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ZIBO BORUI FAN CO., LTD.

ABOUT US

Zibo Borui Fan Co., Ltd. is located in Zibo City, Shandong Province, a nationally renowned core industrial base for chemical and mechanical equipment manufacturing with complete industrial supporting facilities and profound manufacturing foundations. Founded in 2015 with a registered capital of 3 million US dollars and 35 employees, the company is a professional manufacturer integrating fan research and development, precision production, sales and after-sales service. It holds two subsidiary companies: Zibo Anting Machinery Co., Ltd. and Shandong Licheng Industrial Equipment Co., Ltd., forming a complete industrial layout.

With years of industry experience, the company has obtained multiple international authoritative certifications including ISO9001 quality management system, ATEX explosion-proof certification and CE certification, ensuring all products comply with domestic and international standards. Equipped with high-power laser cutting machines, 2hines, large CNC lathes and a full set of advanced processing and testing equipment, we guaranteed high precision, stable performance and reliable product quality for every order.





We provide full-customized fan design and manufacturing solutions with a complete product portfolio covering diverse industrial applications. Our main products include: explosion-proof and conventional axial fans; T30, T35, BT35, BFT35 series general axial fans; FKZ, FKCDZ, FBCDZ, FBCZ, FK, FBD series mine axial fans; SDF, SDS, DTF, SD, SDLF, SDDF series tunnel ventilation fans: Our products are widely applied in chemical, mining, tunnel construction, building yentilation and other industrial fields.

Adhering to the business philosophy of "Integrity First, Service Supreme", the company focuses on technological innovation and maintains long-term industry-university cooperation with top universities including Tsinghua University, Harbin Engineering University and Xi' an Jiaotong University. We continuously upgrade product structures and core technologies to improve overall performance and environmental adaptability.

With stable product quality, professional customized solutions and comprehensive after-sales support, we have long-term cooperation with large central state-owned enterprises such as China National Chemical Engineering, China Aerospace, Datang Group, China Huaneng, China Huadian and Aluminum Corporation of China. With solid strength and reliable market reputation, Zibo Borui Fan has become a highly competitive and influential brand in China's fan industry.









Mining Fan Series

FB Series Explosion-proof Electric Fan for Mining Use

1. Product Introduction

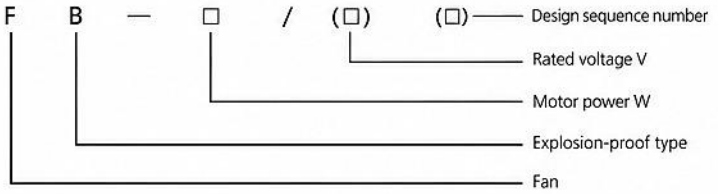
FB series explosion-proof electric fans for mining use (hereinafter referred to as fans) are mainly developed for local high-temperature points under coal mines, and are used to increase local air flow and improve the comfort of local working environments.



The fans are suitable for ventilation and air conditioning equipment in underground coal mines, ventilation of the ground surface of coal mines, high-temperature adjustment (such as transformer rooms, pump rooms and other places), as well as ventilation and heat dissipation in other places where personnel work for a long time.

The explosion-proof type of the fan: explosion-proof type; explosion-proof mark: Exdb I Mb.

2. Model Composition and Meaning



Example 1: FB-2200/(660/1140)(B) explosion-proof electric fan for mining use indicates: rated power 2.2kW, rated voltage 660V/1140V, the second structural form of the fan.
The explosion-proof type of the fan and its ancillary motor: explosion-proof type; explosion-proof mark: Exdb I Mb.

3. Operating Environmental Conditions

The fan shall operate under the following conditions:

a) Ambient temperature: -15°C ~ +40°C;
b) Relative humidity: not greater than 95%RH (+25°C);
c) Altitude: not exceeding 1000m;
d) Installed in coal mines without the risk of explosive gases;
e) In environments without corrosive gases and vapors, such as non-ferrous metals and insulated materials;
f) In places without severe vibration;
g) In places without strong electromagnetic interference and impact vibration.

If the altitude exceeds 1000m or the ambient temperature is higher than +40°C, it should be handled according to the provisions of GB/T 755 or through consultation between both parties.

4. Structural Features and Working Principle

The fan mainly consists of a motor, protective cover, impeller, explosion-proof motor, explosion-proof terminal box, etc. The fan is driven by the explosion-proof motor, and the impeller is directly installed on the motor shaft. The motor is fixed in the fan casing through a bracket, and the motor is cooled by the air transported through the impeller.

5. Product Technical Parameters

Model	Rated air volume (m^3/h)	Rated power (kW)	Rated voltage (V)	Noise dB(A)	Explosion-proof mark
FB-550/(380/660)	4600 ~ 4800	0.55	380, 660	≤ 85	Exdb I Mb
FB-750/(380/660)	5100 ~ 6600	0.75	380, 660	≤ 85	Exdb I Mb
FB-1100/(660/1140)(B)	4000 ~ 7800	1.1	660/1140	≤ 85	Exdb I Mb
FB-1100/(660/1140)	5800 ~ 7800	1.1	660/1140	≤ 85	Exdb I Mb
FB-1100/(380/660)	5800 ~ 7800	1.1	380/660	≤ 85	Exdb I Mb
FB-1500/(660/1140)	6500 ~ 9000	1.5	660/1140	≤ 85	Exdb I Mb
FB-1500/(380/660)	6500 ~ 9000	1.5	380/660	≤ 85	Exdb I Mb
FB-2200/(660/1140)(B)	4800 ~ 8800	2.2	660/1140	≤ 85	Exdb I Mb
FB-2200/(660/1140)	7500 ~ 10200	2.2	660/1140	≤ 85	Exdb I Mb
FB-2200/(380/660)	7500 ~ 10200	2.2	380/660	≤ 85	Exdb I Mb
FB-7500/(380/660)	44000 ~ 55000	7.5	380/660	≤ 85	Exdb I Mb
FB-11000/(380/660)	50000 ~ 60000	11	380/660	≤ 85	Exdb I Mb
FB-15000/(380/660)	55000 ~ 70000	15	380/660	≤ 85	Exdb I Mb
FB-22000/(380/660)	63000 ~ 80000	22	380/660	≤ 85	Exdb I Mb
FB-30000/(380/660)	70000 ~ 90000	30	380/660	≤ 85	Exdb I Mb

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.



I. Used for ventilation and air conditioning equipment in underground coal mines, ground surface of coal mines, high-temperature adjustment (transformer rooms, pump rooms and other places) and other places where personnel work for a long time.



II. Used for ventilation and heat dissipation in underground coal mines, ventilation dedicated cooling equipment for coal mines in high-temperature areas (transformer rooms, pump rooms and other places) and other places where personnel work for a long time, as well as cooling for vehicles and municipalities.



III. Used for ventilation and heat dissipation of tunnels and auxiliary tunnels for selected coal mines, grounding stations, coal bins in thermal power plants, ventilation and air conditioning equipment in mining areas, ventilation and heat dissipation in underground coal mines, high-temperature adjustment (transformer rooms, pump rooms and other places), as well as other places where personnel work for a long time.

KCS SERIES WET DUST COLLECTOR FAN

1. Product Introduction

KCS series wet dust collector fan (hereinafter referred to as dust collector fan) is mainly used at dust concentration points such as tunneling, rock drilling and anchor spraying, excavation operations, coal washing plants, and coal preparation workshops. It collects and removes dust from relatively concentrated work areas, purifies the air, removes harmful substances from the air, effectively improves the working environment to meet industrial hygiene standards, and protects workers' health.



2. Working Principle

The dust collector fan uses water as the medium. Under the action of mechanical force, water is atomized into fine droplets, which collide and combine with dust particles in the polluted air to achieve purification.

The fan adopts a highly efficient combined purification principle integrating civil engineering wet dust removal technology, self-spraying dust removal technology and low-resistance fan technology. The polluted air enters the fan through the suction inlet, and after being mixed with the atomized water droplets generated by the high-speed rotating impeller, dust particles are separated. The purified air is discharged into the atmosphere, while the separated mud and water flow out from the bottom and enter a sedimentation tank or are directly discharged, thus achieving the purpose of purification.

3. Product Features

—High dust removal efficiency —— Dust removal efficiency ≥ 97%, realizing clean discharge and truly improving the frontline working environment.

—Nozzle clogging prevention —— Special water spray technology and optimized design are adopted. The nozzle structure is reasonable, and during operation the impeller and liquid collisions generate self-cleaning water mist.

—Low water consumption —— The gas-to-liquid ratio of this product is only < 0.2 L/m³. When the air volume is 500 m³/min, the water consumption is only 0.9 m³/h, and the water can be recycled.

—Low maintenance —— The main dust removal components adopt aerodynamics and special dust removal technology optimized design. The equipment has no easily worn and difficult-to-clean spare parts in use.

—Low operating noise —— The inner structure of the equipment adopts streamlined design, and the radiation noise is only 78 ~ 84 dB(A).

4. Technical Parameters

Model	Air Volume (m³/min)	Pressure (Pa)	Dust Removal Efficiency (%)	Water Supply Pressure (MPa)	Noise (dB(A))	Liquid-Gas Ratio (L/m³)	Speed (r/min)	Motor Power (kW)	Weight (kg)
KCS-115D	115	900	≥97	0-0.2	≤70	≤0.2	1440	4	350
KCS-150D	150	900	≥97	0-0.2	≤70	≤0.1	1440	5.5	460
KCS-180D	180	900	≥97	0-0.2	≤70	≤0.1	1440	7.5	460
KCS-260D	260	1100	≥97	0-0.2	≤75	≤0.1	1460	11	650
KCS-300D	300	1100	≥97	0-0.2	≤75	≤0.1	1460	15	650
KCS-350D	350	1300	≥97	0-0.2	≤75	≤0.1	1470	18.5	800
KCS-400D	400	1300	≥97	0-0.2	≤75	≤0.1	1470	22	1200
KCS-440D	440	1300	≥97	0-0.2	≤80	≤0.1	1470	22	1200

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Technical Parameters (Continued)

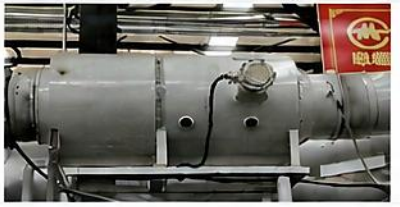
Model	Air Volume (m³/min)	Pressure (Pa)	Dust Removal Efficiency (%)	Water Supply Pressure (MPa)	Noise (dB(A))	Liquid-Gas Ratio (L/m³)	Speed (r/min)	Motor Power (kW)	Weight (kg)
KCS-500D	500	1500	≥97	0-0.2	≤80	≤0.1	1470	30	1350
KCS-550D	550	1500	≥97	0-0.2	≤80	≤0.1	1470	37	1350
KCS-650D	650	1600	≥97	0-0.2	≤80	≤0.1	1470	45	1650
KCS-750D	750	1600	≥97	0-0.2	≤80	≤0.1	1470	55	1750
KCS-850D	850	1600	≥97	0-0.2	≤80	≤0.1	1470	55	1850
KCS-950D	950	1600	≥97	0-0.2	≤80	≤0.1	1470	75	2100

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

5. Application Cases













FKD Series Mining Axial Flow Fan with Inlet and Outlet Silencers

1. Product Introduction

The FKD series mining axial flow fan with inlet and outlet silencers (hereinafter referred to as the axial flow fan) is a new type of local ventilation fan independently developed by Zibo Borui Fan Co., Ltd. It is developed based on mining axial flow fans and specially designed for tunneling ventilation. It is suitable for shaft tunneling, tunnel excavation, underground projects driven by shield, TBM and electric drilling rigs, as well as non-pressurized branch tunnels, other local ventilation and auxiliary ventilation.



The aerodynamic performance of the fan meets the requirements of local tunnel ventilation. After connection with duct system and silencers, it features small system resistance and long air delivery distance, stable operation in small-flow areas, and wide application range with high efficiency. Due to its compact structure, it is convenient for transportation, installation and use. The fan adopts explosion-proof motor, with non-sparking impeller, and is designed for underground use, and the conveyed medium shall not contain flammable or explosive gases (except methane).

2. Model Designation and Its Meaning

F K D № □ / 2×□

- 2×□ — Motor Power kW
- □ — Model No. (impeller diameter in deciemeters)
- D — Counter-rotating type
- K — For mining application
- F — Axial flow fan

3. Technical Parameters

Model	Motor Power (kW)	Air Volume (m^3/s)	Total Pressure (Pa)	Impeller Diameter (mm)	Minimum Fan Diameter (mm)
FKDN9.5.0/2×5.5	2×5.5	4.2 ~ 2.5	450 ~ 3300	500	500
FKDN9.5.0/2×7.5	2×7.5	4.8 ~ 3.0	550 ~ 3900	500	500
FKDN9.5.6/2×11	2×11	6.5 ~ 4.0	600 ~ 4700	560	600
FKDN9.5.6/2×15	2×15	6.8 ~ 4.5	740 ~ 5300	560	600
FKDN9.6.3/2×18.5	2×18.5	8.8 ~ 5.5	470 ~ 5600	630	700

ZIBO BORUI FAN CO., LTD.

FK Series Mining Axial Flow Fan with Inlet and Outlet Silencers

1. Product Introduction



The FK series axial flow fan with inlet and outlet silencers (hereinafter referred to as the axial flow fan) is a new type of local ventilation fan independently developed by Zibo Borui Fan Co., Ltd., based on mining axial flow fan technology. It is suitable for shaft tunneling, shield tunneling, electric drilling rig tunneling, low noise, large air volume and high pressure. It is applicable to shaft tunneling, shield and TBM tunneling, ventilation for electric drilling rigs, non-pressurized branch tunnels, and other local and auxiliary ventilation.

The aerodynamic performance of the fan meets the requirements of local tunnel ventilation. After connection with duct system and silencers, it features small system resistance and long air delivery distance, stable operation in small-flow areas, and wide application range with high efficiency. Due to its compact structure, it is convenient for transportation, installation and use. The fan adopts explosion-proof motor, with non-sparking impeller. It is designed for underground use, and the conveyed medium shall not contain flammable or explosive gases (except methane).

2. Technical Parameters

Model	Motor Power (kW)	Air Volume (m^3/s)	Total Pressure (Pa)	Impeller Diameter (mm)	Minimum Fan Diameter (mm)	Recommended Delivery Distance (m)
FKN9.4.0/4	4	2.1 ~ 3.4	1275 ~ 980	400	400	150
FKN9.4.0/5.5	5.5	2.2 ~ 3.5	1650 ~ 1020	400	400	200
FKN9.4.5/7.5	7.5	2.6 ~ 4.2	2260 ~ 1180	450	450	250
FKN9.4.5/11	11	2.2 ~ 3.5	2930 ~ 1810	450	450	200
FKN9.4.5/11	11	2.8 ~ 4.3	3240 ~ 1470	450	450	400
FKN9.4.5/11	11	3.0 ~ 5.0	2093 ~ 1295	450	450	300
FKN9.4.5/11	11	3.1 ~ 5.2	2280 ~ 1280	450	450	300

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

3. Comparison of Old and New Model Designation Methods for FK Series Fans

Model Designation Method	FKN9.4.0/4	FKN9.4.0/5.5	FKN9.4.5/7.5	FKN9.4.5/11
Original Model Designation	JK56-1N9.4.0/4	JK58-1N9.4.0/5.5	JK67-1N9.4.5/7.5	JK58-2N9.4.0/11 JK58-1N9.4.5/11 JK55-2N9.4.5/11 JK67-2N9.4.5/11

FKD Series Mining Axial Flow Fan with Inlet and Outlet Silencers

Technical Parameters

Model	Motor Power (kW)	Air Volume (m^3/s)	Total Pressure (Pa)	Impeller Diameter (mm)	Minimum Fan Diameter (mm)
FKDN№5.0/2×5.5	2×5.5	4.2 ~ 2.5	450 ~ 3300	500	500
FKDN№6.3/2×22	2×22	9.3 ~ 5.8	600 ~ 5900	630	700
FKDN№7.0/2×15	2×15	11.9 ~ 9.9	834 ~ 1915	700	700
FKDN№7.1/2×30	2×30	11.3 ~ 8.0	590 ~ 6200	700	700
FKDN№7.1/2×37	2×37	12.2 ~ 8.3	660 ~ 7000	700	700
FKDN№7.5/2×22	2×22	12.2 ~ 14.6	2198 ~ 957	750	800
FKDN№8/2×30	2×30	14.8 ~ 17.8	2501 ~ 1089	800	800
FKDN№8/2×45	2×45	12.8 ~ 6.6	920 ~ 9000	800	800
FKDN№8/2×55	2×55	13.8 ~ 7.0	1000 ~ 10000	800	800

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

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FBD Series Explosion-Proof Mining Axial Flow Fan with Inlet and Outlet Silencers

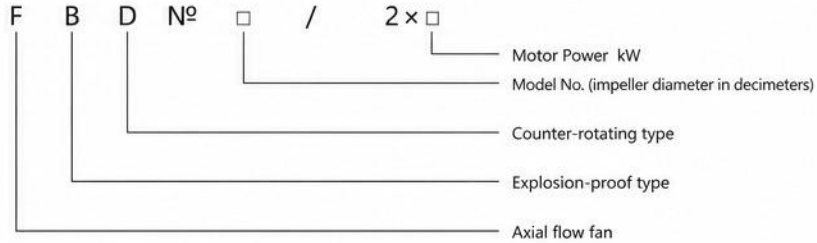
1. Product Introduction



The FBD series explosion-proof mining axial flow fan with inlet and outlet silencers (hereinafter referred to as the axial flow fan) features reliable performance, convenient maintenance, large air volume, low noise, high efficiency, long service life, advanced blade design, stable operation, and high conveying capcaity. The avordynamic performance of the fan meets the requirements of local tunnel ventilation. After connection with duct system and silencers, it features small system resistance and long air delivery distance, stable operation in small-flow areas, and wide application range with high efficiency.

The fan is mainly used for forced ventilation in coal mines with methane and other explosive gas environments, suitable for main ventilation, local ventilation and auxiliary ventilation in underground mines.

2. Model Designation and Its Meaning



3. Operating Conditions

The axial flow fan shall work normally under the following conditions:

a) Ambient temperature: -15 °C ~ +40 °C;
b) Relative humidity: not greater than 95%RH (at +25 °C);
c) Altitude: not more than 1000 m;
d) Installed in the inlet and outlet passages of mining tunnels with risk of methane and other explosive gases, and used together with positive pressure fans;
e) In environments without corrosive gases and steam (and without damaging metals and insulation materials);
f) In places without dripping water or other liquid ingress;
g) In places without significant vibration or impact.

If the altitude exceeds 1000 m or the maximum ambient temperature is higher than +40 °C, it shall be supplied according to the provisions of GB/T 755 after consultation between the parties.

FBD Series Explosion-Proof Mining Axial Flow Fan with Inlet and Outlet Silencers

4. Technical Parameters

Model	Motor Power (kW)	Rotational Speed (r/min)	Air Volume (m^3/min)	Total Pressure (Pa)	Applicable Minimum Fan Diameter (mm)
FBDN5.0/2×5.5	2×5.5	2900	250 ~ 150	450 ~ 3300	500
FBDN5.0/2×7.5	2×7.5	2900	290 ~ 180	550 ~ 3900	500
FBDN5.6/2×11	2×11	2930	390 ~ 240	600 ~ 4700	600
FBDN5.6/2×15	2×15	2930	410 ~ 270	740 ~ 5300	600
FBDN6.0/2×11	2×11	2930	420 ~ 280	700 ~ 4500	600
FBDN6.0/2×15	2×15	2930	460 ~ 300	790 ~ 5400	600
FBDN6.3/2×18.5	2×18.5	2930	530 ~ 330	470 ~ 5600	700
FBDN6.3/2×22	2×22	2940	560 ~ 350	600 ~ 5900	700
FBDN6.7/2×30	2×30	2950	630 ~ 430	630 ~ 6600	700
FBDN6.7/2×37	2×37	2950	670 ~ 460	720 ~ 7500	700
FBDN7.1/2×30	2×30	2950	680 ~ 480	590 ~ 6200	700
FBDN7.1/2×37	2×37	2950	730 ~ 500	660 ~ 7000	700
FBDN8.0/2×45	2×45	2970	770 ~ 400	920 ~ 9000	800
FBDN8.0/2×55	2×55	2970	830 ~ 420	1000 ~ 10000	800

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

FBCD Series Explosion-Proof Extracting Axial Flow Fan for Mining with Inlet and Outlet Silencers

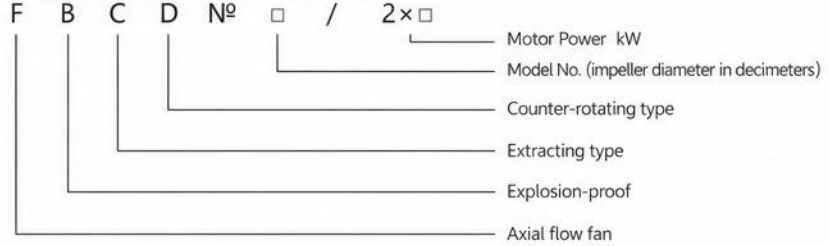
1. Product Introduction

The FBCD series explosion-proof extracting axial flow fan for mining (hereinafter referred to as the axial flow fan) has the characteristics of compact structure, low noise, high air volume, high efficiency and reliable performance. It is designed to meet the requirements of ventilation or dust removal in the roadway of coal mines. After matching with upstream and downstream duct systems, it features small pressure loss, long air delivery distance and stable operation in low-flow areas, with a wide application range. The fan can be flexibly configured according to the length of the roadway and different ventilation requirements, achieving energy saving and consumption reduction, and is an ideal equipment for long-distance ventilation in mining roadways.



The axial flow fan is mainly used for forced extraction of gas in gas-rich coal mines. It can extract methane and other explosive gases from the lower part of the well, and can also be used in conjunction with dust removal equipment to remove dust from the working face. It is an ideal equipment for extracting methane and dust from mining roadways.

2. Model Designation and Its Meaning



3. Operating Conditions

The axial flow fan shall work normally under the following conditions:

a) Ambient temperature: -15°C ~ +40°C;
b) Relative humidity: not greater than 95%RH (at +25°C);
c) Altitude: not more than 1000 m;
d) Installed in the return air roadway of coal mines with the risk of methane and other explosive gases;
e) In environments without corrosive gases and steam (and without damaging metals and insulation materials);
f) In places without dripping water or other liquid ingress;
g) In places without significant vibration or impact.

If the altitude exceeds 1000 m or the maximum ambient temperature is higher than +40°C, it shall be supplied according to the provisions of GB/T 755 after consultation between the parties.

FBCD Series Explosion-Proof Extracting Axial Flow Fan for Mining with Inlet and Outlet Silencers

4. Technical Parameters

Model	Motor Power (kW)	Rotational Speed (r/min)	Air Volume (m³/min)	Static Pressure (Pa)	Applicable Minimum Fan Diameter (mm)
FBCDN№5.0/2×5.5	2×5.5	2900	230 ~ 140	390 ~ 2800	500
FBCDN№5.0/2×7.5	2×7.5	2900	260 ~ 160	480 ~ 3300	500
FBCDN№5.6/2×11	2×11	2930	350 ~ 220	520 ~ 4100	600
FBCDN№5.6/2×15	2×15	2930	370 ~ 240	650 ~ 4600	600
FBCDN№6.0/2×11	2×11	2930	380 ~ 250	600 ~ 3900	600
FBCDN№6.0/2×15	2×15	2930	420 ~ 270	700 ~ 4700	600
FBCDN№6.3/2×18.5	2×18.5	2930	480 ~ 300	470 ~ 4900	700
FBCDN№6.3/2×22	2×22	2940	510 ~ 320	530 ~ 5100	700
FBCDN№6.7/2×30	2×30	2950	570 ~ 390	550 ~ 5800	700
FBCDN№6.7/2×37	2×37	2950	610 ~ 420	630 ~ 6600	700
FBCDN№7.1/2×30	2×30	2950	620 ~ 430	510 ~ 5400	700
FBCDN№7.1/2×37	2×37	2950	660 ~ 450	580 ~ 6100	700
FBCDN№8.0/2×45	2×45	2970	700 ~ 330	820 ~ 8000	800
FBCDN№8.0/2×55	2×55	2970	750 ~ 350	950 ~ 9100	800

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

FQ Series Pneumatic Press-in Axial Flow Fan for Mining with Inlet and Outlet Silencers

1. Product Introduction

The FQ series pneumatic press-in axial flow fan for mining (hereinafter referred to as the axial flow fan) is a special mine fan driven by compressed air. It features simple structure, convenient transportation and installation, safe operation, low noise, and is suitable for blowing ventilation in underground coal mines without power supply, especially in corners and harsh environments where electrical equipment cannot be used.



2. Model Designation and Its Meaning

F Q № X

- X — Model No. (impeller diameter in decimeters)
- № — Pneumatic drive
- Q — Axial flow fan
- F

3. Operating Conditions

The axial flow fan shall work normally under the following conditions:

a) Ambient temperature: +4°C ~ +40°C;
b) Relative humidity: not greater than 95%RH (at +25°C);
c) Altitude: not more than 2000 m;
d) Places without severe vibration or corrosive gases;
e) Installed in underground coal mines with the risk of gas explosion, as required for the working site.

4. Technical Parameters

Model	Air Volume (m³/min)	Pressure (Pa)	Supply Pressure (MPa)	Standard Air Consumption (m³/min)	Rotational Speed (r/min)	Impeller Diameter (mm)	Length (mm)
FQN№2.5	20	38	0.3 ~ 0.5	0.9	1350	Φ250	260
FQN№3.55	28	30	0.3 ~ 0.5	1.7	1350	Φ355	350
FQN№5.0	180	280	0.3 ~ 0.5	6	1350	Φ500	550
FQN№5.6	200	350	0.3 ~ 0.5	6	1300	Φ560	550
FQN№6.3	290	400	0.3 ~ 0.5	6	1300	Φ630	650
FQN№6.7	340	500	0.3 ~ 0.5	7	1300	Φ670	700
FQN№7.5	500	650	0.3 ~ 0.5	7	1300	Φ750	850

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

FKZ Series Mining Axial Flow Fan

1. Product Introduction



The FKZ series mining axial flow fan is developed by Zibo Borui Fan Co., Ltd. on the basis of the K series energy-saving fan, with technical improvements and optimized structure, which improves efficiency and the design of large models. This series features higher efficiency, lower noise, a wider application range, and better adaptability to mine ventilation networks, therefore the energy-saving effect is significant.

This series is specially designed according to the needs of various metal mines such as copper, non-ferrous metals, gold, chemical industry, building materials and nuclear industry. It can be installed on the ground or underground, suitable for multi-fan combined operation, and is an ideal main fan for multi-level and multi-station mine ventilation systems. It is also suitable for ventilation and air exchange in large workshops, tunnels, and civil engineering projects such as air defense.

2. Model Designation and Its Meaning

F K Z № □ / □

- Motor Power kW
- Model No. (impeller diameter in decimeters)
- Axial flow fan for mine ventilation
- For mining use
- Axial flow fan

3. Operating Conditions

The axial flow fan shall work normally under the following conditions:

a) Ambient temperature: -15°C ~ +40°C;
b) Relative humidity: not greater than 95%RH (at +25°C);
c) Altitude: not more than 2000 m;
d) Installed in mine shafts, and the conveyed medium shall not contain methane explosive gases.

4. Product Features

1. Adopts advanced spatially twisted airfoil blades and three-dimensional flow design, resulting in high aerodynamic efficiency, which is the premise and basis for energy saving.
2. Complete specifications, capable of matching various resistances and air volume requirements of mine ventilation networks, maintaining high efficiency, with significant energy-saving effect.
3. Equipped with a stable airfoil hub without dynamic balance weight, no risk of blade shedding, ensuring high operational safety, especially suitable for multi-fan combined operation.
4. The structure is compact and leak-proof. The fan casing is made of steel plate, with an overall welded structure. The blades are made of high-strength aluminum alloy, with high strength and good resistance to explosive shock waves. It can be installed on the ground or underground, and is especially suitable as the main fan for multi-level and multi-station mine ventilation systems.
5. It can directly reverse rotation, with a reverse rotation rate greater than 60, without the need for a reverse air duct.
6. The blade installation angle can be adjusted to adapt to changes in mine production, allowing flexible operation.

5. Technical Parameters

Model	Motor Power (kW)	Rotational Speed (r/min)	Air Volume (m^3/s)	Static Pressure (Pa)
FKZ(K40)-4-№8	5.5	1450	4.4 ~ 9.5	108 ~ 497
FKZ(K40)-4-№9	11	1450	6.2 ~ 13.5	136 ~ 629
FKZ(K40)-4-№10	15	1450	8.5 ~ 18.6	168 ~ 776
FKZ(K40)-4-№11	30	1450	11.3 ~ 24.7	203 ~ 939
FKZ(K40)-4-№12	37	1450	14.7 ~ 32.1	242 ~ 1118
FKZ(K40)-4-№13	55	1450	18.7 ~ 40.8	284 ~ 1312
FKZ(K40)-4-№14	90	1450	23.4 ~ 50.9	329 ~ 1521
FKZ(K40)-4-№15	110	1450	28.7 ~ 62.6	378 ~ 1746
FKZ(K40)-6-№7	1.1	960	2.0 ~ 4.3	38 ~ 174
FKZ(K40)-6-№8	2.2	960	3.0 ~ 6.4	49 ~ 227
FKZ(K40)-6-№9	3	960	4.2 ~ 9.1	62 ~ 287
FKZ(K40)-6-№10	5.5	960	5.8 ~ 12.5	77 ~ 355
FKZ(K40)-6-№11	7.5	960	7.7 ~ 16.7	93 ~ 429
FKZ(K40)-6-№12	15	960	9.9 ~ 21.7	111 ~ 510
FKZ(K40)-6-№13	18.5	960	12.6 ~ 27.5	130 ~ 599
FKZ(K40)-6-№14	30	960	15.8 ~ 34.4	150 ~ 695
FKZ(K40)-6-№15	37	960	19.4 ~ 42.3	173 ~ 798
FKZ(K40)-6-№16	55	960	23.6 ~ 51.4	197 ~ 908
FKZ(K40)-6-№17	75	960	28.3 ~ 61.6	222 ~ 908
FKZ(K40)-6-№18	90	960	33.6 ~ 73.1	249 ~ 1149
FKZ(K40)-6-№19	110	960	39.5 ~ 86.0	277 ~ 1280
FKZ(K40)-6-№20	160	960	46.0 ~ 100.3	307 ~ 1418
FKZ(K40)-6-№21	200	960	53.3 ~ 116.1	339 ~ 1563
FKZ(K40)-6-№22	250	960	61.3 ~ 113.4	372 ~ 1716
FKZ(K40)-8-№11	4	740	5.7 ~ 12.4	52 ~ 238
FKZ(K40)-8-№12	5.5	740	7.4 ~ 16.1	61 ~ 283
FKZ(K40)-8-№13	7.5	740	9.4 ~ 20.5	72 ~ 332
FKZ(K40)-8-№14	11	740	11.8 ~ 25.6	84 ~ 386
FKZ(K40)-8-№15	15	740	14.5 ~ 31.5	96 ~ 443
FKZ(K40)-8-№16	22	740	17.6 ~ 38.3	109 ~ 504
FKZ(K40)-8-№17	30	740	21.1 ~ 45.9	123 ~ 568
FKZ(K40)-8-№18	37	740	25.0 ~ 54.5	138 ~ 637

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

Model	Motor Power kW	Rotational Speed r/min	Air Volume m^3/s	Static Pressure Pa
FKZ(K40)-8-№19	55	740	29.4 ~ 64.1	154 ~ 710
FKZ(K40)-8-№20	75	740	34.3 ~ 74.7	170 ~ 787
FKZ(K40)-8-№21	90	740	39.7 ~ 86.5	188 ~ 867
FKZ(K40)-8-№22	110	740	45.7 ~ 99.4	206 ~ 952
FKZ(K40)-8-№23	132	740	52.2 ~ 113.6	225 ~ 1041
FKZ(K40)-8-№24	160	740	59.3 ~ 129.1	245 ~ 1133
FKZ(K40)-8-№25	200	740	67.0 ~ 146	266 ~ 1229
FKZ(K40)-8-№26	250	740	75.4 ~ 164.2	288 ~ 1330
FKZ(K45)-4-№8	7.5	1450	6.6 ~ 12.5	357 ~ 685
FKZ(K45)-4-№9	15	1450	9.5 ~ 17.8	452 ~ 867
FKZ(K45)-4-№10	30	1450	13.0 ~ 24.0	558 ~ 1071
FKZ(K45)-4-№11	45	1450	17.3 ~ 32.6	675 ~ 1295
FKZ(K45)-4-№12	75	1450	22.5 ~ 42.3	804 ~ 1542
FKZ(K45)-4-№13	90	1450	28.6 ~ 53.8	94.3 ~ 1810
FKZ(K45)-4-№14	132	1450	35.7 ~ 67.2	1094 ~ 2099
FKZ(K45)-4-№15	200	1450	43.9 ~ 82.6	1256 ~ 2409
FKZ(K45)-6-№7	1.5	960	3.0 ~ 5.7	125 ~ 240
FKZ(K45)-6-№8	3	960	4.5 ~ 8.4	163 ~ 313
FKZ(K45)-6-№9	5.5	960	6.4 ~ 12.0	207 ~ 396
FKZ(K45)-6-№10	7.5	960	8.7 ~ 16.5	255 ~ 489
FKZ(K45)-6-№11	15	960	11.6 ~ 22.0	309 ~ 592
FKZ(K45)-6-№12	18.5	960	15.1 ~ 28.5	367 ~ 704
FKZ(K45)-6-№13	30	960	19.2 ~ 36.3	431 ~ 827
FKZ(K45)-6-№14	45	960	23.9 ~ 45.3	500 ~ 959
FKZ(K45)-6-№15	55	960	29.4 ~ 55.7	574 ~ 1101
FKZ(K45)-6-№16	90	960	35.7 ~ 67.6	653 ~ 1252

Model	Motor Power kW	Retational Speed r/min	Air Volume m^3/s	Static Pressure Pa
FKZ(K45)-6-№17	110	960	42.8 ~ 81.1	737 ~ 1414
FKZ(K45)-6-№18	160	960	50.9 ~ 96.2	826 ~ 1585
FKZ(K45)-6-№19	200	960	59.8 ~ 113.2	920 ~ 1766
FKZ(K45)-6-№20	250	960	69.8 ~ 132.0	1019 ~ 1956
FKZ(K40)-8-№11	4	740	5.7 ~ 12.4	52 ~ 238
FKZ(K40)-8-№12	5.5	740	7.4 ~ 16.1	61 ~ 283
FKZ(K40)-8-№13	7.5	740	9.4 ~ 20.5	72 ~ 332
FKZ(K40)-8-№14	11	740	11.8 ~ 25.6	84 ~ 386
FKZ(K40)-8-№15	15	740	14.5 ~ 31.5	96 ~ 443
FKZ(K40)-8-№16	22	740	17.6 ~ 38.3	109 ~ 504
FKZ(K40)-8-№17	30	740	21.1 ~ 45.9	123 ~ 568
FKZ(K40)-8-№18	37	740	25.0 ~ 54.5	138 ~ 637
FKZ(K40)-8-№19	55	740	29.4 ~ 64.1	154 ~ 710
FKZ(K40)-8-№20	75	740	34.3 ~ 74.7	170 ~ 787
FKZ(K40)-8-№21	90	740	39.7 ~ 86.5	188 ~ 867
FKZ(K40)-8-№22	110	740	45.7 ~ 99.4	206 ~ 952
FKZ(K40)-8-№23	132	740	52.2 ~ 113.6	225 ~ 1041
FKZ(K40)-8-№24	160	740	59.3 ~ 129.1	245 ~ 1133
FKZ(K40)-8-№25	200	740	67.0 ~ 146	266 ~ 1229
FKZ(K40)-8-№26	250	740	75.4 ~ 164.2	288 ~ 1330

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice.
If you have special requirements, please consult our company for technical confirmation.

FKCDZ Series Mine Shaft Axial Flow Fan

1. Product Introduction

The FKCDZ series mine shaft axial flow fan is developed by Zibo Borui Fan Co., Ltd. based on the DK series mine energy-saving fan, through technical improvements and an optimized structure, which greatly improves efficiency and makes the large fan successfully developed.

This series of fans features a higher rotational speed, lower noise, a wider performance range, and better matching with mine ventilation networks, making the energy-saving effect more significant.



This series is specially designed according to the requirements of various metal mines such as copper, non-ferrous metals, gold, chemical industry, building materials, and nuclear industry. It can be installed on the ground or underground, suitable for multi-fan combined operation, and is an ideal main fan for multi-level and multi-station mine ventilation systems. It is also suitable for ventilation and air exchange in large workshops, tunnels, and civil engineering projects such as air defense.

2. Model Designation and Its Meaning

F K C D Z № □ / □

- □ (after /): Motor power kW
- □ (after №): Model No. (impeller diameter in decimeters)
- Z: Shaft axial flow fan
- D: Counter-rotating type
- C: Extraction type
- K: For mining use
- F: Axial flow fan

3. Operating Conditions

The axial flow fan shall work normally under the following conditions:

a) Ambient temperature: -15°C ~ +40°C;
b) Relative humidity: not greater than 95%RH (at +25°C);
c) Altitude: not more than 2000 m;
d) Installed in mine shafts, and the conveyed medium shall not contain methane explosive gases.

4. Technical Parameters

Model	Motor Power kW	Rotational Speed r/min	Air Volume m^3/s	Static Pressure Pa
FKCDZ(40)-6-№15	2×37	960	18.2 ~ 43.6	382 ~ 1690
FKCDZ(40)-6-№16	2×55	960	22.1 ~ 52.9	435 ~ 1923
FKCDZ(40)-6-№17	2×75	960	26.5 ~ 63.5	491 ~ 2171
FKCDZ(40)-6-№18	2×90	960	31.5 ~ 75.4	551 ~ 2433
FKCDZ(40)-6-№19	2×132	960	37.0 ~ 88.6	614 ~ 2711
FKCDZ(40)-6-№20	2×160	960	43.2 ~ 103.4	680 ~ 3004
FKCDZ(40)-6-№21	2×200	960	50.0 ~ 119.7	750 ~ 3312
FKCDZ(40)-8-№18	2×37	740	23.5 ~ 56.1	306 ~ 1350
FKCDZ(40)-8-№19	2×55	740	27.6 ~ 66.0	341 ~ 1504
FKCDZ(40)-8-№20	2×75	740	32.2 ~ 77.0	377 ~ 3334
FKCDZ(40)-8-№21	2×90	740	37.3 ~ 89.1	416 ~ 1838
FKCDZ(40)-8-№22	2×110	740	42.8 ~ 102.5	457 ~ 2017
FKCDZ(40)-8-№23	2×132	740	48.9 ~ 117.1	499 ~ 2204
FKCDZ(40)-8-№24	2×160	740	55.6 ~ 133.0	543 ~ 2400
FKCDZ(40)-8-№25	2×200	740	62.9 ~ 150.4	589 ~ 2605
FKCDZ(45)-6-№12	2×22	960	10.7 ~ 27.6	698 ~ 1374
FKCDZ(45)-6-№13	2×37	960	13.6 ~ 35.0	819 ~ 1613
FKCDZ(45)-6-№14	2×55	960	17.0 ~ 43.8	950 ~ 1871
FKCDZ(45)-6-№15	2×75	960	20.9 ~ 53.8	1091 ~ 2148
FKCDZ(45)-6-№16	2×90	960	25.4 ~ 65.3	1241 ~ 2444
FKCDZ(45)-6-№17	2×132	960	30.4 ~ 78.3	1400 ~ 2759
FKCDZ(45)-6-№18	2×160	960	36.1 ~ 93.5	1570 ~ 3093
FKCDZ(45)-6-№19	2×200	960	42.5 ~ 109.4	1750 ~ 3446
FKCDZ(45)-6-№20	2×250	960	49.5 ~ 127.6	1939 ~ 3819
FKCDZ(45)-8-№16	2×37	740	18.9 ~ 48.7	688 ~ 1356
FKCDZ(45)-8-№17	2×55	740	22.7 ~ 58.4	777 ~ 1531
FKCDZ(45)-8-№18	2×75	740	26.9 ~ 69.3	871 ~ 1716
FKCDZ(45)-8-№19	2×90	740	31.6 ~ 81.5	971 ~ 1912
FKCDZ(45)-8-№20	2×110	740	36.9 ~ 95.1	1076 ~ 2119
FKCDZ(45)-8-№21	2×160	740	42.7 ~ 110.1	1186 ~ 2336
FKCDZ(45)-8-№22	2×200	740	49.1 ~ 126.6	1302 ~ 2563
FKCDZ(62A)-4-№10	2×55	1450	5.5 ~ 18.7	1017 ~ 3286
FKCDZ(62A)-4-№11	2×75	1450	7.3 ~ 24.8	1230 ~ 3976
FKCDZ(62A)-4-№12	2×90	1450	9.5 ~ 32.3	1464 ~ 4731

Model	Motor Power kW	Rotational Speed r/min	Air Volume m^3/s	Static Pressure Pa
FKCDZ(62A)-4-№13	2×110	1450	12.1 ~ 41.0	1718 ~ 5553
FKCDZ(62A)-4-№14	2×160	1450	15.1 ~ 51.2	1993 ~ 6440
FKCDZ(62A)-6-№14	2×55	960	10.1 ~ 31.7	918 ~ 2888
FKCDZ(62A)-6-№15	2×75	960	12.4 ~ 39.0	1054 ~ 3315
FKCDZ(62A)-6-№16	2×110	960	15.0 ~ 47.3	1199 ~ 3772
FKCDZ(62A)-6-№17	2×132	960	18.0 ~ 56.8	1353 ~ 4258
FKCDZ(62A)-6-№18	2×185	960	21.4 ~ 67.4	1517 ~ 4774
FKCDZ(62A)-6-№19	2×220	960	25.1 ~ 79.3	1690 ~ 5319
FKCDZ(62A)-6-№20	2×250	960	29.3 ~ 92.5	1873 ~ 5893
FKCDZ(62A)-6-№21	2×355	960	33.9 ~ 107.0	2065 ~ 6497
FKCDZ(62A)-8-№17	2×55	740	13.6 ~ 42.9	772 ~ 2428
FKCDZ(62A)-8-№18	2×75	740	16.1 ~ 50.9	865 ~ 2722
FKCDZ(62A)-8-№19	2×110	740	19.0 ~ 60.0	964 ~ 3033
FKCDZ(62A)-8-№20	2×132	740	22.1 ~ 69.8	1068 ~ 3360
FKCDZ(62A)-8-№21	2×160	740	25.6 ~ 80.8	1177 ~ 3705
FKCDZ(62A)-8-№22	2×200	740	29.5 ~ 92.9	1292 ~ 4066
FKCDZ(62A)-8-№23	2×250	740	33.7 ~ 106.2	1412 ~ 4444
FKCDZ(62A)-8-№25	2×315	740	38.2 ~ 120.7	1538 ~ 4839
FKCDZ(62A)-8-№26	2×315	740	43.2 ~ 136.4	1669 ~ 5250
FKCDZ(62A)-8-№27	2×450	740	48.6 ~ 153.4	1805 ~ 5679
FKCDZ(62A)-8-№28	2×450	740	54.4 ~ 171.8	1946 ~ 6124
FKCDZ(62A)-8-№28	2×710	740	60.7 ~ 191.6	2093 ~ 6586
FKCDZ(62A)-10-№20	2×75	590	17.6 ~ 55.7	679 ~ 2136
FKCDZ(62A)-10-№21	2×90	590	20.4 ~ 64.4	748 ~ 2355
FKCDZ(62A)-10-№22	2×110	590	23.5 ~ 74.1	821 ~ 2585
FKCDZ(62A)-10-№23	2×132	590	26.8 ~ 84.7	898 ~ 2825
FKCDZ(62A)-10-№24	2×160	590	30.5 ~ 96.2	978 ~ 3076
FKCDZ(62A)-10-№25	2×185	590	34.5 ~ 108.7	1061 ~ 3338
FKCDZ(62A)-10-№26	2×250	590	38.8 ~ 122.3	1147 ~ 3610
FKCDZ(62A)-10-№27	2×250	590	43.4 ~ 137.0	1237 ~ 3893
FKCDZ(62A)-10-№28	2×315	590	48.4 ~ 152.8	1331 ~ 4187
FKCDZ(62A)-10-№29	2×450	590	53.8 ~ 169.7	1527 ~ 4806
FKCDZ(62A)-10-№30	2×560	590	72.3 ~ 228.0	1738 ~ 5468
FKCDZ(62A)-10-№34	2×800	590	86.7 ~ 273.4	1962 ~ 6173
FKCDZ(62A)-10-№36	2×1000	590	102.9 ~ 324.7	2199 ~ 6921

Model	Motor Power kW	Retational Speed r/min	Air Volume m^3/s	Static Pressure Pa
FKCDZ(62A)-12-№24	2×110	490	25.3 ~ 79.9	674 ~ 2122
FKCDZ(62A)-12-№25	2×110	490	28.6 ~ 90.3	732 ~ 2302
FKCDZ(62A)-12-№26	2×132	490	32.2 ~ 101.6	791 ~ 2490
FKCDZ(62A)-12-№27	2×160	490	36.1 ~ 113.8	853 ~ 2685
FKCDZ(62A)-12-№28	2×200	490	40.2 ~ 126.9	918 ~ 2888
FKCDZ(62A)-12-№29	2×200	490	44.7 ~ 140.9	985 ~ 3098
FKCDZ(62A)-12-№30	2×250	490	49.5 ~ 156.0	1054 ~ 3315
FKCDZ(62A)-12-№32	2×355	490	60.0 ~ 189.4	1199 ~ 3772
FKCDZ(62A)-12-№34	2×450	490	72.0 ~ 227.1	1353 ~ 4258
FKCDZ(62A)-12-№36	2×560	490	85.5 ~ 269.6	1517 ~ 4774
FKCDZ(62A)-12-№38	2×800	490	100.5 ~ 317.1	1690 ~ 5319
FKCDZ(62A)-12-№40	2×1000	490	171.2 ~ 370.0	1873 ~ 5893
FKCDZ(62B)-4-№10	2×45	1450	6.4 ~ 17.1	800 ~ 2275
FKCDZ(62B)-4-№11	2×55	1450	8.5 ~ 22.7	968 ~ 2753
FKCDZ(62B)-4-№12	2×75	1450	11.0 ~ 29.5	1151 ~ 3276
FKCDZ(62B)-4-№13	2×90	1450	13.9 ~ 37.5	1351 ~ 3845
FKCDZ(62B)-4-№14	2×160	1450	17.4 ~ 46.9	1567 ~ 4459
FKCDZ(62B)-6-№15	2×55	960	14.5 ~ 36.6	805 ~ 2335
FKCDZ(62B)-6-№16	2×75	960	17.6 ~ 44.4	916 ~ 2656
FKCDZ(62B)-6-№17	2×90	960	21.1 ~ 53.3	1035 ~ 2999
FKCDZ(62B)-6-№18	2×132	960	25.0 ~ 63.3	1160 ~ 3362
FKCDZ(62B)-6-№19	2×160	960	29.4 ~ 74.4	1292 ~ 3746
FKCDZ(62B)-6-№20	2×220	960	34.3 ~ 86.8	1432 ~ 4150
FKCDZ(62B)-6-№21	2×280	960	39.7 ~ 100.5	1579 ~ 4576
FKCDZ(62B)-8-№18	2×55	740	18.9 ~ 47.8	661 ~ 1917
FKCDZ(62B)-8-№19	2×75	740	22.2 ~ 56.2	737 ~ 2136
FKCDZ(62B)-8-№20	2×90	740	25.9 ~ 65.5	816 ~ 2367
FKCDZ(62B)-8-№21	2×132	740	30.0 ~ 75.9	900 ~ 2609
FKCDZ(62B)-8-№22	2×160	740	34.5 ~ 87.2	988 ~ 2863
FKCDZ(62B)-8-№23	2×185	740	39.4 ~ 99.7	1080 ~ 3130
FKCDZ(62B)-8-№24	2×220	740	44.8 ~ 113.2	1176 ~ 3408
FKCDZ(62B)-8-№25	2×280	740	50.6 ~ 128.0	1276 ~ 3698
FKCDZ(62B)-8-№26	2×355	740	56.9 ~ 144.0	1380 ~ 3999
FKCDZ(62B)-8-№27	2×355	740	63.7 ~ 161.0	1488 ~ 4313
FKCDZ(62B)-8-№28	2×450	740	71.1 ~ 179.8	1600 ~ 4638

Model	Motor Power kW	Rotational Speed r/min	Air Volume m^3/s	Static Pressure Pa
FKCDZ(62A)-10-№21	2×75	590	23.9 ~ 60.5	572 ~ 1659
FKCDZ(62B)-10-№22	2×75	590	27.5 ~ 69.5	628 ~ 1820
FKCDZ(62B)-10-№23	2×90	590	31.4 ~ 79.5	686 ~ 1990
FKCDZ(62B)-10-№24	2×110	590	35.7 ~ 90.3	747 ~ 2166
FKCDZ(62B)-10-№25	2×160	590	40.3 ~ 102.1	811 ~ 2351
FKCDZ(62B)-10-№26	2×185	590	45.4 ~ 114.8	877 ~ 2542
FKCDZ(62B)-10-№27	2×200	590	50.8 ~ 128.6	946 ~ 2742
FKCDZ(62B)-10-№28	2×250	590	56.7 ~ 143.4	1017 ~ 2949
FKCDZ(62B)-10-№29	2×250	590	63.0 ~ 159.3	1091 ~ 3163
FKCDZ(62B)-10-№30	2×315	590	69.7 ~ 176.4	1168 ~ 3385
FKCDZ(62B)-10-№32	2×450	590	84.6 ~ 214.0	1329 ~ 3851
FKCDZ(62B)-10-№34	2×560	590	101.5 ~ 256.7	1500 ~ 4348
FKCDZ(62B)-10-№36	2×710	590	120.4 ~ 304.7	1682 ~ 4874
FKCDZ(62B)-12-№25	2×110	490	33.5 ~ 84.8	559 ~ 1621
FKCDZ(62B)-12-№26	2×110	490	37.7 ~ 95.3	605 ~ 1754
FKCDZ(62B)-12-№27	2×132	490	42.2 ~ 106.8	652 ~ 1891
FKCDZ(62B)-12-№28	2×160	490	47.1 ~ 119.1	702 ~ 2034
FKCDZ(62B)-12-№29	2×160	490	52.3 ~ 132.3	753 ~ 2182
FKCDZ(62B)-12-№30	2×200	490	57.9 ~ 146.5	806 ~ 2335
FKCDZ(62B)-12-№32	2×250	490	70.3 ~ 177.7	916 ~ 2656
FKCDZ(62B)-12-№34	2×315	490	84.3 ~ 213.2	1035 ~ 2999
FKCDZ(62B)-12-№36	2×450	490	100.0 ~ 253.1	1160 ~ 3362
FKCDZ(62B)-12-№38	2×560	490	117.6 ~ 297.6	1292 ~ 3746
FKCDZ(62B)-12-№40	2×710	490	137.2 ~ 347.2	1432 ~ 4150
FKCDZ(62B)-4-№10	2×45	1450	6.4 ~ 17.1	800 ~ 2275
FKCDZ(62B)-4-№11	2×55	1450	8.5 ~ 22.7	968 ~ 2753
FKCDZ(62B)-4-№12	2×75	1450	11.0 ~ 29.5	1151 ~ 3276
FKCDZ(62B)-4-№13	2×90	1450	13.9 ~ 37.5	1351 ~ 3845
FKCDZ(62B)-4-№14	2×160	1450	17.4 ~ 46.9	1567 ~ 4459

Model	Motor Power kW	Rotational Speed r/min	Air Volume m^3/s	Static Pressure Pa
FKCDZ(62B)-6-№15	2×55	960	14.5 ~ 36.6	805 ~ 2335
FKCDZ(62B)-6-№16	2×75	960	17.6 ~ 44.4	916 ~ 2656
FKCDZ(62B)-6-№17	2×90	960	21.1 ~ 53.3	1035 ~ 2999
FKCDZ(62B)-6-№18	2×132	960	25.0 ~ 63.3	1160 ~ 3362
FKCDZ(62B)-6-№19	2×160	960	29.4 ~ 74.4	1292 ~ 3746
FKCDZ(62B)-6-№20	2×220	960	34.3 ~ 86.8	1432 ~ 4150
FKCDZ(62B)-6-№21	2×280	960	39.7 ~ 100.5	1579 ~ 4576
FKCDZ(62B)-8-№18	2×55	740	18.9 ~ 47.8	661 ~ 1917
FKCDZ(62B)-8-№19	2×75	740	22.2 ~ 56.2	737 ~ 2136
FKCDZ(62B)-8-№20	2×90	740	25.9 ~ 65.5	816 ~ 2367
FKCDZ(62B)-8-№21	2×132	740	30.0 ~ 75.9	900 ~ 2609
FKCDZ(62B)-8-№22	2×160	740	34.5 ~ 87.2	988 ~ 2863
FKCDZ(62B)-8-№23	2×185	740	39.4 ~ 99.7	1080 ~ 3130
FKCDZ(62B)-8-№24	2×220	740	44.8 ~ 113.2	1176 ~ 3408
FKCDZ(62B)-8-№25	2×280	740	50.6 ~ 128.0	1276 ~ 3698
FKCDZ(62B)-8-№26	2×355	740	56.9 ~ 144.0	1380 ~ 3999
FKCDZ(62B)-8-№27	2×355	740	63.7 ~ 161.0	1488 ~ 4313
FKCDZ(62B)-8-№28	2×450	740	71.1 ~ 179.8	1600 ~ 4638
FKCDZ(54)-8-№20	2×110	740	42.0 ~ 93.0	625 ~ 2361
FKCDZ(54)-8-№21	2×132	740	48.0 ~ 107.0	670 ~ 2603
FKCDZ(54)-8-№22	2×160	740	55.0 ~ 123.0	756 ~ 2857
FKCDZ(54)-8-№23	2×200	740	63.0 ~ 141.0	820 ~ 3125
FKCDZ(54)-8-№24	2×250	740	72.0 ~ 160.0	900 ~ 3400
FKCDZ(54)-8-№25	2×315	740	81.0 ~ 181.0	977 ~ 3689
FKCDZ(54)-8-№26	2×355	740	92.0 ~ 204.0	1056 ~ 3990
FKCDZ(54)-10-№24	2×132	590	56.0 ~ 125.0	552 ~ 2090
FKCDZ(54)-10-№25	2×160	590	64.0 ~ 142.0	600 ~ 2266
FKCDZ(54)-10-№26	2×185	590	72.0 ~ 160.0	649 ~ 2450
FKCDZ(54)-10-№27	2×220	590	80.0 ~ 179.0	700 ~ 2643
FKCDZ(54)-10-№28	2×250	590	90.0 ~ 200.0	752 ~ 2843
FKCDZ(54)-10-№29	2×315	590	100.0 ~ 245.0	852 ~ 3220
FKCDZ(54)-10-№30	2×355	590	110.0 ~ 271.0	864 ~ 3264
FKCDZ(54)-10-№31	2×450	590	132.0 ~ 262.0	950 ~ 3400
FKCDZ(54)-10-№32	2×560	590	122.0 ~ 288.0	980 ~ 3650
FKCDZ(54)-10-№33	2×630	590	143.0 ~ 318.0	1050 ~ 3850
FKCDZ(54)-10-№34	2×710	590	160.0 ~ 344.0	1050 ~ 4100

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice.
If you have special requirements, please consult our company for technical confirmation.

WM1 Series Mine Ventilation Air Curtain

1. Product Introduction

The WM1 series mine ventilation air curtain is a new wide-outlet, large-air-volume air curtain used in mines. It is mainly used as advanced equipment for mine ventilation and adjustment. It is installed at the underground and surface of the mine to cut off and regulate the airflow in the mine shafts. It is mainly used to link transportation tunnels and inclined shafts, etc., in frequently operated mine shafts to install a safe air curtain, which not only isolates the airflow in the original ventilation shaft, but also does not affect the vehicles and personnel passing through. Therefore, it can replace the manual wind door to a certain extent, and its safety and reliability are much higher than that of automatic wind doors.



2. Installation Methods

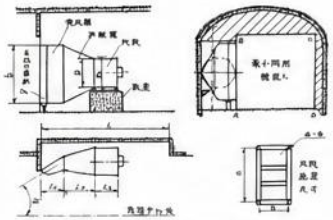


Fig. 1 Installation diagram of WM1 and BMI series mine ventilation air curtain

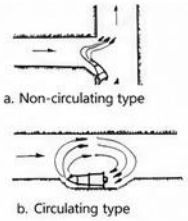


Fig. 2 Diagram of circulation methods

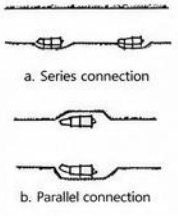


Fig. 3 Diagram of series/parallel connection layout

At locations where it is necessary to install WM1 and BMI series air curtains in mine shafts and tunnels, paneling should be carried out on one side (the side where the series connection is installed), and the paneling size of the air curtain should not affect the transportation of vehicles and the passage of personnel. If WM1 series air curtains are used, a square small tunnel should be built in accordance with the installation dimensions of the air curtain outlet based on the cross-sectional area of the air curtain, and the cross-sectional treatment of the contracted section is shown in Fig. 1, with the sectional area S0.

The air curtain extraction methods are shown in Fig. 2, including circulating type and non-circulating type. When the air curtain capacity is insufficient, two or multiple combined or series methods can be used. When the tunnel cross-sectional area is larger, isolation methods using doors can be adopted, and electrical interlocking methods should be used when the tunnel cross-sectional area is small, as shown in Fig. 3.

3. Technical Parameters

Current kinetic pressure K2	WMIN°7	WMIN°8	WMIN°9	WMIN°10	WMIN°11	WMIN°12	WMIN°13
Blade angle	BMIN°7	BMIN°8	BMIN°9	BMIN°10	BMIN°11	BMIN°12	BMIN°13
35°	57.7	98.1	157.9	240.3	352.2	498.8	687.0
40°	69.9	119.7	191.3	291.4	426.7	604.3	832.3
45°	83.3	142.2	227.6	347.3	508.2	719.8	991.4

Current kinetic pressure K0	WMIN°7	WMIN°8	WMIN°9	WMIN°10	WMIN°11	WMIN°12	WMIN°13
Blade angle	BMIN°7	BMIN°8	BMIN°9	BMIN°10	BMIN°11	BMIN°12	BMIN°13
Fan motor power (kW)	2.2	3.0	5.5	7.5	15.0	18.5	30.0
Cross-sectional area of isolation duct	Blade installation angle	Minimum cross-sectional area of isolation duct for air curtain: 4 m^2 (Pa), 6 m^2						
S1=4m^2	35°	13.9	23.7	38.0	57.9	84.8	120.0	165.3
	40°	16.7	28.5	45.6	69.6	101.8	144.2	198.7
	45°	22.6	38.6	61.8	94.1	137.8	195.2	268.8
S1=6m^2	35°	9.2	15.7	25.1	38.3	56.1	79.5	109.5
	40°	11.5	19.6	31.4	47.9	70.1	99.2	136.7
	45°	13.2	22.6	36.2	55.2	80.8	114.4	157.6

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

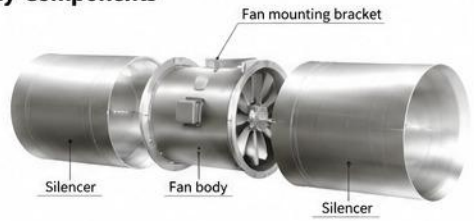
SDS Series Tunnel Axial Flow Fan

1. Product Introduction

SDS and SDS(R) series tunnel axial flow fans are single-stage and reversible axial flow fans, with fan diameters ranging from ϕ630 to ϕ1600 mm, a total of 9 machine sizes. They are designed with different rotational speeds, different blade numbers, various installation angles, and are divided into 72 product specifications. The maximum air volume is 45 m/s, the maximum thrust is 4000 N, and the maximum specific thrust is 45 N/kW. The optional SOS(R) series axial flow fan is a high-efficiency, reversible axial flow fan, with the basic thrust in both directions being the same.



2. Fan Assembly Components



3. Delivery Condition

According to the fan size and transportation method, small fans can be fully assembled for delivery, while large fans can be supplied in disassembled form, i.e., the fan body, silencers, connecting parts and installation fasteners are delivered separately.

4. Fan Performance Parameters

Performance parameter table of SDS series tunnel axial flow fan (single unit)

Model	Air volume m^3/s	Thrust N			Outlet air speed m/s	Motor power kW
		Without silencer	With silencer			
			1D	2D		
SDS-6.3-2P-4-18°	8.1	247	244	239	26.0	7.5
SDS-6.3-2P-4-24°	9.9	369	365	358	31.8	11
SDS-6.3-2P-4-30°	11.7	513	508	498	37.5	15
SDS-6.3-2P-6-33°	12.7	602	596	584	40.6	18.5
SDS-7.1-2P-6-18°	12.7	475	470	461	32.0	15
SDS-7.1-2P-6-21°	14.0	581	575	564	35.4	18.5
SDS-7.1-2P-6-24°	15.0	666	659	646	37.9	22
SDS-7.1-2P-6-30°	17.0	853	845	828	42.9	30
SDS-7.1-2P-6-33°	18.0	960	950	931	45.5	37
SDS-8-4P-6-18°	9.3	204	202	198	18.6	4
SDS-8-4P-6-21°	10.6	260	257	252	21.0	5.5
SDS-8-4P-6-27°	12.6	368	364	357	25.0	7.5
SDS-8-4P-6-33°	14.1	461	457	448	28.0	11
SDS-6.3-2P-4-18°	8.1	247	244	239	26.0	7.5
SDS-6.3-2P-4-24°	9.9	369	365	358	31.8	11
SDS-6.3-2P-4-30°	11.7	513	508	498	37.5	15
SDS-6.3-2P-6-33°	12.7	602	596	584	40.6	18.5
SDS-7.1-2P-6-18°	12.7	475	470	461	32.0	15
SDS-7.1-2P-6-21°	14.0	581	575	564	35.4	18.5
SDS-7.1-2P-6-24°	15.0	666	659	646	37.9	22
SDS-7.1-2P-6-30°	17.0	853	845	828	42.9	30
SDS-7.1-2P-6-33°	18.0	960	950	931	45.5	37
SDS-9-4P-6-18°	13.0	313	310	304	20.5	7.5
SDS-9-4P-6-24°	16.7	477	472	456	26.2	11
SDS-9-4P-6-27°	18.8	511	506	496	29.5	15
SDS-9-4P-6-30°	20.1	641	634	620	31.6	18.5
SDS-9-4P-6-33°	23.1	744	736	722	36.3	22
SDS-10-4P-6-18°	17.7	466	461	452	22.5	11
SDS-10-4P-6-24°	21.2	670	664	650	27.0	15
SDS-10-4P-6-27°	23.2	800	792	776	29.5	18.5
SDS-10-4P-6-30°	24.3	884	875	857	31.0	22
SDS-11.2-4P-6-18°	27.3	744	736	722	27.7	18.5
SDS-11.2-4P-6-21°	29.9	899	890	872	30.3	22
SDS-11.2-4P-6-24°	32.3	1075	1065	1043	32.8	30
SDS-11.2-4P-6-27°	34.9	1260	1247	1223	35.4	37
SDS-11.2-4P-6-30°	37.4	1468	1453	1424	38.0	45
SDS-11.2-4P-6-33°	39.8	1691	1674	1641	40.4	55
SDS-12.5-4P-6-21°	38.3	1420	1406	1378	31.2	37
SDS-12.5-4P-6-24°	41.6	1677	1660	1627	33.9	45
SDS-12.5-4P-8-27°	45.2	1976	1956	1917	36.8	55
SDS-12.5-4P-8-30°	48.5	2276	2254	2208	39.5	75
SDS-12.5-4P-8-33°	51.5	2574	2548	2497	42.0	90
SDS-12.5-6P-6-18°	23.1	516	510	500	18.8	11
SDS-12.5-6P-6-24°	27.6	739	739	731	71.7	15
SDS-12.5-6P-8-27°	29.8	861	853	836	24.3	18.5
SDS-12.5-6P-8-30°	32.2	1001	991	818	26.2	22
SDS-12.5-6P-8-30°	34.5	1152	1140	1118	28.1	30
SDS-14-6P-6-18°	33.6	870	861	844	21.8	18.5
SDS-14-6P-6-21°	36.8	1045	1035	1014	23.9	22
SDS-14-6P-8-24°	39.9	1228	1215	1191	25.9	30
SDS-14-6P-8-27°	43.1	1435	1420	1135	25.9	37

Model	Air volume m³/s	Thrust N			Outlet air speed m/s	Motor power kW
		Without silencer	With silencer			
			1D	2D		
SDS-6.3-2P-4-18°	8.1	247	244	239	26.0	7.5
SDS-6.3-2P-4-24°	9.9	369	365	358	31.8	11
SDS-6.3-2P-4-30°	11.7	513	508	498	37.5	15
SDS-6.3-2P-6-33°	12.7	602	596	584	40.6	18.5
SDS-7.1-2P-6-18°	12.7	475	470	461	32.0	15
SDS-7.1-2P-6-21°	14.0	581	575	564	35.4	18.5
SDS-7.1-2P-6-24°	15.0	666	659	646	37.9	22
SDS-7.1-2P-6-30°	17.0	853	845	828	42.9	30
SDS-7.1-2P-6-33°	18.0	960	950	931	45.5	37
SDS-8-4P-6-18°	9.3	204	202	198	18.6	4
SDS-8-4P-6-21°	10.6	260	257	252	21.0	5.5
SDS-8-4P-6-27°	12.6	368	364	357	25.0	7.5
SDS-8-4P-6-33°	14.1	461	457	448	28.0	11
SDS-9-4P-6-18°	13.0	313	310	304	20.5	7.5
SDS-9-4P-6-24°	16.7	477	472	456	26.2	11
SDS-9-4P-6-27°	18.8	511	506	496	29.5	15
SDS-9-4P-6-30°	20.1	641	634	620	31.6	18.5
SDS-9-4P-6-33°	23.1	744	736	722	36.3	22
SDS-10-4P-6-18°	17.7	466	461	452	22.5	11
SDS-10-4P-6-24°	21.2	670	664	650	27.0	15
SDS-10-4P-6-27°	23.2	800	792	776	29.5	18.5
SDS-10-4P-6-30°	24.3	884	875	857	31.0	22
SDS-11.2-4P-6-18°	27.3	744	736	722	27.7	18.5
SDS-11.2-4P-6-21°	29.9	899	890	872	30.3	22
SDS-11.2-4P-6-24°	32.3	1075	1065	1043	32.8	30
SDS-11.2-4P-6-27°	34.9	1260	1247	1223	35.4	37
SDS-11.2-4P-6-30°	37.4	1468	1453	1424	38.0	45
SDS-11.2-4P-6-33°	39.8	1691	1674	1641	40.4	55
SDS-12.5-4P-6-21°	38.3	1420	1406	1378	31.2	37
SDS-12.5-4P-6-24°	41.6	1677	1660	1627	33.9	45
SDS-12.5-4P-8-27°	45.2	1976	1956	1917	36.8	55
SDS-12.5-4P-8-30°	48.5	2276	2254	2208	39.5	75
SDS-12.5-4P-8-33°	51.5	2574	2548	2497	42.0	90

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

SDS(R) Series Tunnel Axial Flow Fan (Double Unit) Performance Parameter Table

Model	Air volume m³/s	Thrust N			Outlet air speed m/s	Motor power kW
		Without silencer	With silencer			
			1D	2D		
SDS(R)-6.3-2P-4-18°	7.9	232	230	225	25.2	7.5
SDS(R)-6.3-2P-4-24°	9.6	347	343	337	30.8	11
SDS(R)-6.3-2P-4-30°	11.3	482	478	468	36.4	15
SDS(R)-6.3-2P-6-33°	12.3	566	560	549	39.4	18.5
SDS(R)-7.1-2P-6-21°	13.6	546	541	530	34.3	18.5
SDS(R)-7.1-2P-4-24°	14.6	626	620	607	36.8	22
SDS(R)-7.1-2P-6-30°	16.5	802	794	778	41.6	30
SDS(R)-7.1-2P-6-33°	17.5	902	893	875	44.1	37
SDS(R)-8-4P-6-18°	9.1	191	189	186	18.0	4.0
SDS(R)-8-4P-6-21°	10.2	244	242	237	20.4	5.5
SDS(R)-8-4P-6-24°	11.5	306	302	296	22.8	7.5
SDS(R)-8-4P-8-27°	12.2	346	342	335	24.3	7.5
SDS(R)-8-4P-8-33°	13.7	434	429	421	27.2	11
SDS(R)-9-4P-6-18°	12.7	294	291	285	19.9	7.5
SDS(R)-9-4P-6-24°	16.2	448	444	435	25.4	11
SDS(R)-9-4P-6-27°	18.7	481	476	466	29.4	15
SDS(R)-9-4P-8-30°	19.5	636	629	616	30.7	18.5
SDS(R)-9-4P-8-33°	22.5	699	692	678	35.4	22
SDS(R)-10-4P-6-18°	17.1	438	433	425	21.8	11
SDS(R)-10-4P-6-24°	20.6	630	624	611	26.2	15
SDS(R)-10-4P-8-27°	22.5	752	745	730	28.6	18.5
SDS(R)-10-4P-8-30°	23.6	831	822	806	30.1	22
SDS(R)-10-4P-8-33°	26.1	1011	1001	981	33.2	30

Model	Air volume m^3/s	Thrust N			Outlet air speed m/s	Motor power kW
		Without silencer	With silencer			
			1D	2D		
SDS-6.3-2P-4-18°	8.1	247	244	239	26.0	7.5
SDS-6.3-2P-4-24°	9.9	369	365	358	31.8	11
SDS-6.3-2P-4-30°	11.7	513	508	498	37.5	15
SDS-6.3-2P-6-33°	12.7	602	596	584	40.6	18.5
SDS-7.1-2P-6-18°	12.7	475	470	461	32.0	15
SDS-7.1-2P-6-21°	14.0	581	575	564	35.4	18.5
SDS-7.1-2P-6-24°	15.0	666	659	646	37.9	22
SDS-7.1-2P-6-30°	17.0	853	845	828	42.9	30
SDS-7.1-2P-6-33°	18.0	960	950	931	45.5	37
SDS-8-4P-6-18°	9.3	204	202	198	18.6	4
SDS-8-4P-6-21°	10.6	260	257	252	21.0	5.5
SDS-8-4P-6-27°	12.6	368	364	357	25.0	7.5
SDS-8-4P-6-33°	14.1	461	457	448	28.0	11
SDS-9-4P-6-18°	13.0	313	310	304	20.5	7.5
SDS-9-4P-6-24°	16.7	477	472	456	26.2	11
SDS-9-4P-6-27°	18.8	511	506	496	29.5	15
SDS-9-4P-6-30°	20.1	641	634	620	31.6	18.5
SDS-9-4P-6-33°	23.1	744	736	722	36.3	22
SDS-10-4P-6-18°	17.7	466	461	452	22.5	11
SDS-10-4P-6-24°	21.2	670	664	650	27.0	15
SDS-10-4P-6-27°	23.2	800	792	776	29.5	18.5
SDS-10-4P-6-30°	24.3	884	875	857	31.0	22
SDS-11.2-4P-6-18°	27.3	744	736	722	27.7	18.5
SDS-11.2-4P-6-21°	29.9	839	830	812	30.3	22
SDS-11.2-4P-6-24°	32.8	1960	1909	1893	35.9	37
SDS-11.2-4P-8-30°	37.2	1080	1803	1894	38.0	45
SDS-11.2-4P-8-33°	39.8	1691	1674	1641	40.4	55
SDS-12.5-4P-6-21°	38.3	1420	1406	1378	31.2	37
SDS-12.5-4P-6-24°	41.6	1677	1660	1627	33.9	45
SDS-12.5-4P-8-27°	45.2	1976	1956	1917	36.8	55
SDS-12.5-4P-8-30°	48.5	2276	2254	2208	39.5	75
SDS-12.5-4P-8-33°	51.5	2574	2548	2497	42.0	90

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confirmation.

Model	Air volume m^3/s	Thrust N			Outlet air speed m/s	Motor power kW
		Without silencer	With silencer			
			1D	2D		
SDS(R)-11.2-4P-6-18°	26.5	699	682	668	26.9	18.5
SDS(R)-11.2-4P-6-22°	29.0	845	824	807	29.4	22
SDS(R)-11.2-4P-6-24°	31.3	1011	986	966	31.3	30
SDS(R)-11.2-4P-6-27°	33.8	1184	1155	1132	34.3	37
SDS(R)-11.2-4P-6-30°	36.3	1380	1345	1318	36.9	45
SDS(R)-11.2-4P-8-33°	39.1	1590	1550	1519	40.0	55
SDS(R)-12.5-4P-6-21°	37.1	1335	1302	1276	30.3	37
SDS(R)-12.5-4P-6-24°	40.4	1576	1537	1506	32.9	45
SDS(R)-12.5-4P-6-27°	43.8	1857	1811	1775	35.7	55
SDS(R)-12.5-4P-8-30°	47.0	2140	2086	2045	38.3	75
SDS(R)-12.5-4P-8-33°	50.0	2419	2359	2312	40.7	90
SDS(R)-12.5-6P-6-18°	22.4	485	473	463	18.2	11
SDS(R)-12.5-6P-6-24°	26.8	694	677	663	21.8	15
SDS(R)-12.5-6P-8-27°	28.9	810	790	774	23.6	18.5
SDS(R)-12.5-6P-8-30°	31.2	941	918	899	25.4	22
SDS(R)-12.5-6P-8-33°	33.4	1083	1056	1035	27.3	30
SDS(R)-14-6P-6-18°	32.6	818	797	781	21.1	18.5
SDS(R)-14-6P-6-21°	35.7	983	958	939	23.2	22
SDS(R)-14-6P-6-24°	38.7	1154	1125	1103	25.1	30
SDS(R)-14-6P-8-27°	41.8	1349	1315	1289	27.2	37
SDS(R)-14-6P-8-30°	44.9	1559	1520	1489	29.2	45
SDS(R)-14-6P-8-33°	48.1	1784	1739	1704	31.2	55
SDS(R)-14-8P-6-18°	24.6	468	457	448	16.0	7.5
SDS(R)-14-8P-6-21°	26.9	557	543	533	17.5	11

Axial Flow Fan Series
T35, BT35 Series Axial Flow Fan

1. Product Introduction

T35 is mainly used for general ventilation and air exchange in places such as factories, warehouses, offices, and residential buildings. When the fan casing is removed, it can also be used for free air supply. It can be installed in series in long exhaust ducts to increase the air pressure in the duct.

BT35 explosion-proof axial flow fan is mainly used to exhaust flammable, explosive, and non-corrosive gases. The impeller is made of aluminum alloy to prevent sparks caused by friction during operation. The motor must be an explosion-proof motor, and the on-off switch must be an explosion-proof switch. It is suitable for places with easy-to-explode gases and does not allow electrical connections in hazardous areas.



2. Product Technical Parameters

Product Model	Power kW	Speed r/min	Air volume m³/h	Air pressure Pa	Voltage V
(B)T35-11N°2.8	0.18	1450	826–1605	38–60	380, 220
(B)T35-11N°2.8	0.25	2900	1649–3202	152–232	380, 220
(B)T35-11N°3.15	0.25	1450	1169–2273	28–74	380, 220
(B)T35-11N°3.15	0.37	2900	2339–4545	192–294	380, 220
(B)T35-11N°3.55	0.37	1450	1680–3265	61–93	380, 220
(B)T35-11N°3.55	0.75	2900	3367–6542	241–373	380, 220
(B)T35-11N°4.0	0.55	1450	2406–4687	77–119	380, 220
(B)T35-11N°4.0	1.1	2900	4806–9336	310–474	380, 220
(B)T35-11N°4.5	0.55	1450	3127–6658	98–150	380, 220
(B)T35-11N°5.0	0.75	1450	4700–9133	122–185	380, 220
(B)T35-11N°5.6	1.1	960	4362–8471	67–101	380
(B)T35-11N°5.6	1.1	1450	6595–12812	151–232	380
(B)T35-11N°6.3	1.1	960	6219–12082	84–128	380
(B)T35-11N°6.3	1.5	1450	9393–19250	192–294	380
(B)T35-11N°7.1	1.5	960	8902–17296	100–164	380
(B)T35-11N°7.1	3	1450	13555–26120	244–373	380
(B)T35-11N°8.0	2.2	960	12733–24739	136–208	380
(B)T35-11N°8.0	4	1450	19235–37070	310–474	380
(B)T35-11N°9.0	3	960	18132–35227	172–263	380
(B)T35-11N°10.0	4	960	24874–48326	213–324	380
(B)T35-11N°11.2	7.5	960	34944–67892	267–407	380

Note: With the continuous improvement of product technology and relevant national and international standards, the technical parameters in this catalog are subject to change without prior notice. If you have special requirements, please consult our company for technical confimation.

DFBZ Series Wall Axial Flow Fan

1. Product Introduction

1. The DFBZ wall axial flow fan adopts wide-blade, low-speed, space airfoil blades and a tilted impeller shape, which can achieve high air volume at low noise, low airflow resistance, and reduced fan noise. It can be directly installed on the wall or used as a general ventilation and exhaust fan for indoor or outdoor open spaces.

2. The fan can be made into an explosion-proof wall axial flow fan of BXDZ type according to different environmental requirements. It can be used in places with flammable, explosive, and corrosive gases, with explosion-proof grade ExdII BT4. The fan impeller has a total of 11 specifications with diameters from 250 to 810 mm, air volume from 600 to 19000 m³/h, and air pressure from 40 to 240Pa.



2. Product Technical Parameters

Model	Air volume(m³/h)	Total pressure(Pa)	Power(kW)	Speed(r/min)	Noise dB(A)	Weight(kg)
2.8	950	41	0.04	1450	≤ 55	18
	1230	45	0.04		≤ 60	18
	1650	58	0.06		≤ 60	20
3.2	1720	56	0.04	1450	≤ 61	21
	1940	62	0.06		≤ 62	24
	2250	68	0.09		≤ 63	27
3.6	2010	65	0.06	1450	≤ 62	28
	2480	73	0.09		≤ 63	31
	3370	76	0.12		≤ 63	35
4.0	3540	89	0.12	1450	≤ 62	37
	4080	95	0.18		≤ 63	40
	4470	109	0.25		≤ 63	41
4.5	4510	114	0.18	1450	≤ 64	42
	5870	121	0.25		≤ 65	47
	6360	139	0.37		≤ 66	49
5.0	6170	135	0.25	1450	≤ 65	50
	6920	142	0.37		≤ 66	55
	7890	147	0.55		≤ 68	63



DTF series

DTF Series Axial Flow Fan for Metro and Tunnel

1. Overview

The DTF series axial flow fan is a new product developed by our company by absorbing advanced technologies at home and abroad, fully considering the actual operating conditions in China, and combining with the characteristics of metro and tunnel projects. This product series features high efficiency, high pressure, large air volume, stable operation, low noise, compact structure, beautiful appearance, and high reliability, and can meet various special requirements in ventilation and smoke exhaust systems for metro and tunnel engineering.

The DTF series fans are available in various specifications, with impeller diameters ranging from 910 to 2800 mm, a maximum air volume of 980,000 m^3/h, and a total pressure of up to 2800 Pa. The blade angle is adjustable, and different working conditions can be met according to user requirements. The DTF series axial flow fan has passed national authortiative testing and certification, with an air volume efficiency of up to 92%. It can continuously operate for 2 hours at 280°C and will not cause mechanical, electrical or structural damage. It is in an emergency state for use in fire exhaust smoke control (according to XF 211-2009).

2. Product Features

Great Reliability

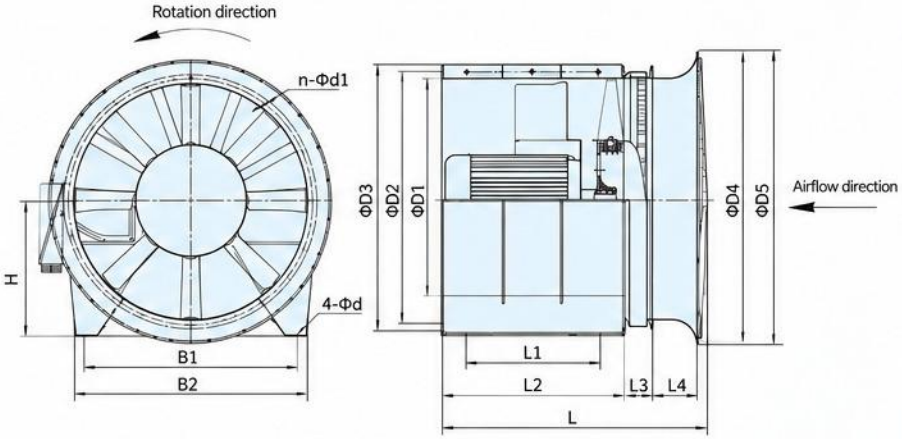
- The fan adopts internationally advanced FEA fluid analysis and optimization design, with reasonable strength safety factor; the impeller is made of high-strength aluminum alloy, which can withstand high thermal expansion and temperature rise under a 300°C hot smoke environment, meeting the requirements of tunnel fire exhaust.
- The fan is manufacturred using advanced molding process, with integral aluminum alloy blades. After strict dynamic and static balance testing, the overall operation is smooth and reliable. Each blade undergoes rigorous structural strength and non-destructive testing to ensure qualified quality.
- Before leaving the factory, the fan is assembled and tested as a whole unit. The vibration value meets ISO G2.5 (equivalent to national standard 6.3), with small vibration and stable operation.
- Strict quality control is implemented in the design, manufacturing and testing of fans and motors, including vibration testing, air flow performance testing, etc.., to ensure that product performance meets the specified standards and user requirements.
- The blade angle can be adjusted according to the actual needs of the project, making the fan operation more reliable. The motor is mainly equipped with high-efficiency, energy-saving products, and the operating temperature rise is lower.

High Efficiency and Low Sound

- Adopting international latest aerodynamic design technology, the impeller blade shape is optimized, and CFD flow field simulation technology is used for design verification, effectively improving aerodynamic performance and operating efficiency, with high efficiency and energy saving.
- The fan adopts streamlined air inlet and air outlet design, and also adopts a silencing structure to further improve fan efficiency and reduce noise.
- The blade angle can be adjusted according to the needs of the project, so that the fan can run efficiently and stably in various working conditions.
- Each component is processed with high precision, strictly controlled for dynamic and static balance, and the fan runs smoothly with low vibration and low noise.

1. Outline Dimensions

Outline Dimension for DTF (Horizontal Mount)

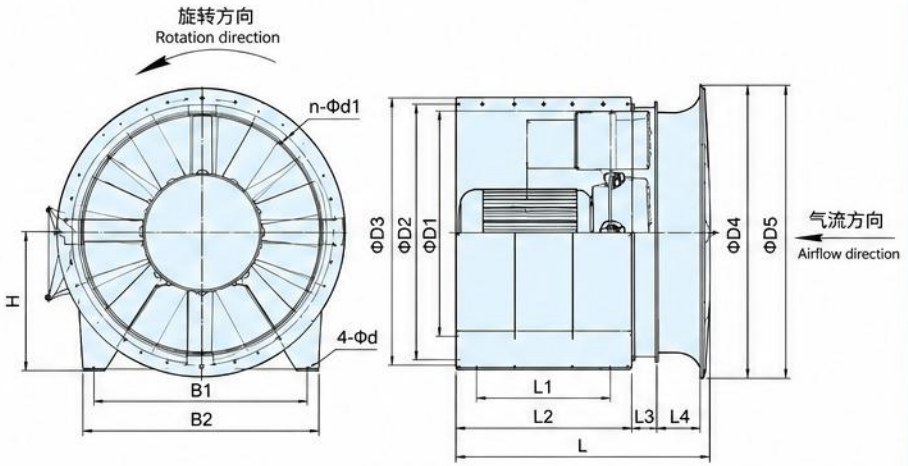


Outline Dimension Table for DTF (Horizontal Mount)

Model	Dimension (mm)														
	D1	D2	D3	D4	D5	H	L1	L2	L3	L4	L	B1	B2	n-φd1	d
DTF-1500	1510	1580	1650	1800	1840	880	900	1100	250	165	1515	1160	1340	24-φ24	18
DTF-1600	1610	1700	1760	2010	2050	910	1000	1300	250	200	1750	1240	1420	24-φ24	18
DTF-1800	1810	1900	1970	2200	2250	1030	1050	1350	250	220	1820	1620	1800	24-φ24	18
DTF-2000	2012	2090	2160	2450	2500	1120	1120	1520	250	245	2015	1820	2000	24-φ24	18
DTF-2200	2244	2330	2414	2650	2700	1265	1150	1550	250	320	2120	1820	2000	24-φ24	18
DTF-2400	2416	2530	2610	2850	2900	1380	1340	1750	250	320	2310	2000	2260	24-φ24	18
DTF-2500	2520	2620	2680	2920	2970	1430	1580	1890	250	320	2450	2100	2360	36-φ28	18
DTF-2600	2616	2730	2810	3050	3100	1480	1640	1940	250	320	2510	2200	2460	36-φ28	18
DTF-2800	2820	3040	3010	3250	3300	1580	1840	2140	250	320	2710	2400	2680	36-φ28	18

Note: The L related value in the table mean the maximum length. The actual values may vary according to the motor power.
ΦD4, ΦD5, L and L4 values are the length after the inlet bell is added. The inlet bell can be provided as an optional accessory.

Outline Dimension for DTF (Horizontal Mount)



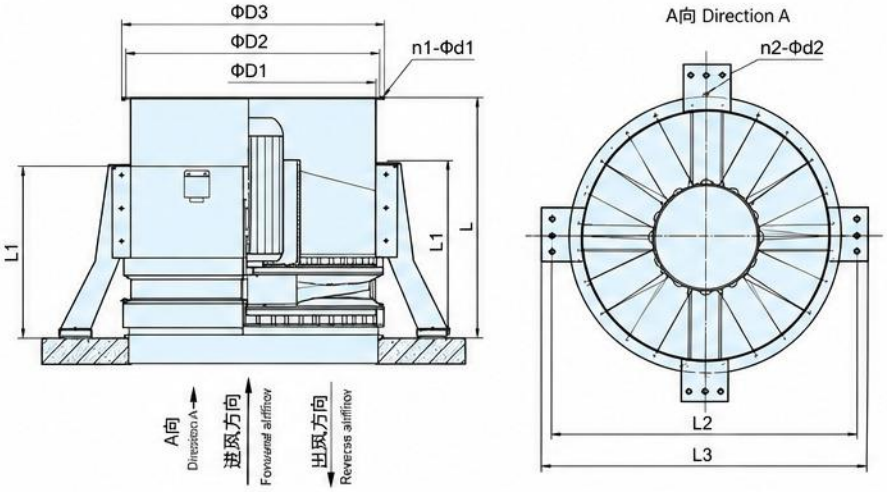
Outline Dimension Table for DTF (Horizontal Mount)

Model	Dimension (mm)														
	D1	D2	D3	D4	D5	H	L1	L2	L3	L4	L	B1	B2	n-Φd1	d
DTF-1500	1510	1580	1650	1800	1840	880	900	1100	250	165	1515	1160	1340	24-Φ24	18
DTF-1600	1610	1700	1760	2010	2050	910	1000	1300	250	200	1750	1240	1420	24-Φ24	18
DTF-1800	1810	1900	1970	2200	2250	1030	1050	1350	250	220	1820	1620	1800	24-Φ24	18
DTF-2000	2012	2090	2160	2450	2500	1120	1120	1520	250	245	2015	1820	2000	24-Φ24	18
DTF-2200	2244	2330	2414	2650	2700	1265	1150	1550	250	320	2120	1820	2000	24-Φ24	18
DTF-2400	2416	2530	2610	2850	2900	1380	1340	1750	250	320	2310	2000	2260	24-Φ24	18
DTF-2500	2520	2620	2680	2920	2970	1430	1580	1890	250	320	2450	2100	2360	36-Φ28	18
DTF-2600	2616	2730	2810	3050	3100	1480	1640	1940	250	320	2510	2200	2460	36-Φ28	18
DTF-2800	2820	3040	3010	3250	3300	1580	1840	2140	250	320	2710	2400	2680	36-Φ28	18

注：长度方向上的尺寸为最大极限值，实际值可能根据所配电机功率的高低而减小。
其中ΦD4、ΦD5、L、L4为加装法兰或后段尺寸，供选配时参考。

Note: The L related value in the table mean the maximum length. The actual values may vary according to the motor power.
ΦD4, ΦD5, L and L4 values are the length after the inlet bell is added. The inlet bell can be provided as an optional accessory.

Outline Dimension for DTF(R) (Vertical Mount)



Outline Dimension Table for DTF(R) (Vertical Mount)

Model	Dimension (mm)								
	D1	D2	D3	L	L1	L2	L3	n1-Φd1	n2-Φd2
DTF(R)-1250	1260	1330	1380	1110	400	1600	1650	20-Φ14	4-Φ14
DTF(R)-1400	1410	1480	1550	1150	500	1800	1860	20-Φ14	4-Φ14
DTF(R)-1500	1510	1580	1650	1150	500	1900	1960	24-Φ14	4-Φ14
DTF(R)-1600	1610	1700	1760	1210	600	2000	2070	24-Φ14	4-Φ14
DTF(R)-1800	1810	1900	1970	1250	700	2200	2270	24-Φ14	4-Φ14
DTF(R)-1900	1910	2030	2100	1310	700	2300	2370	24-Φ14	4-Φ14
DTF(R)-2000	2012	2090	2160	1410	750	2400	2480	24-Φ14	4-Φ14
DTF(R)-2100	2112	2240	2340	1430	750	2500	2580	24-Φ14	4-Φ14
DTF(R)-2200	2214	2330	2414	1490	800	2700	2780	24-Φ14	4-Φ14
DTF(R)-2400	2416	2530	2610	1680	850	2900	2980	24-Φ14	6-Φ14
DTF(R)-2500	2512	2630	2720	1680	850	3000	3080	36-Φ18	6-Φ14
DTF(R)-2600	2616	2730	2810	1930	900	3200	3280	36-Φ18	6-Φ14
DTF(R)-2800	2820	3040	3010	2030	950	3400	3480	36-Φ18	6-Φ14

Note: The L related values in the table mean the maximum length. The actual values may vary according to the motor power.