13A	6000	60	0.15	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
1.25	Axial	489*400	1-phase 3-speed	≤68
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Operation Weight(kg)	Qty/Full(40HQ)
795*978*937	660*665*100	29	69	129
Controller	Pre-dust Filter	Pre-cooling		
LCD+Remote	√	Optional		



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(v/Hz)
AZL06-ZC13B	6000	60	0.15	110/220 50/60
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
1.25	Axial	489*400	1-phase 3-speed	≤68
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Operation Weight(kg)	Qty/Full(40HQ)
795*978*937	660*665*100 495*132*50	31	71	128
Controller	Pre-dust Filter	Pre-cooling		
LCD+Remote	√	Optional		



Specification

Model		Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)	
AZL06-ZC 10BD	AZL06-ZC 10DA	6000	60	0.15	DC only	DC and AC
Rated Current(A)		Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)	
7		Axial	489*400	Continuously Variable	≤68	
Dimension (L*W*H)(mm)		Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Operation Weight(kg)	Qty/Full(40HQ)	
795*978*937		660*665*100 495*132*50	29	69	128	
Controller		Pre-dust Filter	Pre-cooling			
LCD+Remote		√	Optional			



Specification

Model	Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)
AZL03-ZC10AZ	3000	67	0.08	DC
Rated Current(A)	Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)
5.5	Axial	433*304	Continuously Variable	≤59.1
Dimension (L*W*H)(mm)	Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Operation Weight(kg)	Qty/Full(40HQ)
600*810*625	240*240*80	38	63	170
Controller	Pre-dust Filter	Pre-cooling		
LCD+Remote	√	Optional		



Specification

Model		Airflow(m³/h)	Pressure(Pa)	Power(Kw)	Electrical Source(V/Hz)	
AZL06-ZY 10GD	AZL06-ZY 10GDA	6000	60	0.15	DC only	DC and AC
Rated Current(A)		Fan Type	Vent Size (L*W)(mm)	Fan Speed	Noise(dBA)	
7		Axial	540*540	Continuously Variable	≤68	
Dimension (L*W*H)(mm)		Pad Size (L*W*H)(mm)	Net Weight (±3kg)	Operation Weight(kg)	Qty/Full(40HQ)	
795*500*1320		660*665*100 495*132*50	29	99	132	
Controller		Pre-dust Filter	Pre-cooling			
LCD+Remote		√	Optional			

WIND SUPREMO



(Up Discharge) (Down Discharge) (Side Discharge) (Deep water tank)

Specification

Model/Specs	AZL18-ZX10E	AZL18-ZX10G	AZL18-ZX32E	AZL18-ZX10E (Deep water tank)
	AZL18-ZS10E	AZL18-ZS10G	AZL18-ZS32E	AZL18-ZS10E (Deep water tank)
	AZL18-ZC10E	AZL18-ZC10G	AZL18-ZC32E	AZL18-ZC10E (Deep water tank)
	X-down discharge,S-up discharge,C-side discharge			
Electrical Source	110/220 50/60 (V/Hz) 1-phase	110/220 50/60 (V/Hz) 1-phase	380-415/50-60(V/Hz) 3-phase	110/220 50-60(V/Hz) 1-phase
Power(Kw)	1.1	1.1	1.1/0.37	1.1
Rated Current(A)	5.6	4.8	2.0/0.85	5.6
Airflow(m³/h)	18000	18000	18000/11000	18000
Fan Type	Axial	Axial	Axial	Axial
Fan Speed	Multi-speed, Silicon Control	Multi-speed,Inverter	3-Phase,2-speed	Multi-speed, Silicon Control
Pressure(Pa)	190	190	190/63	190
Vent Size (L*W)(mm)	650*650(down/up) 720*660(side)	650*650(down/up) 720*660(side)	650*650(down/up) 720*660(side)	650*650(down/up) 720*660(side)
Noise(dBA)	≤76	≤76	≤76	≤76
Dimension (L*W*H)(mm)	1150*1150*950(down) 1150*1150*982(up) 1205*1150*950(side)	1150*1150*950(down) 1150*1150*982(up) 1205*1150*950(side)	1150*1150*950(down) 1150*1150*982(up) 1205*1150*950(side)	1150*1150*1076(down) 1150*1150*1103(up) 1205*1150*1076(side)
Pad Size (L*W*H)(mm)	620*825*100	620*825*100	620*825*100	620*825*100
Net Weight (±3kg)	80(down)86(up/side)	80(down)86(up/side)	80(down)86(up/side)	80(down)86(up/side)
Operation Weight (kg)	110(down)116(up/side)	110(down)116(up/side)	110(down)116(up/side)	180(down)186(up/side)
Controller	LCD Control	LCD Control	Button+Knob Switch	LCD Control
Pre-dust Filter	Optional	Optional	Optional	Optional
Pre-cooling	Optional	Optional	Optional	Optional
Group-control	Optional	Optional	Optional	Optional

Exhaust	Optional	Optional	/	Optional
Damper	Optional	Optional	Optional	Optional
Tem&hum Control	Optional	Optional	Optional	Optional
QTY/FULL(40HQ)	40(down/up/side)	40(down/up/side)	40(down/up/side)	
QTY/SKD(40HQ)	70(down)/60(up)/60(side)	70(down)/60(up)/60(side)	70(down)/60(up)/60(side)	



Application

Industrial plants ,semi-open place, exhibition hall, agriculture and animal husbandry base, greenhouse, supper market, etc.



DC BRUSHLESS MOTOR



(Up Discharge)

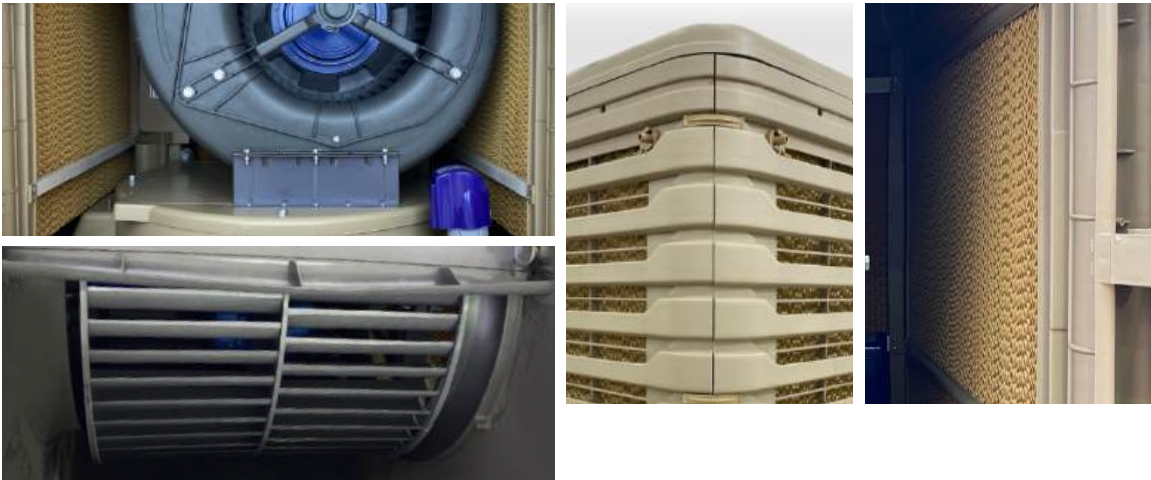
(Down Discharge)

(Side Discharge)

Specification

Model/Specs	AZL18-ZX10EZ	AZL18-LX10CZ
	AZL18-ZS10EZ	AZL18-LS10CZ
	AZL18-ZC10EZ	AZL18-LC10CZ
	X-down discharge,S-up discharge,C-side discharge	
Electrical Source	220~240/50~60	220~240/50~60
Power(Kw)	0.65	1.5
Motor	DC (220V 3-Phase)	DC (220V 3-Phase)
Rated Current(A)	3	7.5
Airflow(m³ /h)	18000	18000
Fan Type	Axial	Centrifugal
Fan Speed	Multi-speed,Inverter	Multi-speed,Inverter
Pressure(Pa)	170	183
Vent Size (L*W)(mm)	650*650(down/up) 720*660(side)	650*650(down/UP) 600*600(side)
Noise(dBA)	≤67	≤65
Dimension (L*W*H)(mm)	1150*1150*950(down) 1150*1150*982(up) 1210*1150*950(side)	1150*1150*950(down) 1150*1150*982(up) 1210*1150*950 (side)
Pad Size (L*W*H)(mm)	620*825*100	620*825*75 620*825*100
Net Weight (±3kg)	67(down)73(up) 87(side)	79
Operation Weight (kg)	97(down)103(up) 117(side)	107
Controller	LCD Control	LCD Control
Pre-dust Filter	Optional	Optional
Pre-cooling	Optional	Optional

Group-control	Optional	Optional
Exhaust	Optional	Optional
Damper	Optional	Optional
Tem&hum Contro	Optional	Optional
QTY/FULL(40HQ)	40	40
QTY/SKD(40HQ)	70(down)/60(up)/60(side)	45



Application

Industrial plants ,factory ,semi-open place ,exhibition hall,textile ,agriculture and animal husbandry base,warehouse ,greenhouse ,supper market,etc.



WIND MARSHAL



(Up Discharge)

(Down Discharge)

(Side Discharge)

Specification

Model/Specs	AZL18-ZX10J	AZL18-ZX10JG	AZL18-ZX31J	AZL10-ZX10J
	AZL18-ZS10J	AZL18-ZS10JG	AZL18-ZS31J	AZL10-ZS10J
	AZL18-ZC10J	AZL18-ZC10JG	AZL18-ZC31J	
	X-down discharge,S-up discharge,C-side discharge			
Electrical Source	110/220 50/60 (V/Hz) 1-phase	110/220 50/60 (V/Hz) 1-phase	380-415/50-60 (V/Hz) 3-phase	110/220 50/60 (V/Hz) 1-phase
Power(Kw)	0.75	0.75	0.75	0.52
Rated Current(A)	5.6	4.0	2.3	2.8
Airflow(m³ /h)	18000	18000	18000	10000
Fan Type	Axial	Axial	Axial	Axial
Fan Speed	Multi-speed, Silicon Control	Multi-speed, Inverter	3-phase,1-speed	Multi-speed, Silicon Control
Pressure(Pa)	160	160	160	80
Vent Size (L*W)(mm)	555*555(down/up) 614*614(side)	555*555(down/up) 614*614(side)	555*555(down/up) 614*614(side)	555*555
Noise(dBA)	≤65	≤65	≤65	≤65
Dimension (L*W*H)(mm)	1030*1030*883(down) 1030*1030*968(up) 1030*1345*883(side)	1030*1030*883(down) 1030*1030*968(up) 1030*1345*883(side)	1030*1030*883(down) 1030*1030*968(up) 1030*1345*883(side)	1030*1030*643(down) 1030*1030*728(up)
Pad Size (L*W*H)(mm)	638*738*100	638*738*100	638*738*100	395*498*100
Net Weight (±3kg)	49(down)53(up) 55(side)	49(down)53(up) 55(side)	49(down)53(up) 55(side)	52(down)53(up)
Operation Weight (kg)	67(down)71(up) 86(side)	67(down)71(up) 73(side)	67(down)71(up) 73(side)	70(down)71(up)
Controller	LED Control	LED Control	LED Control	LED Control
Pre-dust Filter	Optional	Optional	Optional	Optional
Pre-cooling	Optional	Optional	Optional	Optional
Group-control	Optional	Optional	Optional	Optional

Tem&hum Control	Optional	Optional	Optional	Optional
QTY/FULL(40HQ)	44(down/up/side)	44(down/up/side)	44(down/up/side)	66(down/up/side)
QTY/SKD(40HQ)	87(down)/75(up)/85(side)	87(down)/75(up)/85(side)	85(down)/75(up)/85(side)	95(down)/88(up)



Application

Small and medium-sized factories, offices, semi-open restaurants, outdoor exhibition venues, etc.

Airflow : 18000m³/h Cooling Area : 100-120m³

FOUR SIDES AIR SUPPLY
ACCELERATING CIRCULATION

Wide-angle range of wind, rapid coverage and immediate cooling.

WIND DOMINATION



(Up Discharge) (Down Discharge) (Side Discharge)

Specification

Model/Specs	AZL25-ZX32C	AZL25-ZX30C	AZL30-ZX32C	AZL30-ZX30C
	AZL25-ZS32C	AZL25-ZS30C	AZL30-ZS32C	AZL30-ZS30C
	AZL25-ZC32C	AZL25-ZC30C	AZL30-ZC32C	AZL30-ZC30C
	X-down discharge,S-up discharge,C-side discharge			
Electrical Source	380-415/50-60(V/Hz) 3-phase	380-415/50-60(V/Hz) 3-phase	380-415/50-60(V/Hz) 3-phase	380-415/50-60(V/Hz) 3-phase
Power(Kw)	2.2/0.75	2.2	3.0/1.0	3.0
Rated Current(A)	5.4/2.7	5.4	7.1/3.5	7.1
Airflow(m³/h)	25000/16000	25000	30000/20000	30000
Fan Type	Axial	Axial	Axial	Axial
Fan Speed	3-phase,2-speed	Multi-speed,Inverter	3-phase,2-speed	Multi-speed,Inverter
Pressure(Pa)	306/128	306	366/160	366
Vent Size (L*W)(mm)	765*765	765*765	765*765	765*765
Noise(dBA)	≤78	≤78	≤80	≤80
Dimension (L*W*H)(mm)	1350*1350*1310(down/side) 1350*1350*1426(up)	1350*1350*1310(down/side) 1350*1350*1426(up)	1350*1350*1310(down/side) 1350*1350*1426(up)	1350*1350*1310(down/side) 1350*1350*1426(up)
Pad Size (L*W*H)(mm)	970*886*100	970*886*100	970*886*100	970*886*100
Net Weight (±3kg)	120(down)147(up) 156(side)	120(down)147(up) 156(side)	125(down)152(up) 161(side)	125(down)152(up) 161(side)
Operation Weight (kg)	175(down)202(up) 211(side)	175(down)202(up) 211(side)	180(down)207(up) 216(side)	180(down)207(up) 216(side)
Controller	LED Control	LCD Control	LED Control	LCD Control
Pre-dust Filter	Optional	Optional	Optional	Optional
Pre-cooling	Optional	Optional	Optional	Optional
Group-control	Optional	Optional	Optional	Optional

Tem&hum Control	Optional	Optional	Optional	Optional
QTY/FULL(40HQ)	9(down/up/side)	9(down/up/side)	9(down/up/side)	9(down/up/side)
QTY/SKD(40HQ)	45(down)/39(up)/42(side)	45(down)/39(up)/42(side)	45(down)/39(up)/42(side)	45(down)/39(up)/42(side)



Application

Public buildings, commercial buildings, industrial workshops, logistics warehousing ,etc.

Airflow : 30000m³/h Cooling Area : 250-300m³

FOUR SIDES AIR SUPPLY
ACCELERATING CIRCULATION

Wide-angle range of wind, rapid coverage and immediate cooling.

WIND SUPERIOR



Specification

Model/Specs	AZL25-LX31F	AZL30-LX31F	AZL35-LX31F	AZL40-LX31F	AZL50-LX31F
	AZL25-LS31F	AZL30-LS31F	AZL35-LS31F	AZL40-LS31F	AZL50-LS31F
	AZL25-LC31F	AZL30-LC31F	AZL35-LC31F	AZL40-LC31F	AZL50-LC31F
	X-down discharge,S-up discharge,C-side discharge				
Electrical Source	380-415/50-60 (V/Hz) 3-phase	380-415/50-60 (V/Hz) 3-phase	380-415/50-60 (V/Hz) 3-phase	380-415/50-60 (V/Hz) 3-phase	380-415/50-60 (V/Hz) 3-phase
Power(Kw)	3	4	5.5	7.5	15
Rated Current(A)	6.8	8.8	11.6	15.9	30.5
Airflow(m³/h)	25000	30000	35000	40000	50000
Fan Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Fan Speed	3-phase,1-speed	3-phase,1-speed	3-phase,1-speed	3-phase,1-speed	3-phase,1-speed
Pressure(Pa)	240	280	300	320	500
Vent Size (L*W)(mm)	707*645(down) 772*707(up/side)	707*645(down) 772*707(up/side)	803*718(down) 843*747(up/side)	803*718(down) 843*747(up/side)	803*718(down) 843*747(up/side)
Noise(dBA)	≤74	≤76	≤81	≤83	≤85
Dimension (L*W*H)(mm)	1385*1515*1400(down) 1385*1515*1460(up) 1450*1515*1400(side)	1385*1515*1400(down) 1385*1515*1460(up) 1450*1515*1400(side)	1600*1750*1550(down) 1600*1750*1580(up) 1635*1750*1550(side)	1600*1750*1550(down) 1600*1750*1585(up) 1635*1750*1550(side)	1600*1830*1750(down) 1600*1830*1740(up) 1635*1830*1705(side)
Pad Size (L*W*H)(mm)	1100*520*100 (down/up/side) 1100*465*120 (down/up/side)	1100*520*100 (down/up/side) 1100*465*120 (down/up/side)	1237*634*100 (down/up/side) 1237*573*120 (down/up/side)	1237*634*100 (down/up/side) 1237*573*120 (down/up/side)	1363*670*100 (down/up/side) 1363*568*120 (down/up/side)
Operation Weight (kg)	358	363	540	555	725
Controller	Button+Knob Switch	Button+Knob Switch	Button+Knob Switch	Button+Knob Switch	Button+Knob Switch
Net Weight (±3kg)	315	320	490	505	675
Aluminum Ally shell	Optional	Optional	Optional	Optional	Optional
QTY/Full(40HQ)	8	8	7	7	7

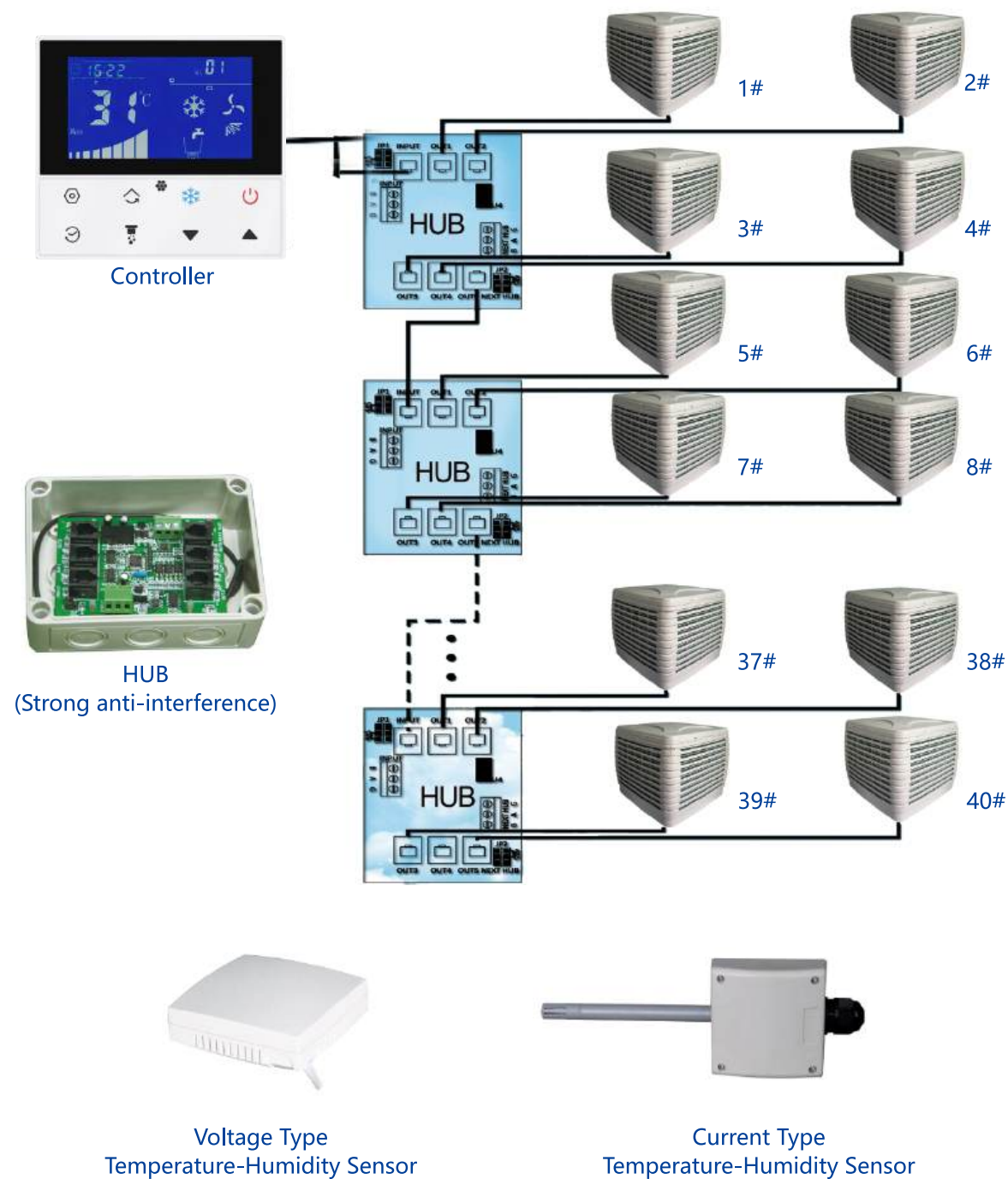
WIND EMPEROR



Specification

Model/Specs	AZL60-LX32D	AZL80-LC32B
	AZL60-LS32D	
	AZL60-LC32D	
	X-down discharge,S-up discharge,C-side discharge	
Electrical Source	380-415/50-60 (V/Hz) 3-phase	380-415/50-60 (V/Hz) 3-phase
Power(Kw)	18.5/6	30/15
Rated Current(A)	37/15.7	61.7/33.6
Airflow(m³/h)	60000/36000	80000/58000
Fan Type	Centrifugal	Centrifugal
Fan Speed	3-phase,2-speed	3-phase,2-speed
Pressure(Pa)	520/242	700/480
Vent Size (L*W)(mm)	810*956	1355*1042
Noise(dBA)	≤85	≤91
Dimension (L*W*H)(mm)	2088/2070*1863(down) 2088*2070*2011 (up) 2172*2070*1863(side)	3103*2202*2400
Pad Size (L*W*H)(mm)	1555*860*120	3103*2202*2400
Operation Weight (kg)	1000	1762
Controller	Button+Knob Switch	Button+Knob Switch
Net Weight (±3kg)	900	1600
Aluminum Ally shell	Optional	Optional
QTY/Full(40HQ)	5	3

GROUP CONTROL (MATCH WITH HUB)



EAC ACCESSORIES



EXTRACTION FAN-EVAPORATIVE COOLING PAD SYSTEM

Characteristic:

- Ventilating first before cooling with air convection to remove stuffiness, odor, smoke, dust, waste gas, etc
- Bring in fresh air with air exchange done in 30s.Ventilating efficiency reaches to 85%-99%
- Only 1/3 of air conditioning investment;with 1/10 electricity consumption of air conditioning
- Bring fresh,cool air,increase oxygen content in workshop

Application:



EXTRACTION FAN

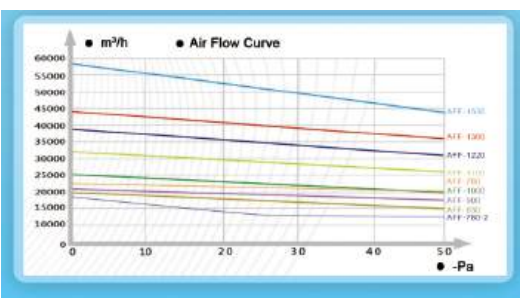
Product



Shutter Closing

Shutter Open

Airflow Drawing



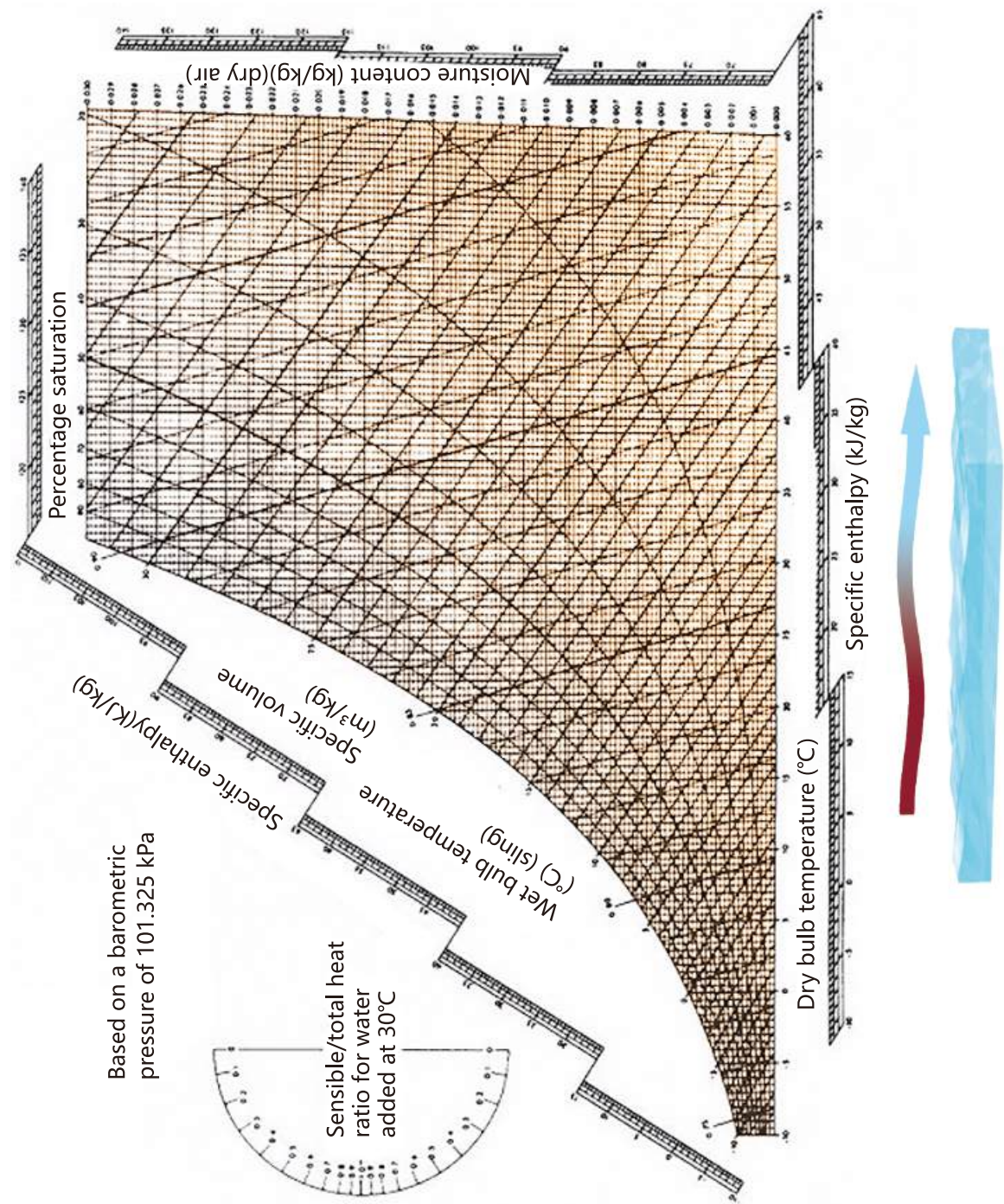
Characteristics

- Fan impeller made of SS with high airflow capacity
- Motor power could be customized
- Shutter bearings is designed to be maintenance free, low noise
- Fan with auto belt tensioner (optional part) to keep belt smoothly
- Optional swing heavy punch and centrifugal setting for fan swing

Specification

Model Specifications	Drive Method	Blade Diameter (mm)	Blades Rotating Speed(rpm)	Motor Rotational Speed(rpm)	Airflow (m³/h)	Total Pressure(Pa)	Noise(dBA)	Input Power(W)	Rated Voltage(V)	Height (mm)	Width (mm)	Thickness (mm)
AFF-300	Direct	200	1400	1400	3150	55	≤70	80	380	400	400	320
AFF-400	Direct	300	1400	1400	3850	55	≤70	120	380	400	400	320
AFF-500	Direct	400	1400	1400	4500	55	≤55	180	380	500	500	320
AFF-600	Direct	500	1400	1400	5100	55	≤70	250	380	600	600	380
AFF-700	Direct	600	1400	1400	10600	75	≤70	370	380	700	700	380
AFF-800	Belt	710	455	1400	16500	60	≤60	370	380	800	800	380
AFF-900	Belt	750	455	1400	21500	65	≤65	370	380	900	900	380
AFF-1000	Belt	900	445	1400	24500	70	≤70	550	380	1000	1000	380
AFF-1100	Belt	1000	445	1400	31500	70	≤70	750	380	1100	1100	380
AFF-1220	Belt	1100	435	1400	35500	73	≤70	750	380	1220	1220	380
AFF-1380	Belt	1250	435	1400	40500	56	≤70	1100	380	1380	1380	380
AFF-1530	Belt	1400	435	1400	45800	60	≤70	1500	380	1530	1530	380

ENTHALPY-HUMIDITY CHART



HOW TO CALCULATE

By Cooling Capacity (seldom used in practice)

For example:
Aolan Wind Charisma series: airflow: 18000m³/h (0Pa), calculative airflow : 13320m³/h ,
relative humidity 30%, environmental temperature: 35°C, the calculation data as follows:
Calculative airflow:
13320m³/h = 3.7m³/s, dry-bulb temperature $t_d = 35^\circ\text{C}$
relative humidity $\phi = 30\%$, wet bulb temperature $t_w = 21.5^\circ\text{C}$

$$S = L \times \rho \times C_p \times \eta \times \Delta t$$
$$= 3.7 \times 1.2 \times 1.04 \times 0.8 \times (35 - 21.5)$$
$$= 49.87(\text{kW})$$

S: Refrigerating capacity(kW)
L: Airflow(m³/s)
 ρ : Air density of air outlet(kg/m³)
 C_p : Air specific heat(kJ/kg)
 η : Evaporation efficiency
 Δt : Depression of the wet bulb(K)

By Experience (often used in practice)

According to air change rate of the cooling area. See air change rate reference value as below:

1. Normal environment required air change rate: 25-30 times/h;
2. Stream of intensive public area required air change rate: 30-40 times/h;
3. With additional heat loads from machinery production area required air change rate above: 40-50 times/h;
4. In high humidity area the air change rate will properly increase, conversely the air change rate will decrease.

For example: In a 1000m² and additional heat loads from machinery, the height of this area is 3m, and use our 18000m³/h air cooler, the unit(N) of air coolers needed will be calculated as follows:

$$N = \text{area} \times \text{air change rate} \div \text{airflow}$$
$$= 1000\text{m} \times 3\text{m} \times 50\text{times/h} \div 18000\text{m}^3/\text{h}$$
$$= 8\text{units.}$$

PROJECT CASES



Large Public Places



Large Commercial Premises



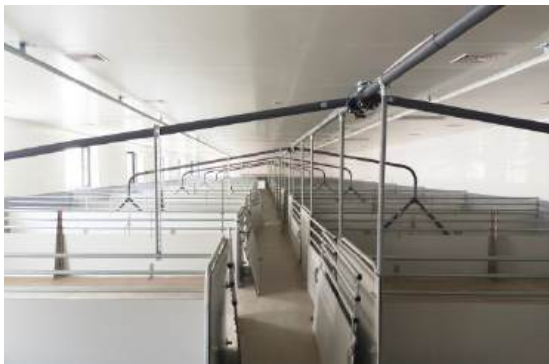
Express Logistics Centers



Large Factory



Industrial Machinery Manufacturing



Animal Husbandry Plant



Side Discharge Model Installation Case



Roof-top Installation Case



Top Discharge Model Installation Case



Bottom Discharge Model Installation Case



OUR CUSTOMERS



TEST REPORT

