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## Guangdong Jiake Ventilator Co.,Ltd

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Stock code:833202

Stock name: Jiake group



Guangdong Jiake Ventilator Co., Ltd

# INDUSTRIES

Jiake, established in 1984, formerly a subsidiary of the state-owned Shatou Refrigerator Equipment Manufacturing, is one of the country's earliest ventilation equipment manufacturing companies. Our company is committed in the development, manufacturing, sales and after-sales services of various ventilation systems such as railway ventilation systems, bus ventilation systems, heavy-duty industrial ventilation systems, indoor ventilation systems, central ventilation systems and air fresheners. Our company has also been awarded with numerous certifications from various professional certification bodies, such as the TÜV SÜD's IRIS certification, the EN 15085 Certification for Welding of Railway Vehicles and Components, ISO 9001:2000 and ISO 14001 certifications, CE, NF and China 3C certifications and various other state certifications. On top of that, our company has filed more than 20 technological patents.

Our railway ventilation systems are mainly used in railcars of high-speed trains, bullet trains, subway trains and light rail trains deployed in more than 100 cities, both domestically such as Guangzhou, Beijing, Shanghai, Shenzhen, Tianjin, Chengdu, Changsha, Chongqing, Wuhan etc., and internationally such as Milan, Wellington, Santiago, Amsterdam, Athens, Lima, Bangkok, New Delhi, Sao Paulo, and cities in Japan, Iran, Malaysia and Pakistan.

We also maintain close and long-term cooperation with large-scale industries both domestically and internationally. Our ventilation fans have also been installed in air conditioning systems on electric buses. We are one of the pioneers in the research, development and manufacturing of ventilation fans for use in electric buses, and we have been maintaining close cooperation with several established manufacturers. Our ventilation fans have been utilized in buses that served the 2008 Beijing Olympic Games, 2010 Asian Games, 2011 Shenzhen Games and the 2014 Nanjing Youth Olympics.

Our industrial fans and fire-fighting ventilators are used for the purposes of smoke and dust abatement in various industrial and commercial applications. Our central air refreshener system is able to work non-stop, 24 hours a day, 365 days a year, in removing pollutants from and at the same time providing fresh air for indoor residential environments in an energy-efficient manner. With 30 years of experience behind us, we have successfully nurtured a team of well-trained, highly-skilled researchers and management executives who are capable of excelling in various tasks.



## Team Introduction

In 2003, the company set up a technology research and development department, research and development process to follow the ISO9001: 2008 quality management system, the implementation of the whole process monitoring and management. Thirty-five years of professional manufacturing our company has trained a batch of fan design, development, manufacturing and so on in various aspects of high-quality technical research and development team and the enterprise management personnel. The company is equipped with CAD auxiliary design system, the research and development cycle is short. The company has the ability to develop and manufacture new products in a short time.





## Equipment Introduction

The company has a plant covers about the area of 30,000 square meters, in recent years, imported advanced equipment facility, such as:

- Laser cutting equipment and plate work processing equipment;
- CNC punching machines;
- Shears;
- Bending machines;
- Wire cutting machines;
- Mold machining center;
- Welding center;
- Standard digital ventilator air flow laboratory;
- Noise laboratory;
- Surface treatment and coating center;



## Production process



### 1 Mechanical design

#### 1、 Mechanical design

Base on the 3D-CAD technology, the product is set up according to 3D model with the simulation test, The product structure and performance parameters are analyzed.



### 2 Sheet metal processing

#### 2、 Sheet metal processing

Through computer programming, we reach the highest utilization rate of raw materials, then numerical control processing of raw materials.

### 3 Mould forming



#### 3、 Mould forming

Molding of products by means of die.

### 4 Machining



#### 4、 Machining

NC machining of product parts through the program.



### 5 wind wheel assembly

#### 5、 Wind wheel assembly

With all kinds of special fixture, the product of the wind wheel and the wind turbine assembly.



### 6 Welding workshop

#### 6、 Welding workshop

With special fixture, the welding quality is ensured by using the automatic robot for welding, in strict accordance with the EN15085 standard.

### 7 Spraying workshop



#### 7、 Spraying workshop

With the electrostatic powder spraying technology, high pressure spray gun powder adhesion in pre-treatment of the surface of the product, then baked with high temperature.

### 8 Welding workshop



#### 6、 Welding workshop

According to product design drawings, the product is installed.



### 9 Testing

#### 9、 Testing

After pass the dimension inspection, vibration test, noise test, electric energy testing, etc., the product will be packaged.

# Events

- Jan 1984 Nanhai Sha Tau ventilation electrical plant was established, it participated in the first batch of domestic train development and production of air-conditioning fan
- Jan 1993 Involved in domestic subway train China's first air-conditioning ventilation equipment design and development and manufacturing
- Apr 1995 Rename to Shatou Refrigeration corporation
- Jan 1966 Company restructuring reform, officially became a private enterprise
- Dec 2001 The company passed the audit certification and obtained ISO9001: 2000 quality management system certification
- Jan 2003 Established its own brand "Jiake Fan" and registered Foshan Nanhai Jiake Fan Manufacture Co., Ltd.
- Aug 2006 High-speed railway car project fan research and development
- Dec 2008 Establish national wind tunnel testing laboratory
- Dec 2009 Approved by the People's Government of Nanhai District of Foshan City as a key supportive enterprise for the "Eagle Project"
- Nov 2010 Participate in the first domestic EMU hole (200 kilometers per hour) of ventilation equipment design and development and manufacturing
- Jan 2010 Accredited by Guangdong Science and Technology Agency as "private technology enterprise in Guangdong Province"
- July 2010 Won the National SME Innovation Fund
- Nov 2011 Was assessed Guangdong Science and Technology Department of Guangdong Provincial Department of Finance, the State Taxation Bureau of Guangdong Province, Guangdong Provincial Local Taxation Bureau for the new technology enterprises
- Nov 2011 Won the Guangdong High-tech Product Certification
- Jan 2011 The company passed the audit certification and obtained ISO9001: 2008 quality management system certification
- Jun 2012 International Railway Industry Standard) " The company passed the global TUV certification authority and obtained IRS, International Railway Industry Standard
- July 2012 The company has been audited and certified by Germany's TUV, a global authoritative organization, and obtained the "EN5085" track application - welding certification system for rail vehicles and vehicle components.
- Aug 2014 The company completed the share manufacturing and officially changed its name to "Guangdong Jiake Ventilator Co., Ltd"
- Aug 2014 Participated in the design, development, manufacture and manufacture of ventilation equipment for domestic first high-speed rail air conditioners (380 km/h)
- Aug 2015 The company successfully registered and listed on the national small and medium-sized enterprise share transfer system. The stock code is: 833202, and the stock name is "Jiake shares".

- Jun 1984 National railway train (B,G,T type)
- May 1984 Syria bus
- May 1984 Sultan train
- May 1985 North Korean train
- May 1985 Kazakhstan train
- May 1985 Osaka light rail
- Aug 1995 Guangzhou Metro line 1
- Oct 2000 Guangzhou Metro line 2
- Nov 2000 Chengdu Metro line 1
- July 2001 Changchun light rail
- Jun 2002 Beijing Batong Line
- Mar 2004 Guangzhou Metro line 4
- July 2004 Chongqing Monorail
- Aug 2005 Qinghai Tabei line
- Mar 2006 Venezuela train
- Sep 2006 Shanghai Metro line 9
- May 2006 Beijing airport line
- Oct 2006 Beijing Metro line 10
- Nov 2007 Shanghai Metro line 7
- Nov 2007 Beijing Metro line 4
- Dec 2007 Georgia train
- Jun 2007 Shanghai Metro line 11
- Jun 2007 India New Delhi Metro
- Jun 2008 Athens Metro
- Nov 2008 Zhuzhou six axle vehicle
- Dec 2008 Bangkok Metro
- Feb 2008 Shanghai Metro line 6,8
- Feb 2008 Istanbul Metro
- Apr 2008 Tunisia subway
- Sep 2009 National leaders train
- Sep 2009 Qinghai-Tibet Plateau Railway Series
- Sep 2009 Wellington Metro
- Oct 2009 Shenzhen Metro Line 2



# Events

July 2010	Shenzhen Metro Line 1	Mar 2014	CRH807 205km
Sep 2010	Amsterdam train	Apr 2014	Suzhou Metro Line 2
Jan 2010	Malaysia train	May 2014	Shanghai Metro Line 3
Apr 2010	Guangzhou Metro line 8	May 2014	Shanghai Metro Line 4
Apr 2010	Wuhan Metro line 2	May 2014	Changsha Metro Line 1
May 2010	Pakistan III (KLD33PA) train	May 2014	CRH-160KM
May 2010	Pakistan II (KLD7) train	May 2014	Hangzhou Metro Line 4
Jun 2011	Italy Metro line	May 2014	Tangshan bus city rail CRH3F
July 2011	CRH5B	May 2014	EMU
July 2011	St Paul Brazil Metro	May 2014	Alpine wind and sand
Aug 2011	Extension of line 6,8 in Shanghai Metro	May 2014	Santiago Metro
Aug 2011	Shanghai Metro Line 16	Jun 2014	Wuhan Metro Line 3
Aug 2011	Chengdu Metro Line 3	Jun 2014	Series G88B1000 of Metro Axial fans
Aug 2011	CRH6-200KM	Jun 2014	Standard EMU 380KM
Dec 2011	Macao light rail line	July 2014	Lima project
Mar 2012	Iran Metro	Aug 2014	Chongqing Metro Line 3
Apr 2012	Guangzhou Metro Line3	Aug 2014	Drivers' Room Hefei Metro Line 1
May 2012	Wuxi Metro Line 1	Aug 2014	Hefei Metro Line 1
July 2012	Changsha Maglev	Oct 2014	Guangzhou Metro Line 7
Dec 2012	Qingdao Metro Line 3	Oct 2014	Chengdu Metro Line 4
Mar 2013	Changsha Metro Line 2	Oct 2014	Shenzhen Metro Line 5
Mar 2013	807item-250km	Nov 2014	Drivers' Room Argentina Metro
Apr 2013	Milan Metro	Dec 2014	Shanghai Metro Line 1
Oct 2013	Tianjin Metro Line	Dec 2014	CRH5
		Dec 2014	CRH5-Drivers' Room
		Mar 2015	Chengdu Metro Line 2
		Mar 2015	CRH6-200km
		Mar 2015	Iran Metro Drivers' Room
		Mar 2015	Beijing Changping Line
		Jun 2015	Guangzhou Metro Line 9
		Sep 2015	Vietnam train
		Oct 2015	Sifang 140km city car
		Oct 2015	Dalian 160km city car
		Oct 2015	Shenzhen Metro Line 5
		Nov 2015	Shenzhen Metro Line 9



# Projects



Macao Light Rail



Beijing Metro



Changchun Light Rail



Changsha Metro



Jinggang Metro



Chengdu Metro



Chengdu Railway Bureau



Guangzhou Metro



Hangzhou Metro



Hefei Metro



China Railway High-speed



Changsha Rail transport



Qingdao Metro



Shanghai Metro



Shenzhen Metro



Suzhou Metro



Tangshangke Railways



Tianjin Metro



Wuxi Metro



Wuhan Metro



CNR



CSR



China Railways



China Car



China Railway Engineering



Chongqing Metro



Beijing Olympic



Asian Games



Nanjing Youth Olympic Games



Shenzhen World University Games



CHINA RAILWAYS HIGH-SPEED



BEIJING METRO



CHUANGCHUN LIGHT RAIL



GUANGZHOU METRO



SHENZHEN METRO



SHANGHAI METRO





CHINA RAILWAY



HANGZHOU METRO



ST PAUL BRAZIL METRO



BANGKOK METRO



WUHAN METRO



SUZHOU METRO



MILAN METRO



ISTANBUL METRO



WUXI METRO



CHENGDU METRO



AMSTERDAM



INDIA NEW DELHI METRO



## CHINA RAILWAYS HIGH-SPEED



On April 18, 2007, the China railway sixth speed-up was started. New EMU has the characteristics of advanced technology, reliable safety, comfort and environmental protection, etc.

## SHANGHAI METRO



Shanghai metro, the first line of Shanghai rail transit system opened on April 10, 1995, is the third city rail transit system in mainland of China after Beijing and Tianjin.

## BEIJING METRO



Beijing Metro is a service of Beijing urban rail transit system in China. Its planning began in 1953, engineering was established in 1965, the first line was completed in 1969. It began operation in 1971 and it is the first subway system in China.

## CHINA RAILWAY



In China, the railway is the national important infrastructure, and also the popular means of transportation. Railway in comprehensive transportation system in China is in a key position.

## GUANGZHOU METRO



Guangzhou Metro, opened in June 28, 1997, is China's fourth cities open and operate Metro.

## CHANGCHUN METRO



December 28, 2001, Changchun light rail phase one project success. So far, Changchun has taken the lead in the first light rail line in mainland china.

## SHENZHEN METRO



Shenzhen Metro, located in Shenzhen, is the fifth city rail transit system in mainland of China after Beijing, Tianjin, Shanghai and Guangzhou.

高寒动车  
ALPINE BULLET TRAIN

Alpine EMU car has the advantage of anti snow, compressive strength, cold resistance, at an altitude of 3600 meters, minus 40°C temperature environment, or 70°C temperature environment, it has ability of continuous operation and can reach speeds of 200 km of high-speed EMU.



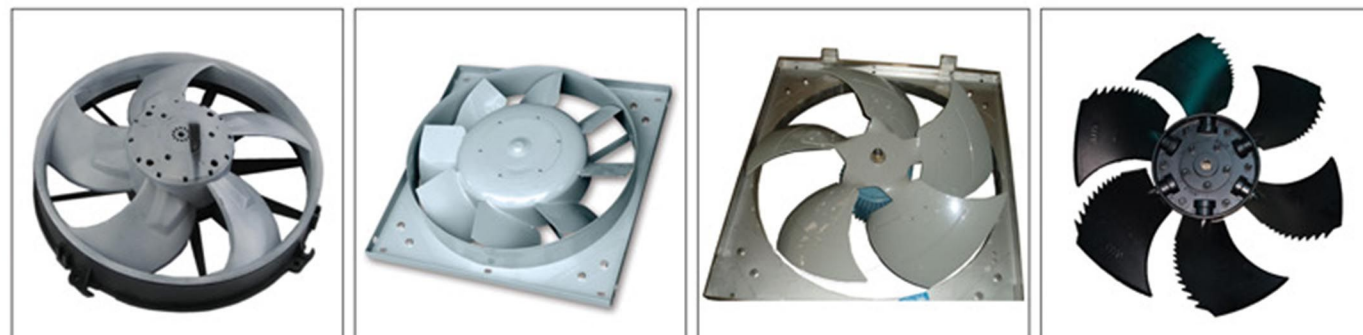
# Products

## KT series axial fan



The impeller is made of high quality cold-rolled steel plate, aluminum alloy plate, 304 stainless steel plate, aluminum alloy die casting process. Blade according to the principle of aerodynamics design, with the wind, high pressure, high efficiency, low noise, stable operation, small size, light weight, long life and so on. The installation of the fan is made of the structure of the body and the spinning technology, which has the advantages of high strength, beautiful appearance, convenient installation, etc. Fan surface through advanced technology and surface treatment (spray treatment, pickling passivation spinning fingerprint, electrophoresis) and enhances the anti rust and corrosion protection. Fan driven by three-phase asynchronous motor, motor insulation class F, protection class IP56, the use of international brand maintenance free bearings, high voltage and frequency transmission and other advantages. Long term use of low temperature, high temperature and high altitude.

(Air volume) m <sup>3</sup> /h	(Static pressure) Pa	(Power) Kw	(Speed) r/min	(Voltage) V	(Noise) dB(A)	(Shaft diameter) Φ
1800~16000	100~250	0.37~2.2	940~2800	380	≤67~81	14~28



## AF200 Series EC Axial Fan

Material:

Impeller: Aluminium

Grille: Carbon steel wire, Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: CounterClockwise (View from indicator on impeller)

IP Grade: IP65

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068 (IEC 60034-14)

-Static mode vibration tested by GB 10068 (IEC 60034-14)

Shock loading

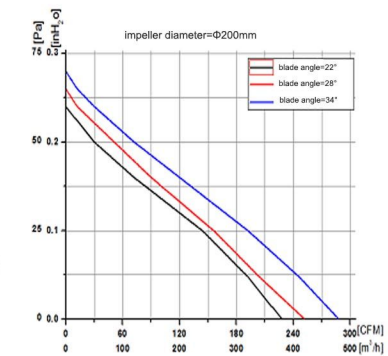
-Shock loading tested by GB/T 2423.5

Balance

-Balance tested by G 6.3

Certificate

-CCC (If request any other certificates, pls contact us )

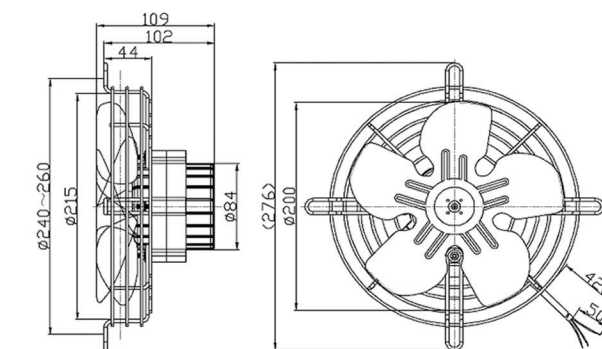


Motor	Fan dian (mm)	Blade deg (°)	Voltag (V)	Frequency (Hz)	Speed (r/min)	Power input (W)	Airflow (m <sup>3</sup> /h)
EM072-220-05	φ200	22	220	50/60	1300	4	380
	φ200	28				6	420
	φ200	34				8	480

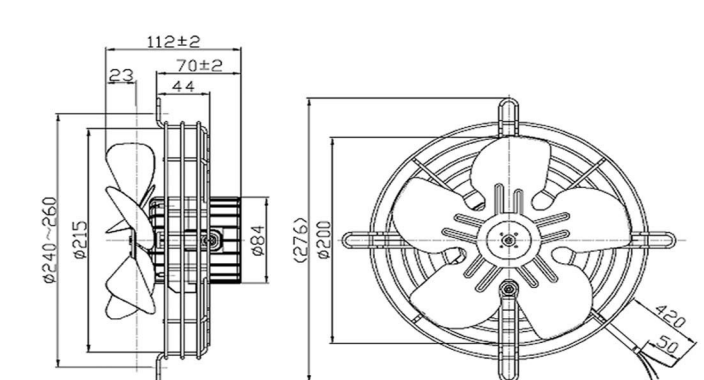
Product Application:

1. Refrigerator (cold chain) or Freezing showcas
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

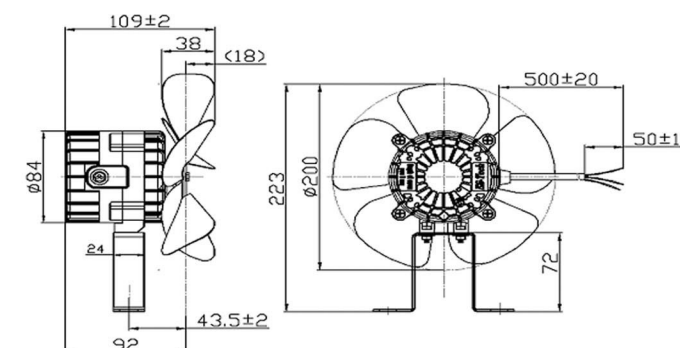
AF200A-AC220-01 Model Spec: AF200A-AC220-01



AF200B-AC220-01 Model Spec: AF200B-AC220-01



AF200C-AC220-01 Model Spec: AF200C-AC220-01

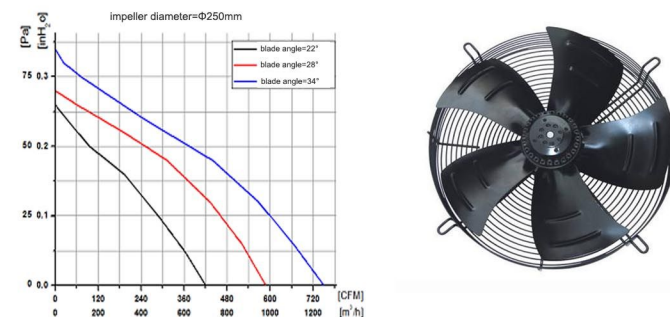


## AF250 Series EC Axial Fan

Product:  
 Material:  
 Impeller: Aluminium  
 Grille: Carbon steel wire, Black electrophoretic  
 Motor Casing: Die casting Alu  
 Blade Qty: 5PCS  
 Rotation: CounterClockwise (View from indicator on impeller)  
 IP Grade: IP65

Insulation Grade: B  
 Installation Way: Any  
 Running mode: Non-stop running(S1)  
 Bearing: Ball bearing

Quality Test Standard:  
 Mechanical Vibration  
 -Working mode vibration tested by GB 10068(IEC 60034-14)  
 -Static mode vibration tested by GB 10068(IEC 60034-14)  
 Shock loading  
 -Shock loading tested by GB/T 2423.5  
 Balance  
 -Balance tested by G 6.3  
 Certificate  
 -CCC(If request any other certificates,pls contact us )



Parameters:

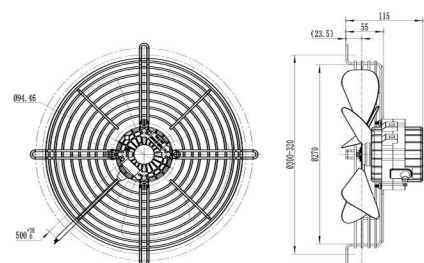
Motor	Fan dian	Blade deg	Voltag	Frequency	Speed	Power input	Airflow
	(mm)	(°)	(V)	(Hz)	(r/min)	(W)	(m³/h)
EM072A-AC220-02	Φ250	22	220	50/60	1300	12	700
	Φ250	28				21	980
	Φ250	34				32	1250

Product Application:

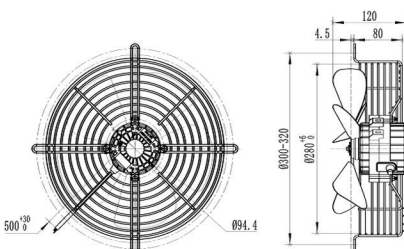
1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

Products assembly size:

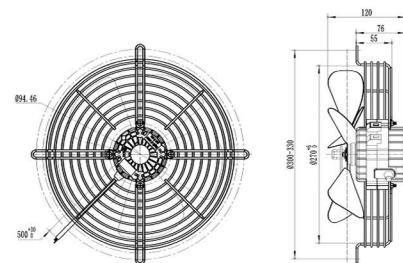
AF250A-AC220-01 Model Spec: AF250A-AC220-01



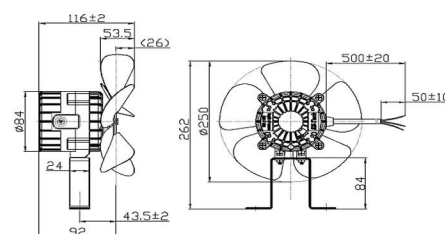
AF250B-AC220-01 Model Spec: AF250B-AC220-01



AF250A-AC220-02 Model Spec: AF250A-AC220-02



AF250C-AC220-01 Model Spec: AF250C-AC220-01



## AF300 Series AC Axial Fan

Product:  
 Material:  
 Impeller: Carbon steel plate with black coating  
 Grille: Carbon steel wire with black coating  
 Rotor Casing: Black electrophoretic  
 Motor Casing: Die casting Alu  
 Blade Qty: 5PCS

Rotation: Clockwise (View from lead wire)  
 Motor Pold:4P  
 IP Grade: IP44

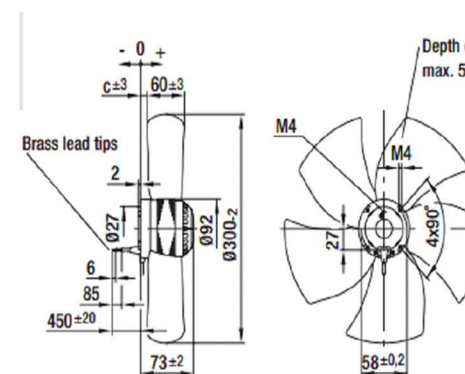
Insulation Grade: B  
 Installation Way: Any  
 Running mode: Non-stop running(S1)  
 Bearing: Ball bearing

Product Application:

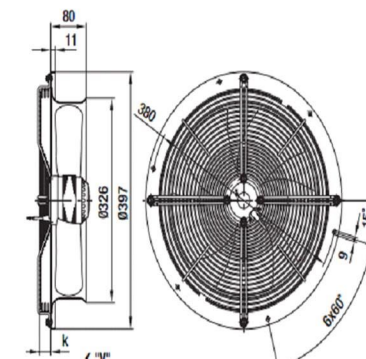
1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

Products assembly size:

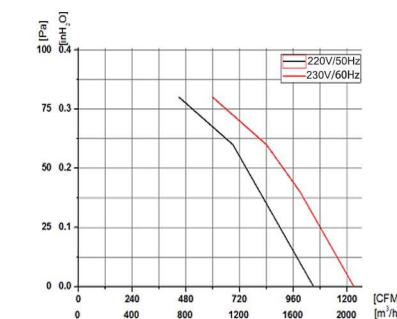
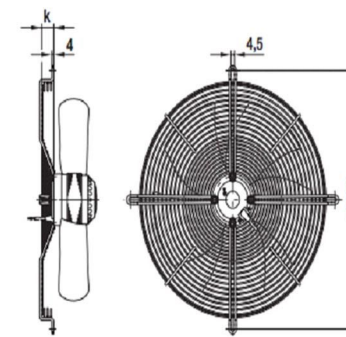
(C=13) Only impeller:



With air deflector:



(K=0) With grille:



Parameters

Motor	Fan dian	Voltag	Frequency	Speed	Power input	Current	Airflow	Fern. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m³/h)	(°C)	[dB(A)]
AM068A-AC220	Φ300	220	50	1400	70	0.31	1750	-20~+60	59
AM068B-AC230	Φ300	230	60	1650	95	0.42	2050	-20~+45	63

Quality Test Standard:

Mechanical Vibration  
 -Working mode vibration tested by GB 10068(IEC 60034-14)  
 -Static mode vibration tested by GB 10068(IEC 60034-14)  
 Shock loading  
 -Shock loading tested by GB/T 2423.5  
 Balance  
 -Balance tested by G 6.3  
 Certificate  
 -CCC(If request any other certificates,pls contact us )

## AF300 Series EC Axial Fan

Product:

Material:

Impeller: Aluminium

Grille: Carbon steel wire, Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: CounterClockwise (View from indicator on impeller)

IP Grade: IP65

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068(IEC 60034-14)

-Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

-Shock loading tested by GB/T 2423.5

Balance

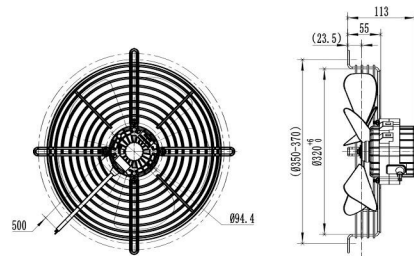
-Balance tested by G 6.3

Certificate

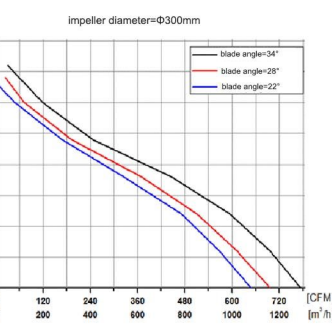
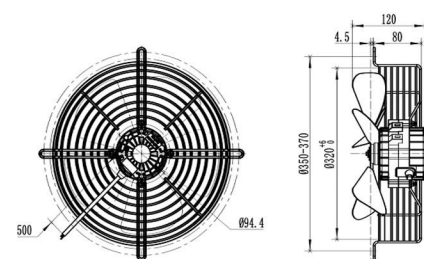
-CCC(If request any other certificates,pls contact us )

Products assembly size:

AF300A-AC220-01 Model Spec: AF300A-AC220-01



AF300B-AC220-01 Model Spec: AF300B-AC220-01



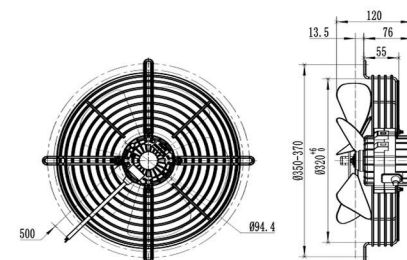
Parameters:

Motor	Fan diam (mm)	Blade deg (°)	Voltag (V)	Frequency (Hz)	Speed (r/min)	Power input (W)	Airflow (m <sup>3</sup> /h)
EM072A-AC220-01	Φ 300	22	220	50/60	1300	28	1080
	Φ 300	28				36	1160
	Φ 300	34				45	1280

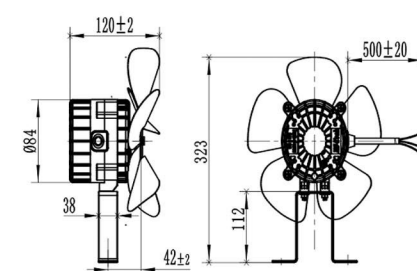
Product Application:

1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

AF300A-AC220-02 Model Spec: AF300A-AC220-02



AF300C-AC220-01 Model Spec: AF300C-AC220-01



## AF350 Series AC Axial Fan

Product:

Material:

Impeller: Carbon steel plate with black coating

Grille: Carbon steel wire with black coating

Rotor Casing: Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: Clockwise (View from lead wire)

Motor Pold:4P

IP Grade: IP44

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop

running(S1)

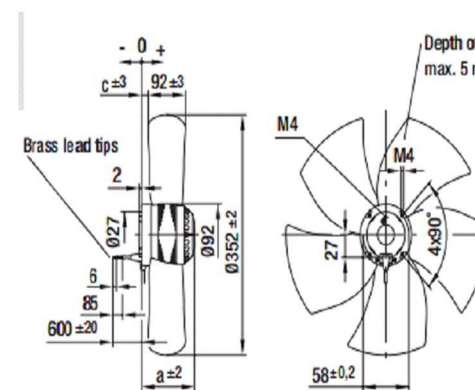
Bearing: Ball bearing

Product Application:

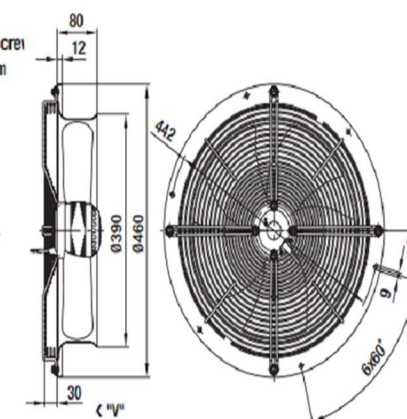
1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

Products assembly size:

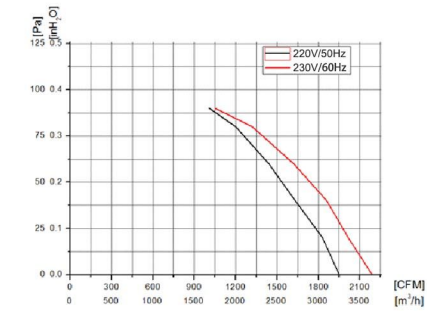
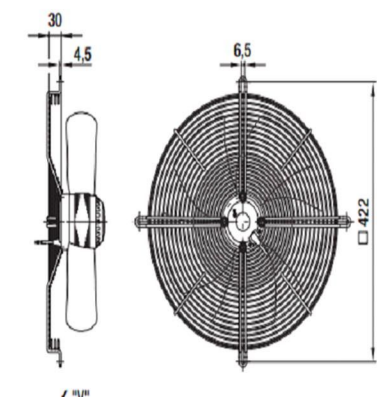
(a=102, c=10) Only impeller:



With air deflector:



With grille:



Parameters:

Motor	Fan diam	Voltag	Frequency	Speed	Power input	Current	AirFlow	Per. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m <sup>3</sup> /h)	(°C)	[dB(A)]
AM068A-AC220	Φ 350	220	50	1360	135	0.59	3250	-20~+60	64
AM068B-AC230	Φ 350	230	60	1550	182	0.81	3650	-20~+50	67

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068(IEC 60034-14)

-Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

-Shock loading tested by GB/T 2423.5

Balance

-Balance tested by G 6.3

Certificate

-CCC(If request any other certificates,pls contact us )

## AF350 Series EC Axial Fan

Product:

Material:

Impeller: Carbon steel plate with black coating

Grille: Carbon steel wire with black coating

Rotor Casing: Shape with cold rolled plate, Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: Clockwise (View from lead wire)

IP Grade: IP44

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Product Application:

1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

Electrical characteristic:

-Voltage range: 0~10VDC or

PWM speed regulation

-Output voltage 10VDC(max. 1.1mA)

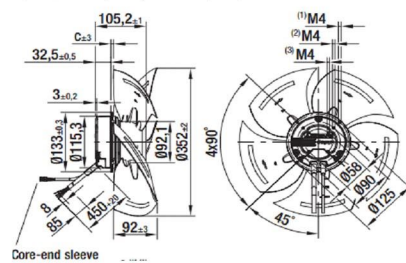
-Rotation speed output signal

-PFC compensating circuit

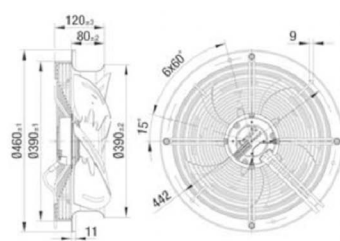
-Overheat protect circuit

Products assembly size:

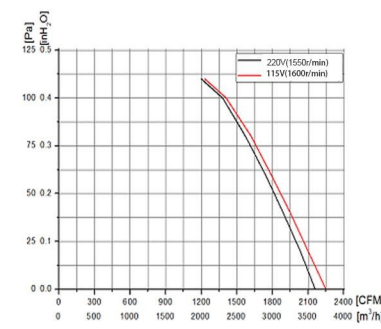
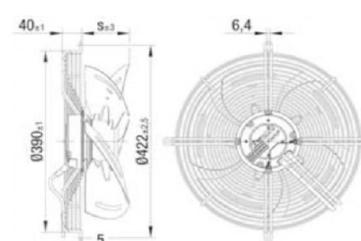
(C=7) Only impeller (C=7):



With air deflector:



(S=99) With grille (S=99):



Parameters:

Motor	Fan diam	Voltage	Frequency	Speed	Power input	Current	Airflow	Perm. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m³/h)	(°C)	[dB(A)]
EMTSA-AC220	350	220~240	50/60	1550	170	1.3	3600	-20~+60	65
EMTSA-AC115	350	100~130	50/60	1600	180	2.3	3750	-20~+60	66

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068(IEC 60034-14)

-Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

-Shock loading tested by GB/T 2423.5

Balance

-Balance tested by G 6.3

Certificate

-CCC(If request any other certificates,pls contact us )

Interface:

Pin NO.	Power output			Control output			
	1	2	3	1	2	3	4
Color	BROWN	BLUE	YLW/GRN	RED	YE	BU	BU
Function	L	N	PE	Vcc (+10V)	Vsp (0-10V)	GND	FG

## AF400 Series AC Axial Fan

Product:

Material:

Impeller: Carbon steel plate with black coating

Grille: Carbon steel wire with black coating

Rotor Casing: Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: Clockwise (View from lead wire)

Motor Pold:4P

IP Grade: IP44

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

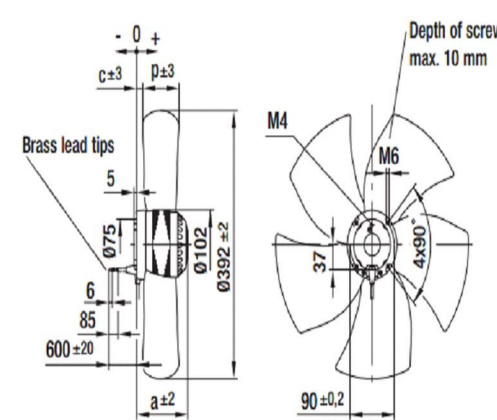
Bearing: Ball bearing

Product Application:

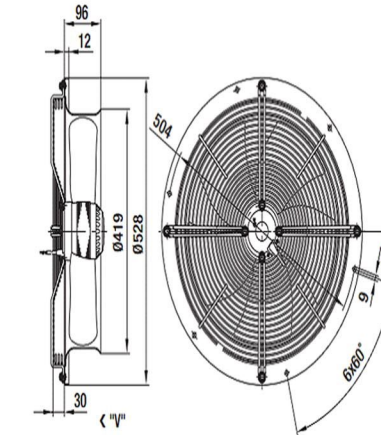
1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

Products assembly size:

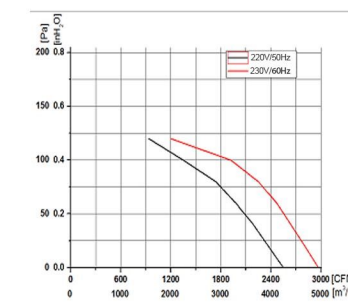
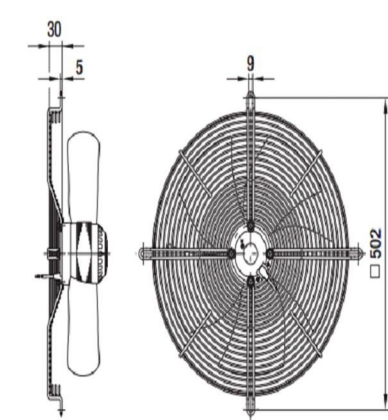
(a=117,c=26) Only impeller:



With air deflector:



With grille:



Parameters:

Motor	Fan diam	Voltage	Frequency	Speed	Power input	Current	Airflow	Perm. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m³/h)	(°C)	[dB(A)]
AMOT4A-AC220	400	220	50	1450	160	0.75	4250	-20~+60	69
AMOT4B-AC230	400	230	60	1700	240	1.1	4950	-20~+50	73

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068(IEC 60034-14)

-Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

-Shock loading tested by GB/T 2423.5

Balance

-Balance tested by G 6.3

Certificate

-CCC(If request any other certificates,pls contact us )



## AF450 Series EC Axial Fan

Product:

Material:

Impeller: Carbon steel plate with black coating

Grille: Carbon steel wire with black coating

Rotor Casing: Shape with cold rolled plate, Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: Clockwise (View from lead wire)

IP Grade: IP44

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Product Application:

1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

Electrical characteristic:

-Voltage range: 0~10VDC or

PWM speed regulation

-Output voltage 10VDC(max. 1.1mA)

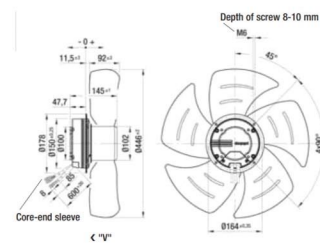
-Rotation speed output signal

-PFC compensating circuit

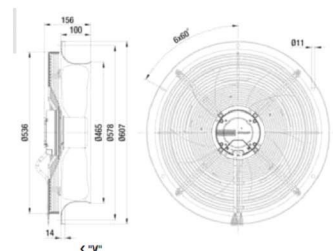
-Overheat protect circuit

Products assembly size:

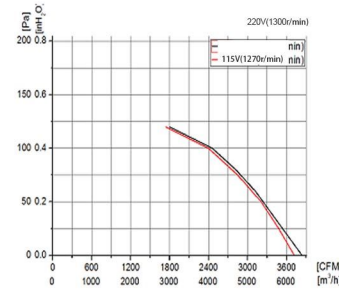
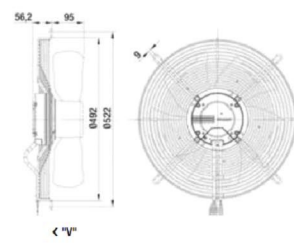
Only impeller:



With air deflector:



With grille:



Parameters:

Motor	Fan diam (mm)	Voltag (VAC)	Frequency (Hz)	Speed (r/min)	Power input (W)	Current (A)	Airflow (m³/h)	Perm. amb. temp (°C)	Noise [dB (A)]
EM084B-AC220	φ450	220~240	50/60	1300	330	2.1	6400	-20~+60	70
EM084B-AC115	φ450	100~130	50/60	1280	310	3.7	6200	-20~+60	69

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068(IEC 60034-14)

-Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

-Shock loading tested by GB/T 2423.5

Balance

-Balance tested by G 6.3

Certificate

-CCC(If request any other certificates, pls contact us )

Interface:

Pin NO.	Power output			Control output			
	1	2	3	1	2	3	4
Color	BROWN	BLUE	YLW/GRN	RED	YE	BU	BU
Function	L	N	PE	Vcc (+10V)	Vsp (0-10V)	GND	FG

## AF500 Series EC Axial Fan

Product:

Material:

Impeller: Carbon steel plate with black coating

Grille: Carbon steel wire with black coating

Rotor Casing: Shape with cold rolled plate, Black electrophoretic

Motor Casing: Die casting Alu

Impeller Qty: 5PCS

Rotation: Clockwise (View from lead wire)

IP Grade: IP44

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Product Application:

1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

Electrical characteristic:

-Voltage range: 0~10VDC or

PWM speed regulation

-Output voltage 10VDC(max. 1.1mA)

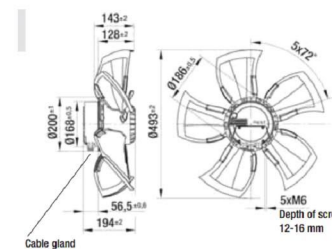
-Rotation speed output signal

-PFC compensating circuit

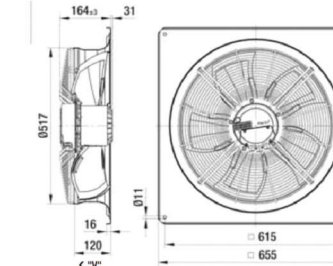
-Overheat protect circuit

Products assembly size:

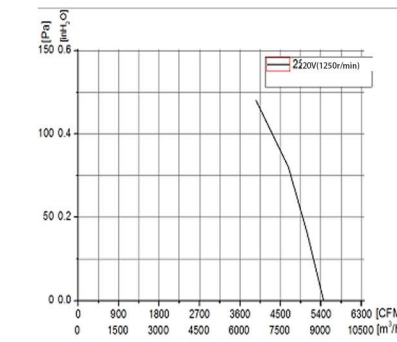
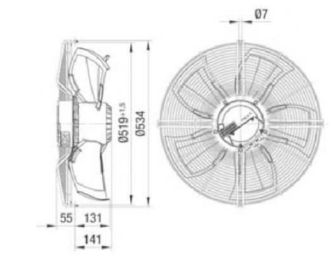
Only impeller:



With air deflector:



With grille:



Parameters:

Motor	Fan diam (mm)	Voltag (VAC)	Frequency (Hz)	Speed (r/min)	Power input (W)	Current (A)	Airflow (m³/h)	Perm. amb. temp (°C)	Noise [dB (A)]
EM112A-AC220	φ500	220~240	50/60	1250	650	4.2	9100	-20~+60	76

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068(IEC 60034-14)

-Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

-Shock loading tested by GB/T 2423.5

Balance

-Balance tested by G 6.3

Certificate

-CCC(If request any other certificates, pls contact us )

Interface:

Pin NO.	Power output			Control output			
	1	2	3	1	2	3	4
Color	BROWN	BLUE	YLW/GRN	RED	YE	BU	BU
Function	L	N	PE	Vcc (+10V)	Vsp (0-10V)	GND	FG

## AF500 Series AC Axial Fan

Product:

Material:

Impeller: Carbon steel plate with black coating

Grille: Carbon steel wire with black coating

Rotor Casing: Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: Clockwise (View from lead wire)

Motor Pold:4P

IP Grade: IP54

Insulation Grade: F

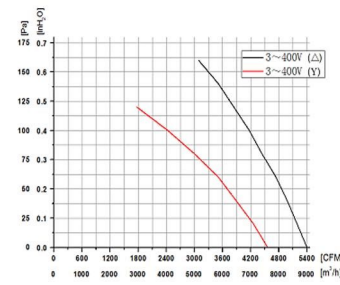
Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Product Application:

1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling



Parameters

Motor	Fan dia	Voltage	Frequency	Speed	Power input	Current	Airflow	Per. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m <sup>3</sup> /h)	(°C)	[dB(A)]
AM106A-AC380	φ500	3~400 Δ	50	1350	0.72	1.45	9000	-20~+60	72
AM106B-AC380	φ500	3~400 Υ	50	1060	0.48	0.85	7600	-20~+60	68

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068(IEC 60034-14)

-Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

-Shock loading tested by GB/T 2423.5

Balance

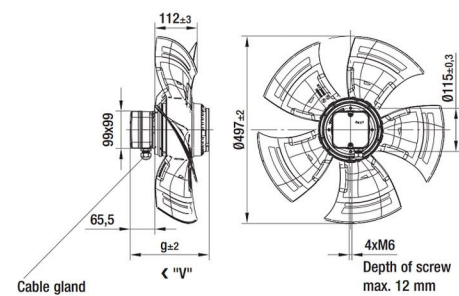
-Balance tested by G 6.3

Certificate

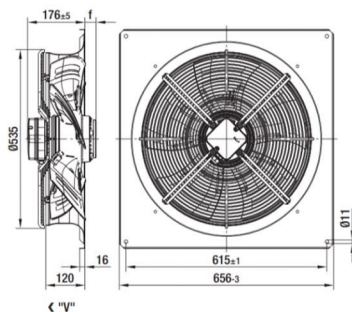
-CCC(If request any other certificates,pls contact us )

Products assembly size:

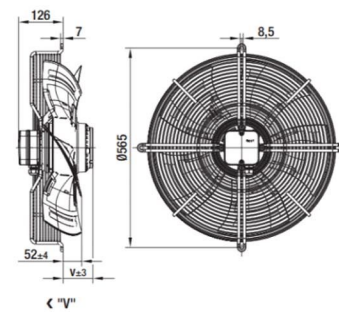
Only impeller (g=210)



With air deflector: (f=34)



With grille (V=84) :



## AF560 Series AC Axial Fan

Product:

Material:

Impeller: Carbon steel plate with black coating

Grille: Carbon steel wire with black coating

Rotor Casing: Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: Clockwise (View from lead wire)

Motor Pold:4P

IP Grade: IP54

Insulation Grade: F

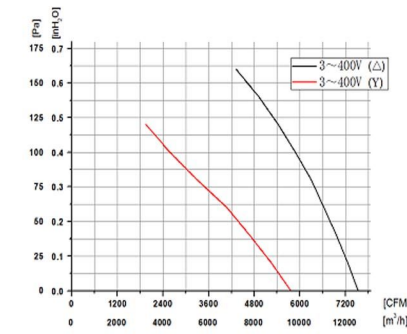
Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Product Application:

1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling



Parameters

Motor	Fan dia	Voltage	Frequency	Speed	Power input	Current	Airflow	Per. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m <sup>3</sup> /h)	(°C)	[dB(A)]
AM106A-AC380	φ560	3~400 Δ	50	1230	1.18	1.98	12550	-20~+60	73
AM106B-AC380	φ560	3~400 Υ	50	880	0.68	1.15	9600	-20~+60	65

Quality Test Standard:

Mechanical Vibration

-Working mode vibration tested by GB 10068(IEC 60034-14)

-Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

-Shock loading tested by GB/T 2423.5

Balance

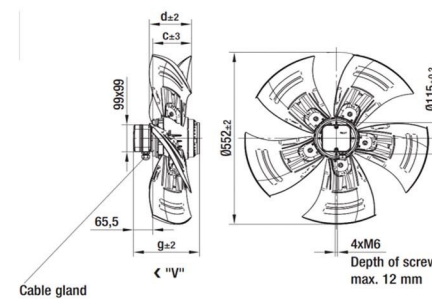
-Balance tested by G 6.3

Certificate

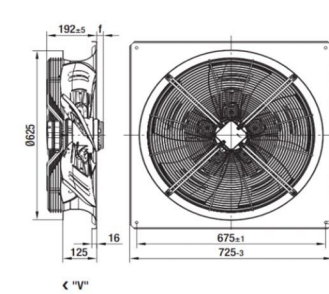
-CCC(If request any other certificates,pls contact us )

Products assembly size:

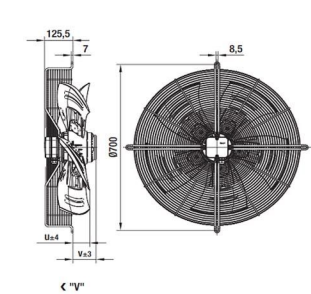
Only impeller: (c=124, d=134, g=225)



With air deflector: (f=33)



With grille (u=88, v=123)



## AF630 Series AC Axial Fan

Product:

Material:

Impeller: Carbon steel plate with black coating

Grille: Carbon steel wire with black coating

Rotor Casing: Black electrophoretic

Motor Casing: Die casting Alu

Blade Qty: 5PCS

Rotation: Clockwise (View from lead wire)

Motor Pold:4P

IP Grade: IP54

Insulation Grade: F

Installation Way: Any

Running mode: Non-stop running(S1)

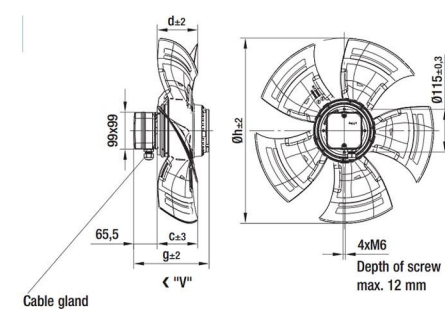
Bearing: Ball bearing

Product Application:

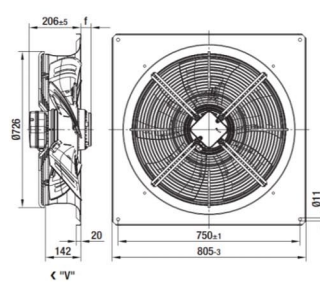
1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

Products assembly size:

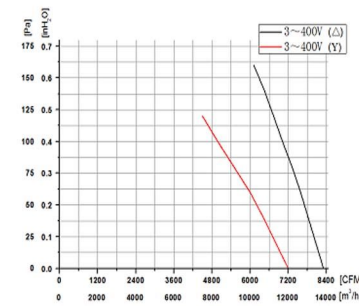
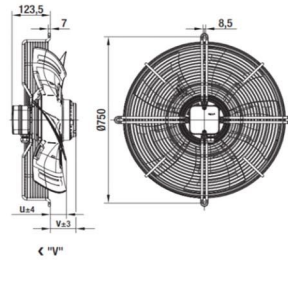
Only impeller (c=118, d=123, g=225, h=626) :



With air deflector: (f=24)



With grille: (u=60, v=101)



Parameters

Motor	Fan dia	Voltag	Frequency	Speed	Power input	Current	Airflow	Perm. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m³/h)	(°C)	[dB(A)]
AM106A-AC380	φ630	3~400 Δ	50	1330	1.28	2.52	13850	-20~+60	77
AM106B-AC380	φ630	3~400 T	50	1080	0.86	1.45	12000	-20~+60	72

Quality Test Standard:

Mechanical Vibration

- Working mode vibration tested by GB 10068(IEC 60034-14)
- Static mode vibration tested by GB 10068(IEC 60034-14)

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3

Certificate

- CCC (If request any other certificates, pls contact us )

## BC133 Series DC Backward Centrifugal fan

Product:

Material:

Impeller: PA66 Plastic

Motor Casing: Shape with cold rolled plate, Black electrophoretic

Impeller Qty: 7PCS

Working Temp: -20~+50° C

Rotation: CounterClockwise (View from lead wire)

IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1、GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

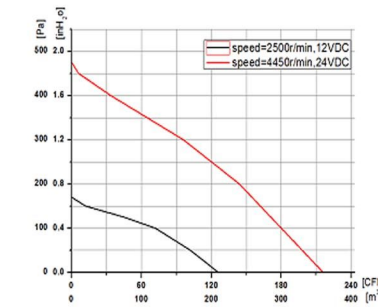
- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC, 0~5VDC or PWM speed regulation

Certificate

- CE (If request any other certificates, pls contact us )



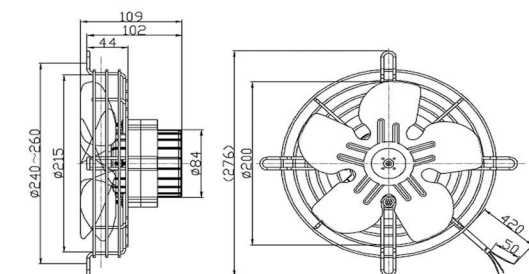
Parameters: (Can be customised)

Type	Motor	Voltag	Power input	Current	Speed	Airflow	Noise
		(V)	(W)	(A)	(r/min)	(m³/h)	dB(A)
BC133A-DC12-02	DM055A-DC12	DC12V	16	1.35	2500	210	52
BC133A-DC24-01	DM055A-DC24	DC24V	43	1.8	4450	360	72

Product Application

1. Air purifier and New fresh air exchange ventilator
2. Precision air conditioning and Cabinet cooling

Products assembly size:



## BC175 Series DC Backward Centrifugal fan

Product:

Material:

Impeller: PA66 Plastic

Motor Casing: Shape with cold rolled plate, Black electrophoretic

Blade Qty: 7PCS

Working Temp: -20~+60° C

Rotation: CounterClockwise (View from lead wire)

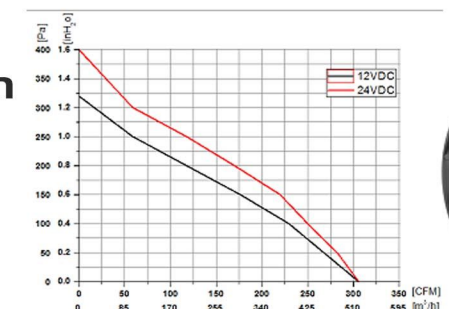
IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing



parameters (Can be customised)

Type	Motor	Voltag	Power input	Current	Speed	Airflow	Noise
		(V)	(W)	(A)	(r/min)	(m³/h)	LP: dB(A)
BC175A-DC12-00	DM055A-DC12	DC12V	42	3.5	3000	520	65
BC175A-DC24-00	DM055A-DC24	DC24V	40	1.7	3000	520	65



Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1, GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC, 0~5VDC or PWM speed regulation

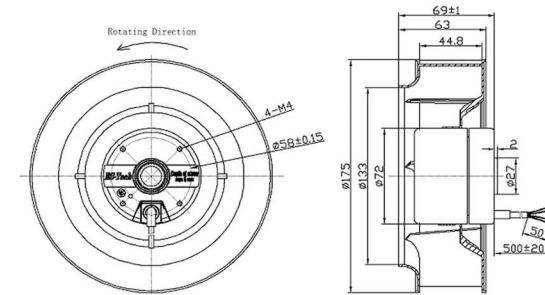
Certificate

- CE(If request any other certificates,pls contact us )

Product Application

1. Air purifier and New fresh air exchange ventilator
2. Precision air conditioning and Cabinet cooling

Products assembly size:



## BC220 Series DC Backward Centrifugal fan

Product:

Material:

Impeller: PA66 Plastic

Motor Casing: Shape with cold rolled plate, Black electrophoretic

Blade Qty: 7PCS

Working Temp:-20~+50° C

Rotation: CounterClockwise (View from lead wire)

IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1, GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3, according to JB/T8689

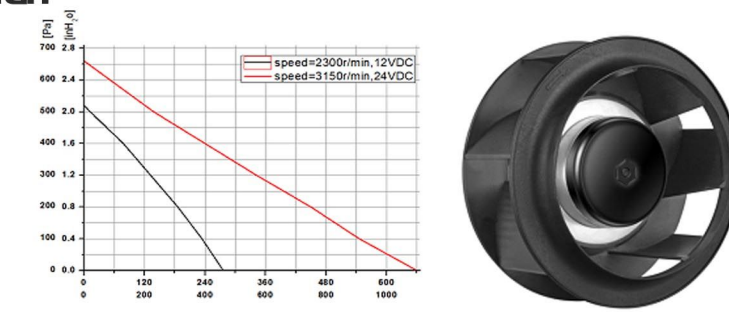
Speed Control

- Voltage range: 0~10VDC, 0~5VDC or PWM speed regulation

Certificate

- CE(If request any other certificates,pls contact us )

Products assembly size:

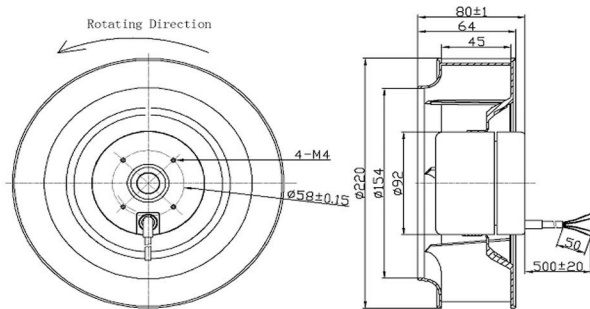


parameters

Type	Motor	Voltag (V)	Power input (W)	Current (A)	Speed (r/min)	Airflow (m³/h)	Noise LP: dB(A)
BC220A- DC12-00	DM075A- DC12	DC12	48	4	2300	460	56
BC220A- DC24-00	DM075A- DC24	DC24V	96	4	3150	1100	72

Product Application

1. Air purifier and New fresh air exchange ventilator
2. Precision air conditioning and Cabinet cooling



## BC280 Series AC Centrifugal fan

Product:

Material:

Impeller: Cold Rolled Plate, black electrophoretic

Rotor: Die casting, black electrophoretic

Motor Casing:Die casting

Blade Qty: 11PCS

Rotation: Clockwise (View from lead wire)

Motor Pole:4P

IP Grade: IP44

Insulation Grade: F

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB 10068 (IEC 60034-14)
- Constant Temperature tested by GB 10068 (IEC 60034-14)

Shock loading

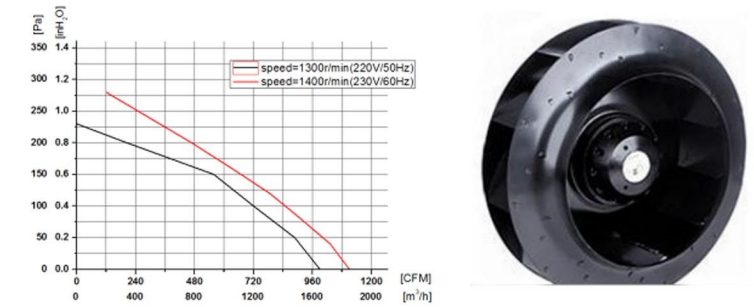
- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3

Certificate

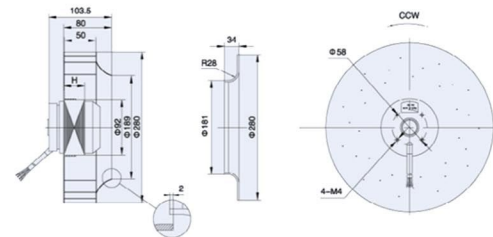
- CCC(If request any other certificates,pls contact us )



Parameters:

Motor	Fan dia (mm)	Voltag (VAC)	Frequency (Hz)	Speed (r/min)	Power input (W)	Current (A)	Airflow (m³/h)	Perm. amb. temp (°C)	Noise [dB(A)]
AM068A- AC220	φ280	220	50	1300	95	0.41	1650	-20~+60	66
AM068B- AC230	φ280	230	60	1400	130	0.56	1860	-20~+55	68

Products assembly size:



## BC280 Series DC Backward Centrifugal fan

Product:

Material:

Impeller: Carbon Steel

Motor Casing: Shape with cold rolled plate, silvery electrophoretic

Blade Qty: 11PCS

Working Temp:-20~+60° C

Rotation: CounterClockwise (View from lead wire)

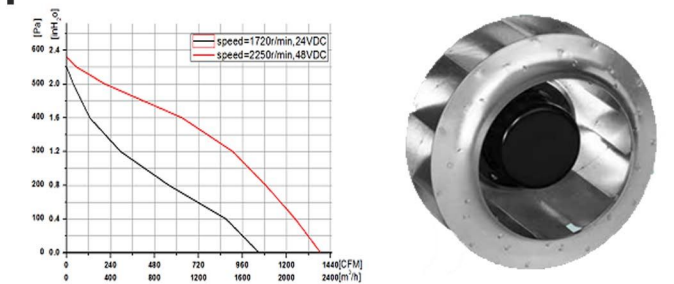
IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing



Parameters: ( Can be customised)

Type	Motor	Voltag (V)	Power input (W)	Current (A)	Speed (r/min)	Airflow (m³/h)	Noise LP: dB(A)
BC280A- DC24-00	DM075A- DC24	DC24V	96	4	1720	1750	68
BC280A- DC48-00	DM084A- DC48	DC48V	180	3.8	2250	2310	72

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1、 GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC, 0~5VDC or PWM speed regulation

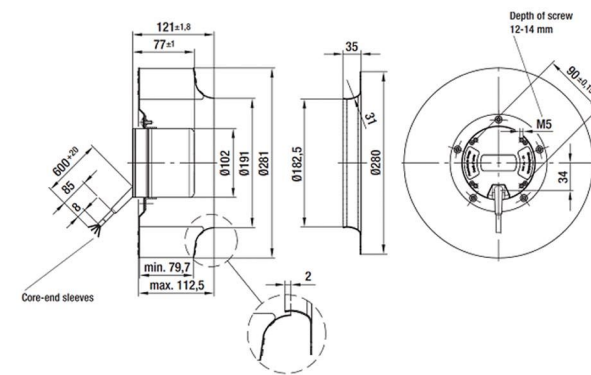
Certificate

- CE (If request any other certificates, pls contact us )

Product Application

1. Air purifier and New fresh air exchange ventilator
2. Precision air conditioning and Cabinet cooling

Products assembly size:



## BC310 Series DC Backward Centrifugal fan

Product:

Material:

Impeller: Alu

Motor Casing: Shape with cold rolled plate, silvery electrophoretic

Blade Qty: 6PCS

Working Temp: -20~+60° C

Rotation: CounterClockwise (View from lead wire)

IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1、 GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

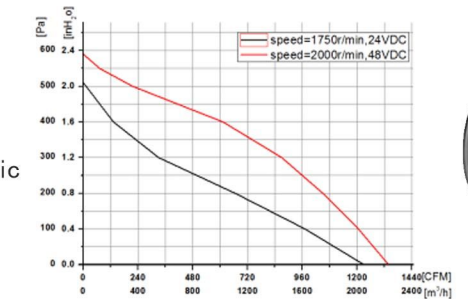
- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC, 0~5VDC or PWM speed regulation

Certificate

- CE (If request any other certificates, pls contact us )



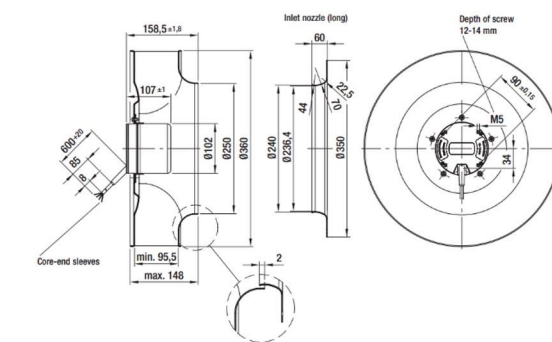
Parameters: (Can be customised)

Type	Motor	Voltag (V)	Power input (W)	Current (A)	Speed (r/min)	Airflow (m <sup>3</sup> /h)	Noise LP: dB (A)
BC310A-DC24-00	DM075A-DC24	DC24V	120	4.6	1750	2050	66
BC310A-DC48-00	DM084A-DC48	DC48V	180	3.8	2000	2230	71

Product Application

1. Air purifier and New fresh air exchange ventilator
- Precision air conditioning and Cabinet cool

Products assembly size:



## BC280 Series EC Backward Centrifugal fan

Product:

Material:

Impeller: Galvanized Plate

Rotor Casing: Shape with cold rolled plate, silvery electrophoretic

Motor Cover: Die Casting Alu

Impeller Qty: 11PCS

Rotation: Clockwise (View from lead wire)

IP Grade: IP44

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Quality Test Standard:

Mechanical Vibration

- Working mode vibration tested by GB 10068 (IEC 60034-14)
- Static mode vibration tested by GB 10068 (IEC 60034-14)

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3

Certificate

- CCC (If request any other certificates, pls contact us )

Electrical characteristic:

- Voltage range: 0~10VDC or

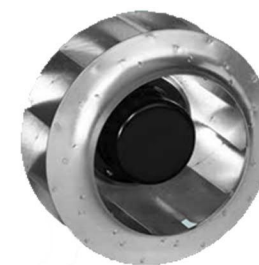
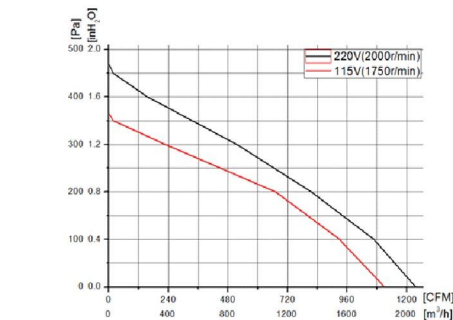
PWM speed regulation

- Output voltage 10VDC (max. 1.1mA)

- Rotation speed output signal

- PFC compensating circuit

- Overheat protect circuit



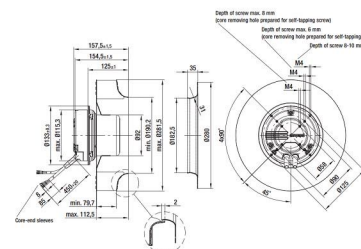
(Parameters)

Motor	Fan dia (mm)	Voltag (VAC)	Frequency (Hz)	Speed (r/min)	Power input (W)	Current (A)	Airflow (m <sup>3</sup> /h)	Perm. amb. temp (°C)	Noise [dB (A)]
EM075A-AC220	φ280	220~240	50/60	2000	145	1.1	2060	-20~+60	72
EM075A-AC115	φ280	100~130	50/60	1750	110	1.4	1850	-20~+60	70

Interface:

Pin NO.	Power output			Control output			
	1	2	3	1	2	3	4
Color	BROWN	BLUE	YLW/GRN	RED	YE	BU	BU
Function	L	N	PE	Vcc (+10V)	Vsp (0-10V)	GND	FG

Products assembly size:



## BC320 Series AC Centrifugal fan

Product:

Material:

Impeller: Alu Alloy

Rotor: Die casting, black electrophoretic

Motor Casing: Die casting

Blade Qty: 6PCS

Rotation: Clockwise (View from lead wire)

Motor Pole: 4P

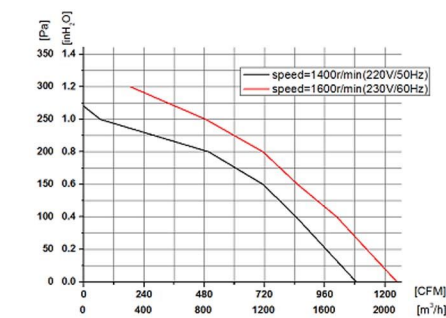
IP Grade: IP44

Insulation Grade: F

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing



parameters

Motor	Fan dia (mm)	Voltag (VAC)	Frequency (Hz)	Speed (r/min)	Power input (W)	Current (A)	Airflow (m <sup>3</sup> /h)	Perm. amb. temp (°C)	Noise [dB (A)]
AM074A-AC220	φ320	220	50	1400	110	0.51	1810	-20~+55	63
AM074B-AC230	φ320	230	60	1600	145	0.63	2080	-20~+55	66

**Quality Test Standard:**

**Environmental Test:**

- High-low Temperature tested by GB 10068 (IEC 60034-14)
- Constant Temperature tested by GB 10068 (IEC 60034-14)

**Shock loading**

- Shock loading tested by GB/T 2423.5

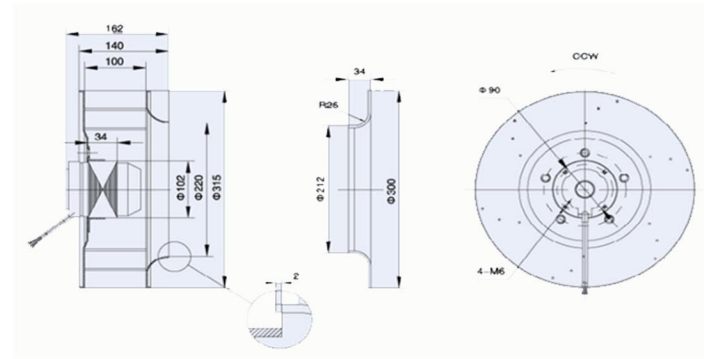
**Balance**

- Balance tested by G 6.3

**Certificate**

- CCC (If request any other certificates, pls contact us )

**Products assembly size:**



**BC355 Series AC Centrifugal fan**

**Product:**

**Material:**

Impeller: Alu Alloy

Rotor: Die casting, black electrophoretic

Motor Casing: Die casting

Blade Qty: 6PCS

Rotation: Clockwise (View from lead wire)

Motor Pole: 4P

IP Grade: IP44

Insulation Grade: F

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

**Quality Test Standard:**

**Environmental Test:**

- High-low Temperature tested by GB 10068 (IEC 60034-14)
- Constant Temperature tested by GB 10068 (IEC 60034-14)

**Shock loading**

- Shock loading tested by GB/T 2423.5

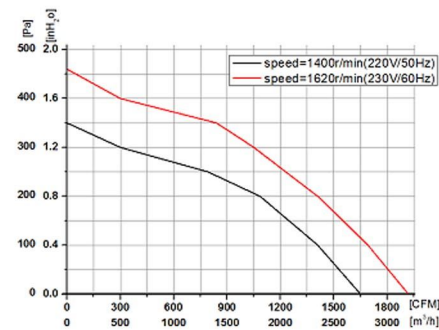
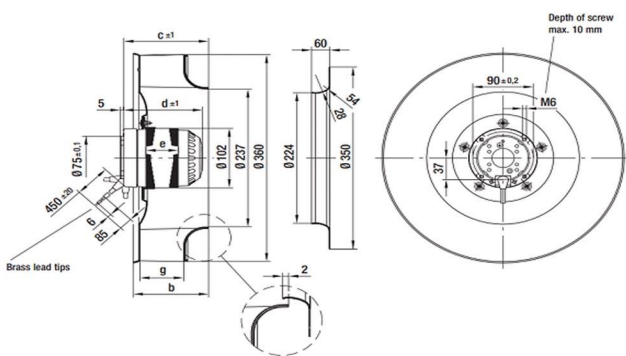
**Balance**

- Balance tested by G 6.3

**Certificate**

- CCC (If request any other certificates, pls contact us )

**Products assembly size:**



**parameters**

Motor	Fan dia	Voltag	Frequency	Speed	Power input	Current	Airflow	Perm. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m <sup>3</sup> /h)	(°C)	[dB(A)]
AM074A-AC220	φ355	220	50	1400	220	1	2750	-20~+50	68
AM074B-AC230	φ355	230	60	1620	300	1.35	3200	-20~+40	70

**BC355 Series DC Backward Centrifugal fan**

**Product:**

**Material:**

Impeller: Alu

Motor Casing: Shape with cold rolled plate, silvery electrophoretic

Blade Qty: 6PCS

Working Temp: -20~+60° C

Rotation: CounterClockwise (View from lead wire)

IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

**Quality Test Standard:**

**Environmental Test:**

- High-low Temperature tested by GB/T 2423.1, GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

**Shock loading**

- Shock loading tested by GB/T 2423.5

**Balance**

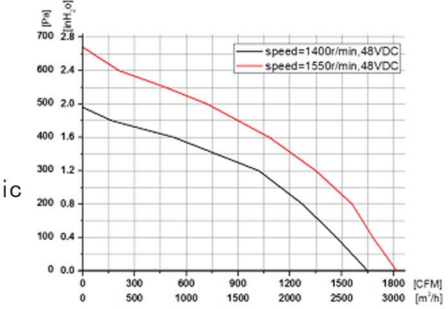
- Balance tested by G 6.3, according to JB/T8689

**Speed Control**

- Voltage range: 0~10VDC, 0~5VDC or PWM speed regulation

**Certificate**

- CE (If request any other certificates, pls contact us )



**Parameters: (Can be customised)**

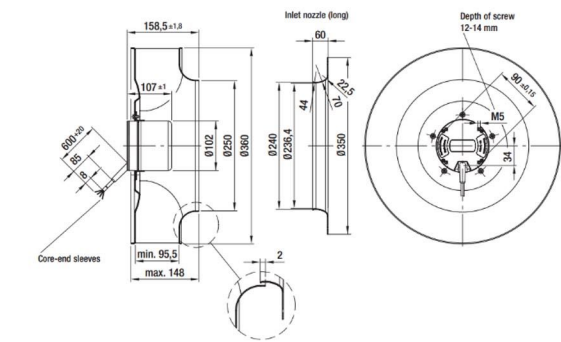
Type	Motor	Voltag	Power input	Current	Speed	Airflow	Noise
		(V)	(W)	(A)	(r/min)	(m <sup>3</sup> /h)	LP: dB(A)
BC355A-DC48-00	DM084A-DC48	DC48V	156	3.3	1400	2750	66
BC355A-DC48-01	DM084B-DC48	DC48V	180	3.8	1550	3030	71

**Product Application**

1. Air purifier and New fresh air exchange ventilator

Precision air conditioning and Cabinet cool

**Products assembly size:**



**BC355 Series EC Backward Centrifugal fan**

**Product:**

**Material:**

Impeller: Alu

Rotor Casing: Shape with cold rolled plate, black electrophoretic

Motor Cover: Die casting Alu

Blade Qty: 6PCS

Rotation: Clockwise (View from lead wire)

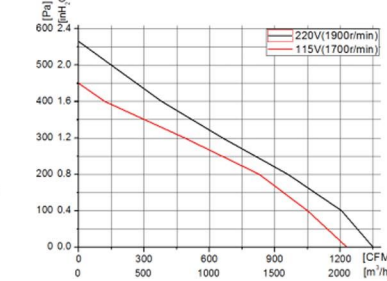
IP Grade: IP44

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing



**Parameters:**

Motor	Fan dia	Voltag	Frequency	Speed	Power input	Current	Airflow	Perm. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m <sup>3</sup> /h)	(°C)	[dB(A)]
EM084A-AC220	φ355	220~240	50/60	2000	390	2.5	3800	-20~+60	77
EM084A-AC115	φ355	100~130	50/60	1750	280	3.2	3250	-20~+60	74

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB 10068 (IEC 60034-14)
- Constant Temperature tested by GB 10068 (IEC 60034-14)

Shock loading

- Shock loading tested by GB/T 2423.5

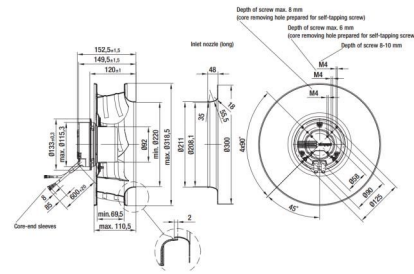
Balance

- Balance tested by G 6.3

Certificate

- CCC (If request any other certificates, pls contact us)

Products assembly size:



## BC400 Series AC Centrifugal fan

Product:

Material:

Impeller: Alu Alloy

Rotor: Die casting, black electrophoretic

Motor Casing: Die Casting

Blade Qty: 6PCS

Rotation: Clockwise (View from lead wire)

Motor Pole: 4P

IP Grade: IP44

Insulation Grade: F

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB 10068 (IEC 60034-14)
- Constant Temperature tested by GB 10068 (IEC 60034-14)

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3

Certificate

- CCC (If request any other certificates, pls contact us)

Electrical characteristic

- Voltage range: 0~10VDC or PWM speed regulation

- Output voltage 10VDC (max. 1.1mA)

- Rotation speed output signal

- PFC compensating circuit

- Overheat protect circuit

Interface:

Pin NO.	Power output			Control output			
	1	2	3	1	2	3	4
Color	BROWN	BLUE	YLW/GRN	RED	YE	BU	BU
Function	L	N	PE	Vcc (+10V)	Vsp (0-10V)	GND	FG

## BLOWER G4D200 415V 50HZ

Product:

Material:

Housing: Galvanized sheet steel

Impeller: Galvanized sheet steel

Rotor: Coated in black

Direction of rotation: Clockwise, seen on rotor

Type of protection: IP 44

Insulation class: B

Mounting position: Any

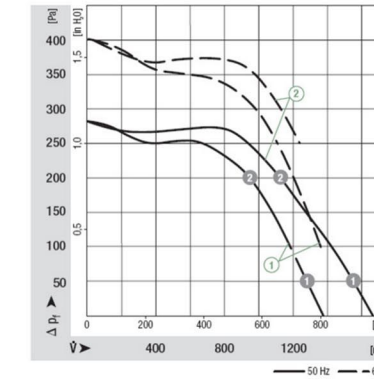
Condensate discharges: Rotor-side

Mode of operation: Continuous operation (S1)

Bearing: Maintenance-free ball bearings

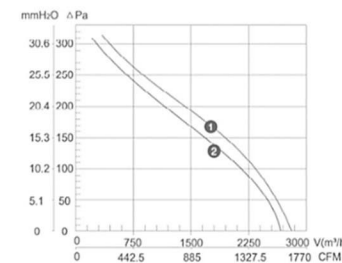
Tech Data:

Weight	7.4 kg
Fan size	200 mm
Rotor surface	Painted black
Impeller material	Senzimir galvanized sheet steel
Housing material	Senzimir galvanized sheet steel
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
with cable	Axial
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC



Data:

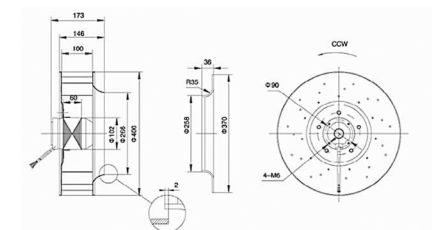
	Actual	Req. 2015
Overall efficiency $\eta_e$ / %	37.8	37.8
02 Measurement category	B	
03 Efficiency category	Total	
04 Efficiency grade N	49	49
05 Variable speed drive	No	
06 Year of manufacture	The year of manufacture is specified on the product's rating label.	
07 Manufacturer	ebm-papst Mulfingen GmbH & Co. KG Amtsgericht (court of registration) Stuttgart HRA 590344 D-74673 Mulfingen	
08 Type	G4D200-CL12-01	
09 Power consumption P / kW	0.17	
09 Air flow $q_v$ / m <sup>3</sup> /h	800	
09 Pressure increase to total p / Pa	287	
10 Speed (rpm) n / min	1425	
11 Specific ratio	1.00	
12 Recycling/disposal	Information on recycling and disposal is provided in the operating instructions.	
13 Maintenance	Information on installation, operation and maintenance is provided in the operating instructions.	
14 Additional components	Components used to calculate the energy efficiency that are not apparent from the measurement category are detailed in the CE declaration.	



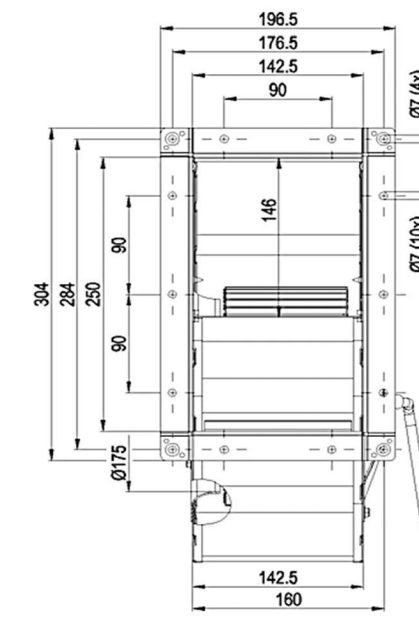
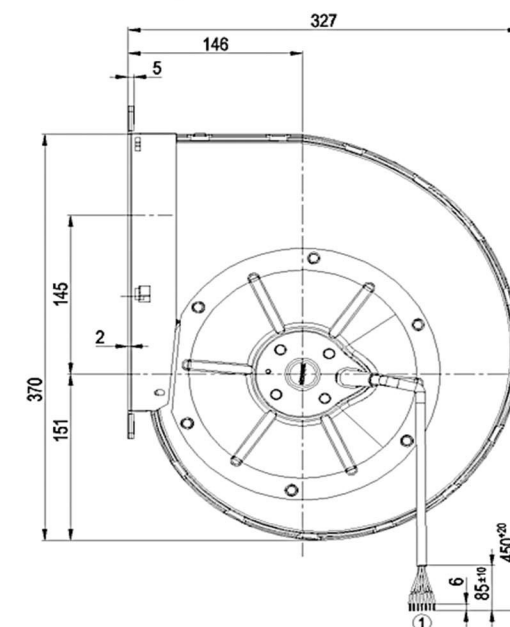
Parameters:

Motor	Fan diam	Voltag	Frequency	Speed	Power input	Current	AirFlow	Temp. amb. temp	Noise
	(mm)	(VAC)	(Hz)	(r/min)	(W)	(A)	(m <sup>3</sup> /h)	(°C)	(dB(A))
AM0744-AC220	400	220	50/60	1400	240	1.1	3000	-20~150	68
AM0744-AC380	400	380	50/60	1400	240	0.6	3000	-20~150	68

Products assembly size:



Products assembly size:



## BLW G4D200CL1223 400V 50HZ

Product:

Material

Housing: Galvanized sheet steel

Impeller: Galvanized sheet steel

Rotor: Coated in black

Direction of rotation: Clockwise, seen on rotor

Type of protection: IP 44

Insulation class: B

Mounting position :Any

Condensate discharges: Rotor-side

Mode of operation: Continuous operation(S1)

Bearing: Maintenance-free ball bearings

General Specifications:

Forward curved blower, G4D200-CL12-23, Left

Hand scroll 200mm diameter, 4 pole, 400 VAC 3

phase 50 Hz, single speed Flange "01404-2-4017"

to be loosely supplied with the blower. Insulation

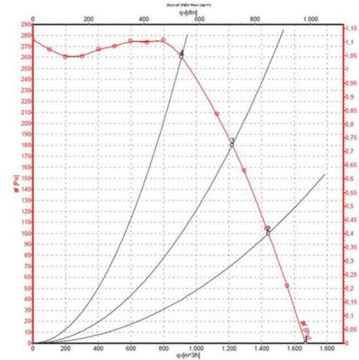
class F.

Detail Specifications (if Required):

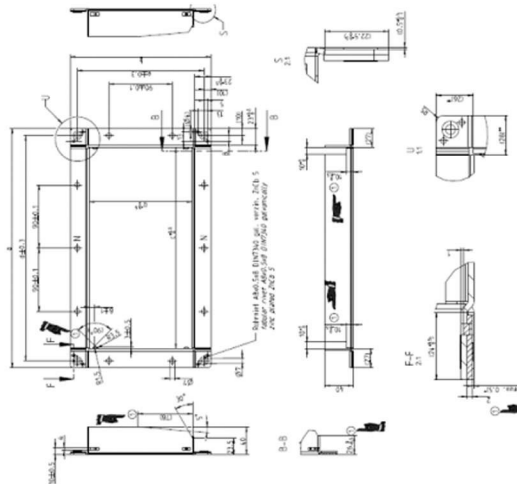
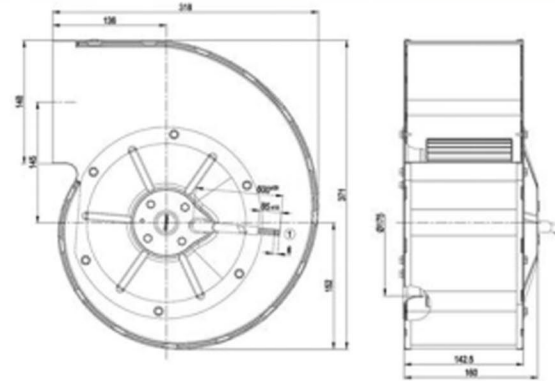
Note: all specifications are nominal unless otherwise indicated.

Nominal data			
Type	G4D200-CL12-23		
Motor	M4D074-EI		
Phase		1~	1~
Nominal voltage	VAC	400	400
Connection		Y	Y
Frequency	Hz	50	60
Type of data definition		rfa	ml
Valid for approval /standard		CE	CE
Speed	min-1	1300	1550
Power input	W	360	340
Current draw	A	0.66	0.62
Min.back pressure	Pa	0	250
Max.ambient temperature	°C	65	50

Technical features	
Leakage current	<0.75mA
Size	200mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor bottom: rotor on top on request
Humidity class	F2-1
Insulation	"F"
Cable exit	Axial
Condensate discharge holes	Roto-side
Motor bearing	Ball bearing
Mass	7.45kg



Detail Specifications (cont):



Measured values							
	U	f	n	P <sub>a</sub>	I	QV	P <sub>eff</sub>
	V	Hz	Min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	400	50	1300	360	0.66	1670	0
2	400	50	1335	299	0.58	1440	100
3	400	50	1370	251	0.53	1220	180
4	400	50	1410	195	0.48	910	260

01404-2-4017	196.5	304	142.5	176.5	264	250	146.30	GF	X	235	28	-
Ident-Nr	MaB a	MaB b	MaB c	MaB d	MaB e	MaB g	MaB h	Auguf design	Bohrung K bore k	MaB L	MaB M	Bohrung N bore N
Ident no.	Dimension a	Dimension b	Dimension c	Dimension d	Dimension e	Dimension g	Dimension h			Dimension L	Dimension M	

## FD120 Series DC Forward Centrifugal Fan

Product:

Material:

Impeller: Galvanized Plate

Fan Casing: Shape with cold rolled plate with black coating

Impeller Dia: φ120-62

Working Temp: -40~+60° C

Rotation: CounterClockwise (View from lead wire)

IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1、GB/T 2423.2

- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

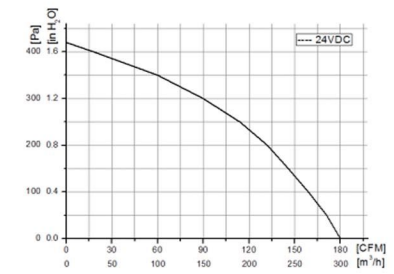
- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC or PWM speed regulation

Certificate

-CE (If request any other certificates, pls contact us )



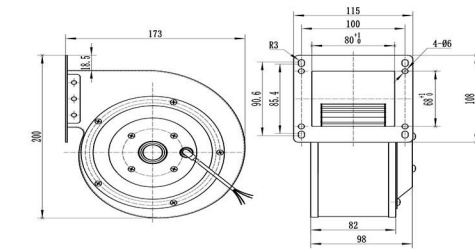
Parameters :

Motor	Voltag	Power input	Current	Speed	Airflow	Noise
	(V)	(W)	(A)	(r/min)	(m <sup>3</sup> /h)	LP: dB(A)
DM055A-DC24-01	DC24V	35	1.6	2200	300	70

Product Application

Widely used for Air purifier and New fresh air exchange ventilator

Products assembly size:



## FD140 Series DC Forward Centrifugal Fan

Product:

Material:

Impeller: Galvanized Plate

Fan Casing: Shape with cold rolled plate with black coating

Impeller Dia: φ140-58

Working Temp: -40~+60° C

Rotation: CounterClockwise (View from lead wire)

IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running(S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1、GB/T 2423.2

- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

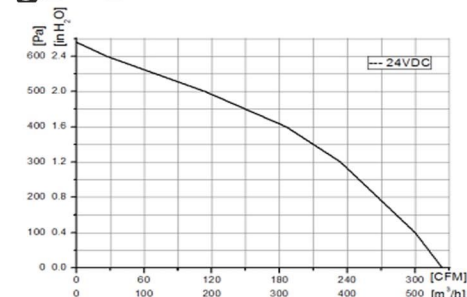
- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC or PWM speed regulation

Certificate

-CE (If request any other certificates, pls contact us )



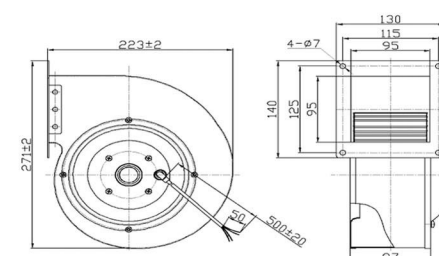
Parameters :

Type	Motor	Voltag	Power input	Current	Speed	Airflow	Noise
	(V)	(W)	(A)	(r/min)	(m <sup>3</sup> /h)	LP: dB(A)	
FD140-DC24-00	DM055A-DC24	DC24V	45	1.9	2200	530	70

Product Application:

Widely used for Air purifier, New fresh air exchange ventilator and Cooker hood

Products assembly size:



## FD180 Series DC Forward Centrifugal Fan

Product:

Material:

Impeller: Galvanized Plate

Fan Casing: Shape with cold rolled plate with black coating

Impeller Dia:  $\phi$  180-76

Working Temp:  $-40^{\circ}$ ~ $+60^{\circ}$  C

Rotation: CounterClockwise (View from lead wire)

IP Grade: IP42

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1、GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

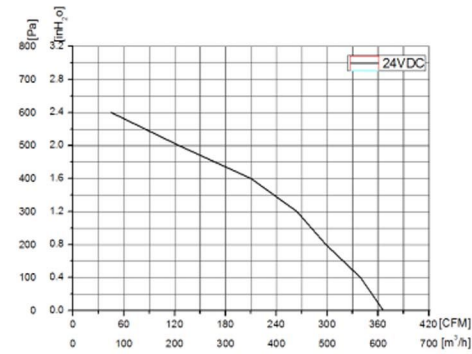
- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC or PWM speed regulation

Certificate

- CE (If request any other certificates, pls contact us )



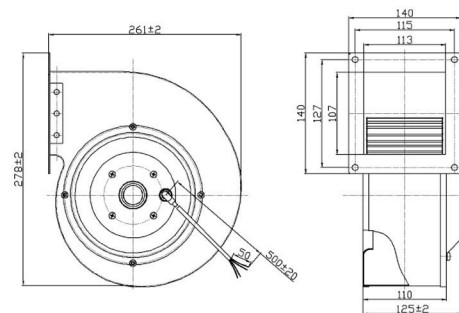
Parameters :

Type	Motor	Voltag (V)	Power input (W)	Current (A)	Speed (r/min)	Airflow (m³/h)	Noise LP: dB(A)
FD180A-DC24-00	DM075A-DC24	DC24V	50	2.1	1200	610	65

Product Application:

Widely used for Air purifier and New fresh air exchange ventilator

Products assembly size:



Quality Test Standard:

Environmental Test

- High-low Temperature tested by GB/T 2423.1、GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC or PWM speed regulation

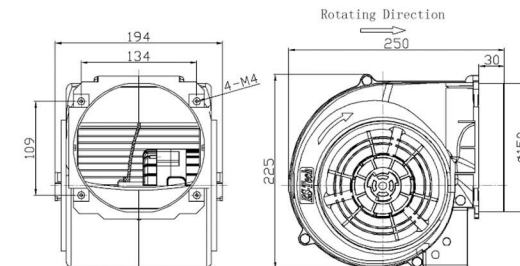
Certificate

- CCC (If request any other certificates, pls contact us )

Product Application:

Widely used for Air purifier, New fresh air exchange ventilator and Cooker hood

Products assembly size:



## FS146 Series Double Inlet Centrifugal Fan

Product:

Material:

Impeller: Engineering plastics PP

Fan Casing: Engineering plastics PP

Impeller Dia:  $\phi$  146-150

Working Temp:  $-40^{\circ}$ ~ $+60^{\circ}$  C

Rotation: CounterClockwise (View from lead wire)

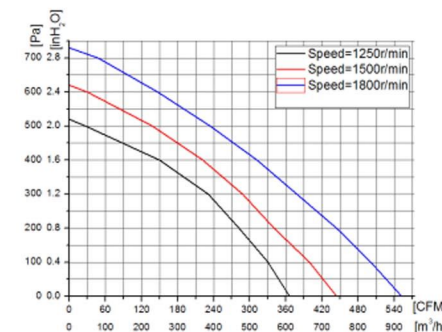
IP Grade: IP65

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing



Parameters: (Use Internal rotor motor)

Type	Motor	Voltag (V)	Power input (W)	Current (A)	Speed (r/min)	Airflow (m³/h)	Noise LP: dB(A)
FS146A-DC310-01	DM072A	DC310V	35	0.26	1000	430	55
FS146A-DC310-02		DC310V	55	0.4	1250	620	62
FS146A-DC310-03		DC310V	75	0.52	1500	734	68
FS146B-DC310-01	DM075A	DC310V	130	0.94	1800	920	70
FS146B-AC220-02	EM075A	AC220V	130	0.94	1800	920	73

Remark: 92 external rotor brushless DC motor used for FS146B Series with outward control panel

## FS225 Series Double Inlet Centrifugal Fan

Product:

Material:

Impeller: Cold rolled Plate with matte black coating

Fan Casing: Cold rolled Plate with matte black coating

Impeller Dia:  $\phi$  146-180

Working Temp:  $-40^{\circ}$ ~ $+60^{\circ}$  C

Rotation: CounterClockwise (View from lead wire)

IP Grade: IP54

Insulation Grade: B

Installation Way: Any

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test

- High-low Temperature tested by GB/T 2423.1、GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

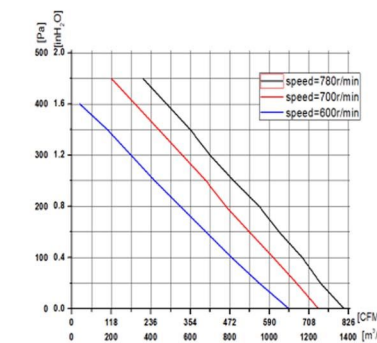
- Balance tested by G 6.3, according to JB/T8689

Speed Control

- Voltage range: 0~10VDC or PWM speed regulation

Certificate

- CCC (If request any other certificates, pls contact us )



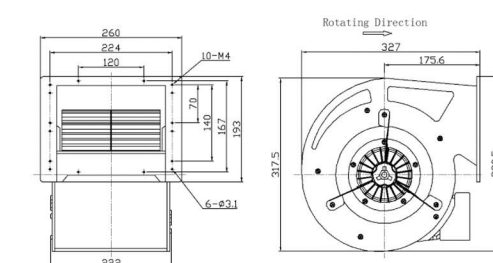
Parameters:

Type	Motor	Voltag (V)	Power input (W)	Current (A)	Speed (r/min)	Airflow (m³/h)	Noise LP: dB(A)
FS225A-AC220-01	DM075A	AC220V	65	0.49	600	1100	63
FS225A-AC220-02		AC220V	102	0.72	700	1250	67
FS225A-AC220-03		AC220V	135	0.93	780	1380	70

Product Application:

Widely used for Air purifier, New fresh air exchange ventilator and Cooker hood

Products assembly size:



# EM Brushless Motor Series

## Product:

Feature: Brushless Motor

IP Grade: IP65/ IP55

Cooling Way: IC411

Motor Casing: Die Casting Alu

Working Temp: -20~+60° C

Rotation: CounterClockwise (View from motor shaft)

Power: AC/DC 1-Phase

Insulation Class: B

Installation mode: Vertical or Horizontal

Protection: Electronic circuit protection

Running mode: Non-stop running (S1)

Bearing: Ball bearing

Quality Test Standard:

Environmental Test:

- High-low Temperature tested by GB/T 2423.1、GB/T 2423.2
- Constant Temperature tested by GB/T 2423.3

Shock loading

- Shock loading tested by GB/T 2423.5

Balance

- Balance tested by G 6.3, according to JB/T8689

Speed Control

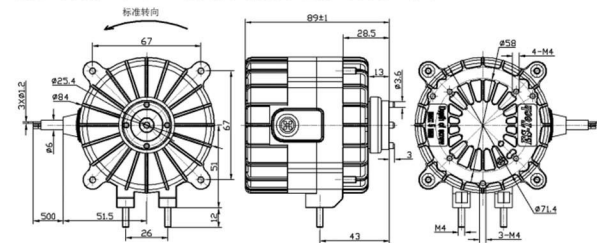
- Voltage range: 0~5VDC Constant Speed or PWM speed regulation

Certificate

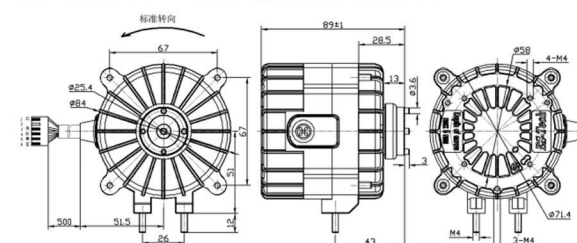
- CCC, CE (If request any other certificates, pls contact us )

## Products assembly size:

EM072A-AC220-01 Model Spec: EM072A-AC220-01



DM072A-DC310-01 Model Spec: DM072A-DC310-01



## Interface:

Pin NO.	1	2	3
Color	BROWN	BLUE	YLW/GRN
Function	L	N	E

## Interface:

Pin NO.	1	2	3	4	5	6
Color	RD	—	BK	WH	YE	BU
Function	Vm (+310VDC)	—	GND	Vcc (+15V)	Vsp (0-5V)	FG



Parameters: (Can be customised)

Motor	Voltag (V)	Frequency (Hz)	Power Output (W)	Speed (r/min)	Torque (N·m)	Pole number 极(P)
EM072A-AC220-01	AC220~240	50/60	25	1300	0.19	4P
DM072-DC310-01	DC310	—	30	1500	0.19	4P

## Product Application:

1. Refrigerator (cold chain) or Freezing showcase
2. Industrial Oil cooler or Water chiller
3. Condenser cooling

# Motor: AS138-70/4



## Technology Parameters:

Ambient temperature: +5~+70° C	Rated Frequency: 60Hz
Storage temperature: -40~+80°C	Rated Power: 1.2/0.7KW
Relative Humidity: 100%	Current Rating: 2.25/1.5 A
Altitude: 2500m	Rated Speed: 1640/1400 r/min
Power: Three-phase 400△/Y-V	Power factor: cosφ0.68/0.8
Rated Frequency: 50Hz	Insulation class: F
Rated Power: 1.2/0.7KW	Protection class: IP54
Current Rating: 2.5A/1.3A	The winding connection: △/Y
Rated Speed: 1320/1040 r/min	Comply to: EN60034
Power factor: cosφ0.68/0.8	working mechanisms: S1
Rated Voltage: Three-phase 460△/Y-V	Model: AS138-70/4

## Motor size:

