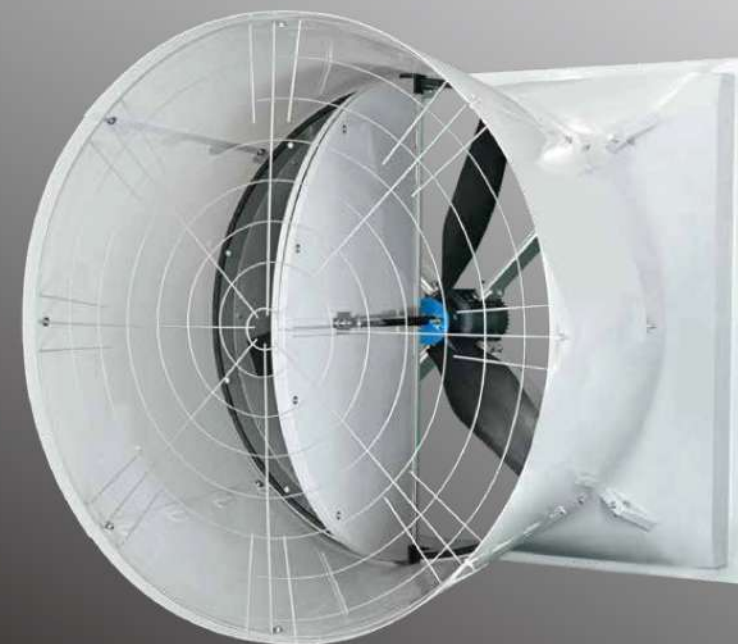
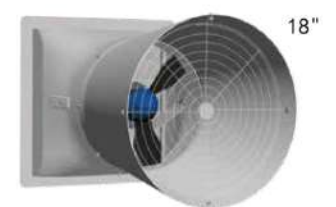
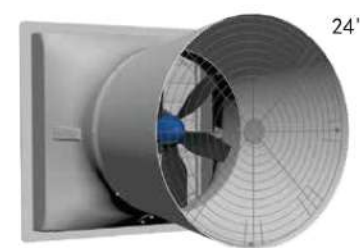
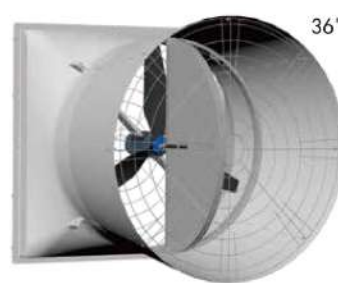
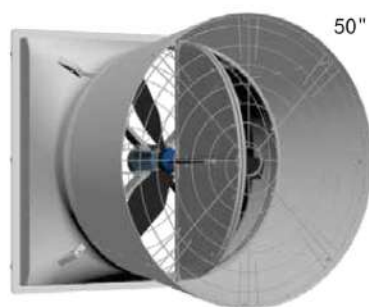
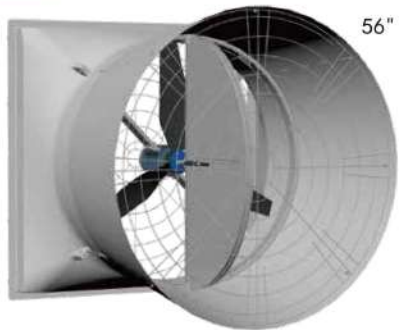




EurusFan®
EurusDrive®
EurusIEC®



High Performance

- High airflow ratio
- High VER
- Low noise
- No decline



Energy Efficient

- High efficiency IE5 PMSM
- Efficient impellers
- Housing with low airflow resistance
- Damper with low airflow resistance



Reliable Quality

- Corrosion resistant materials
- Weather resistant materials
- Simple and reliable direct-drive
- In-house and on-site reliability testing



Innovative Application

- PMSM motor with integrated drive
- Design for assembly (DFA)
- Design for installation (DFI)
- Airtight dampers and shutters



Flexible Design

- Flexible & customized impeller system
- Flexible cone design
- Fan variants for different applications
- Optional dampers or shutters
- Standardized parts design



Safety mesh

Optimized aerodynamic performance

- Innovative design to minimize airflow resistance

Safe operation

- Complied with safety standard

Durable & Reliable

- Double layers surface treatment for long-term use in high humidity and corrosive environments

Stable structure

- Stable supporting & joint structure for cones



Cones

Optimized aerodynamic performance

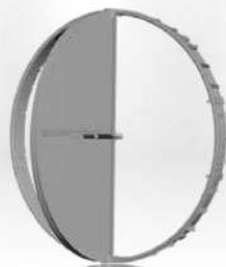
- Optimized length & angel to maximize fan performance

Simple and efficient

- Easy assembly & installation
- Flexible design and CNC machining
- Customizable for special demand

Durable & Reliable

- Anti - UV & corrosion resistant material
- Material with good impact strength



Butterfly damper

Optimized aerodynamic performance

- Double-piece electric opening and closing butterfly damper with low flow resistance

High airtightness

- 360° seal design assures high airtightness.
- Synchronized damper door panels ensure airtight closing.

Maintenance free

- Hardly butterfly damper collects dust on door panels after long-term operation.



Impellers

Optimized aerodynamic performance

- High speed direct-drive impeller with superior aerodynamic design ensures fan performance while reducing fan energy consumption.
- The winglet design of impeller blade from bionics reduces energy loss and noise level.

High performance material

- High performance fiber reinforced composite materials.
- High strength and light-weighting impeller to reduce load on motor bearings.
- High material strength, good deformation resistance, and outstanding creep resistance ensure no performance decline after long-term operation.
- The material strength no decrease due to water absorption, suitable for high humidity environments.

Precise fabrication and assembly

- High fabrication precision ensures consistent quality of mass production parts.
- High assembly precision ensures consistent impeller performance.

Standardized design

- Standardized hub design ensures reliable power transmission and convenient assembly of impeller.
- 3-blades or 6-blades setup of impeller ensure multiple variants for different applications.



PMSM motor

High performance and high efficiency

- IE5 high efficiency PMSM motor with high temperature rare earth magnets
- Efficiency of PMSM motor tested by CNAS, and CE certification.

Intelligent control

- Available for Analog / Digital / EIN control modes
- Manual and automatic mode switching and speed adjusting available for all fans in any control mode
- Operating status indicator integrated with PMSM motor
- In any control mode, having the functions of individual warning signal out-put and force-starting the fan by external input signal

Easy to operate

- AC/DC all-in-one design of PMSM motor available for damper control and power supply
- Plug & Play control cable from motor to controller
- All setting parameters of PMSM motors done in factory without on-site works

Reliabilities & Protections

- Long-life film capacitor being used in PMSM drive
- PMSM uses sensorless design and controlled by FOC
- Comes with a number of protection functions, such as overload, over-current, overvoltage, undervoltage, lack of equality
- High impulse voltage resistance for anti-surge and lightning protection
- EMC compatibility meets EN IEC 61800-3
- With PMSM demagnetization protection



Supporting frame

Optimized aerodynamic performance

- Arc windward surface design of aluminum frame ensures minimum airflow resistance.

Simple and efficient

- Direct-drive design ensures high efficiency of power transmission.
- Direct-drive design without belt-drive system ensures maintenance free.
- Stable "X" type frame reduces vibration.
- Optimized airflow cross-sectional area

High performance material

- High material strength and good deformation resistance
- Anodized surface treatment for high corrosion resistance

DFA/DFI

- DFA/DFI design ensures accuracy and efficiency of assembly and on-site installation.
- Idiot-proof designs applied to components ensure quality of assembly and installation.



Fan housing

Optimized aerodynamic performance

- Surface fusion design minimizes airflow resistance and ensure excellent performance.
- Smooth inner surface reduces airflow resistance.

High performance material

- Customized material of fiber reinforced plastic ensures high impact strength, tensile strength and flexural strength of finished product.
- Anti-UV & corrosion resistant material
- High dimensional stability and good deformation resistance of finished fan housing



Shutters

Optimized aerodynamic performance

- The airfoil design of shutter blade minimizes airflow resistance and improve fan performance.
- The bell-mouth design of shutter inlet frame maximize air inlet area, minimizes airflow resistance and improves fan performance.

High airtightness

- Shutter blades with overlapping soft edge design maintain airtightness.
- Seal blocks mounted on frame conform closely to the surface profile of shutter blades to maintain the airtightness of each blade.
- The sealing strips on upper and lower frames of the shutters ensure the overall air tightness.

Durable and reliable

- Durable and reliable PVC material
- Assembled shutter frame structure has better overall rigidity and less deformation.

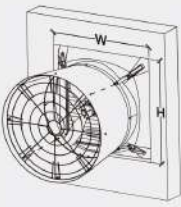


Technical Data (3 Phases, 380V ~ 480V, 50Hz/60Hz)

Size (inch)	Model	Drive	RPM	Blades	Shutter or damper	0 Pa		25Pa		50Pa		75Pa		Tested by
						Q _v M ³ /H	VER (M ³ /H)/W	Q _v M ³ /H	VER (M ³ /H)/W	Q _v M ³ /H	VER (M ³ /H)/W	Q _v M ³ /H	VER (M ³ /H)/W	
56"	VFE2-56HF-A3PM-CR	Direct-drive/2.2KW/IE5	720	3	Standard airtight PVC shutter	76770	36.1	71870	30.0	66250	26.1	58090	21.9	Eurus Lab
	VFE2-56HF-A3PM-CBA	Direct-drive/2.2KW/IE5	720	3	Motorized airtight butterfly damper	+77420	+35.7	69400	29.5	63200	25.3	55200	21.3	Bess Lab#23097
	VFE2-56HF-A3PM-CBA-EIN	Direct-drive/2.2KW/IE5/EIN	720	3	Motorized airtight butterfly damper	+77420	+35.7	69400	29.5	63200	25.3	55200	21.3	Bess Lab#23097
	VFE2-56HO-A3PM-CR	Direct-drive/1.5KW/IE5	690	3	Standard airtight PVC shutter	65400	49.6	59500	38.9	52700	30.6	43700	23.7	Bess Lab#23091
	VFE2-56HO-A3PM-CBA	Direct-drive/1.5KW/IE5	690	3	Motorized airtight butterfly damper	64100	47.4	58400	37.4	51700	29.7	43100	23.4	Bess Lab#23096
	VFE2-56HO-A3PM-CBA-EIN	Direct-drive/1.5KW/IE5/EIN	690	3	Motorized airtight butterfly damper	64100	47.4	58400	37.4	51700	29.7	43100	23.4	Bess Lab#23096
	VFE2-56HE-A3PM-CR	Direct-drive/1.5KW/IE5	710	3	Standard airtight PVC shutter	61040	53.9	54860	40.1	48010	31.3	39050	23.9	Eurus Lab
	VFE2-56HE-A3PM-CBA	Direct-drive/1.5KW/IE5	710	3	Motorized airtight butterfly damper	59300	51.8	53800	40.8	47300	31.8	39600	25.1	Bess Lab#23095
	VFE2-56HE-A3PM-CBA-EIN	Direct-drive/1.5KW/IE5/EIN	710	3	Motorized airtight butterfly damper	59300	51.8	53800	40.8	47300	31.8	39600	25.1	Bess Lab#23095
50"	VFE2-50HO-A3PM-CR	Direct-drive/1.5KW/IE5	690	3	Standard airtight PVC shutter	57700	39.0	53100	32.5	48200	27.3	40400	22.1	Bess Lab#23085
	VFE2-50HO-A3PM-CBA	Direct-drive/1.5KW/IE5	690	3	Motorized airtight butterfly damper	56600	38.3	51500	31.2	45700	25.9	38100	21.0	Bess Lab#23088
	VFE2-50HO-A3PM-CBA-EIN	Direct-drive/1.5KW/IE5/EIN	690	3	Motorized airtight butterfly damper	56600	38.3	51500	31.2	45700	25.9	38100	21.0	Bess Lab#23088
36"	VFE2-36HO-A3PM-CR	Direct-drive/0.75KW/IE5	980	3	Standard airtight PVC shutter	28100	35.4	25600	29.9	22900	25.1	19600	20.6	Bess Lab#23099
	VFE2-36HO-A3PM-CBA	Direct-drive/0.75KW/IE5	980	3	Motorized airtight butterfly damper	27400	33.9	25100	28.7	22500	24.4	19600	20.3	Bess Lab#23080
	VFE2-36HO-A3PM-CBA-EIN	Direct-drive/0.75KW/IE5/EIN	980	3	Motorized airtight butterfly damper	27400	33.9	25100	28.7	22500	24.4	19600	20.3	Bess Lab#23080
24"	VFE2-24HO-A3PM-CR	Direct-drive/0.37KW/IE5	1000	6	Standard airtight PVC shutter	13400	39.9	12200	31.9	10900	26.0	7600	18.2	Bess Lab#23075
	VFE2-24HO-A3PM-CP	Direct-drive/0.37KW/IE5	1000	6	Powered airtight PVC shutter	13680	40.1	12560	32.1	11050	26.5	8060	19.1	Eurus Lab
	VFE2-24HO-A3PM-CP-EIN	Direct-drive/0.37KW/IE5/EIN	1000	6	Powered airtight PVC shutter	13680	40.1	12560	32.1	11050	26.5	8060	19.1	Eurus Lab
18"	VFE2-18-A3PM-CR	Direct-drive/0.37KW/IE5	1480	3	Standard airtight PVC shutter	8580	26.8	7790	23.2	6980	19.9	5610	15.3	Eurus Lab
	VFE2-18-A3PM-CR-EIN	Direct-drive/0.37KW/IE5/EIN	1480	3	Standard airtight PVC shutter	8580	26.8	7790	23.2	6980	19.9	5610	15.3	Eurus Lab

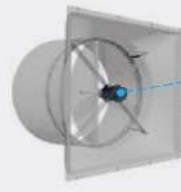
Technical Data (3 Phases, 200V ~ 240V, 60Hz)

56"	VFE2-56HF-B3PM-CR	Direct-drive/2.0KW/IE5	720	3	Standard airtight PVC shutter	70350	41.7	65160	33.9	58920	28.1	51530	23.0	Eurus Lab
	VFE2-56HF-B3PM-CBA	Direct-drive/2.0KW/IE5	720	3	Motorized airtight butterfly damper	70410	40.2	64420	27.5	57680	26.4	50160	21.6	Eurus Lab
	VFE2-56HF-B3PM-CBA-EIN	Direct-drive/2.0KW/IE5/EIN	720	3	Motorized airtight butterfly damper	70410	40.2	64420	27.5	57680	26.4	50160	21.6	Eurus Lab
	VFE2-56HO-B3PM-CR	Direct-drive/1.5KW/IE5	690	3	Standard airtight PVC shutter	65300	49.8	59200	38.8	52100	30.6	43100	23.8	Bess Lab#23092
	VFE2-56HO-B3PM-CBA	Direct-drive/1.5KW/IE5	690	3	Motorized airtight butterfly damper	64200	47.3	58200	37.3	51600	30.0	42500	23.3	Bess Lab#23093
	VFE2-56HO-B3PM-CBA-EIN	Direct-drive/1.5KW/IE5/EIN	690	3	Motorized airtight butterfly damper	64200	47.3	58200	37.3	51600	30.0	42500	23.3	Bess Lab#23093
	VFE2-56HE-B3PM-CR	Direct-drive/1.5KW/IE5	710	3	Standard airtight PVC shutter	60390	52.9	54660	39.7	47220	30.6	38720	23.6	Eurus Lab
	VFE2-56HE-B3PM-CBA	Direct-drive/1.5KW/IE5	710	3	Motorized airtight butterfly damper	59450	52.2	54000	41.0	47400	32.1	39900	25.3	Bess Lab#23094
	VFE2-56HE-B3PM-CBA-EIN	Direct-drive/1.5KW/IE5/EIN	710	3	Motorized airtight butterfly damper	59450	52.2	54000	41.0	47400	32.1	39900	25.3	Bess Lab#23094
50"	VFE2-50HO-B3PM-CR	Direct-drive/1.5KW/IE5	690	3	Standard airtight PVC shutter	57500	39.5	52900	32.8	47700	27.4	40200	22.5	Bess Lab#23086
	VFE2-50HO-B3PM-CBA	Direct-drive/1.5KW/IE5	690	3	Motorized airtight butterfly damper	56600	38.0	51300	31.0	45400	26.0	38000	21.2	Bess Lab#23087
	VFE2-50HO-B3PM-CBA-EIN	Direct-drive/1.5KW/IE5/EIN	690	3	Motorized airtight butterfly damper	56600	38.0	51300	31.0	45400	26.0	38000	21.2	Bess Lab#23087
36"	VFE2-36HO-B3PM-CR	Direct-drive/0.75KW/IE5	980	3	Standard airtight PVC shutter	28100	38.1	25800	31.9	23100	26.8	20700	22.7	Bess Lab#23100
	VFE2-36HO-B3PM-CBA	Direct-drive/0.75KW/IE5	980	3	Motorized airtight butterfly damper	27300	35.5	25100	29.9	22500	25.2	19500	21.0	Bess Lab#23081
	VFE2-36HO-B3PM-CBA-EIN	Direct-drive/0.75KW/IE5/EIN	980	3	Motorized airtight butterfly damper	27300	35.5	25100	29.9	22500	25.2	19500	21.0	Bess Lab#23081
24"	VFE2-24HO-B3PM-CR	Direct-drive/0.37KW/IE5	1000	6	Standard airtight PVC shutter	13400	38.5	12300	32.1	10900	26.0	8000	18.8	Bess Lab#23076
	VFE2-24HO-B3PM-CP	Direct-drive/0.37KW/IE5	1000	6	Powered airtight PVC shutter	13570	38.7	12390	32.4	10920	26.4	8040	19.3	Eurus Lab
	VFE2-24HO-B3PM-CP-EIN	Direct-drive/0.37KW/IE5/EIN	1000	6	Powered airtight PVC shutter	13570	38.7	12390	32.4	10920	26.4	8040	19.3	Eurus Lab



Fan Sizes (inch)	Wall opening (mm)	
	Width	Height
56"	1620	1620
50"	1455	1455
36"	1110	1110
24"	855	855

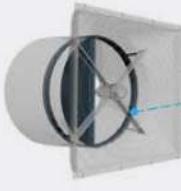
EC Line – Fan Using PMSM with Integrated Drive



PMSM motor with integrated drive

Applicable Models

Applicable for all models of EC line.



Motorized airtight butterfly damper

Applicable Models

VFE2-56HF-A3PM-CBA	VFE2-56HO-B3PM-CBA
VFE2-56HF-B3PM-CBA	VFE2-50HO-A3PM-CBA
VFE2-56HE-A3PM-CBA	VFE2-50HO-B3PM-CBA
VFE2-56HE-B3PM-CBA	VFE2-36HO-A3PM-CBA
VFE2-56HO-A3PM-CBA	VFE2-36HO-B3PM-CBA

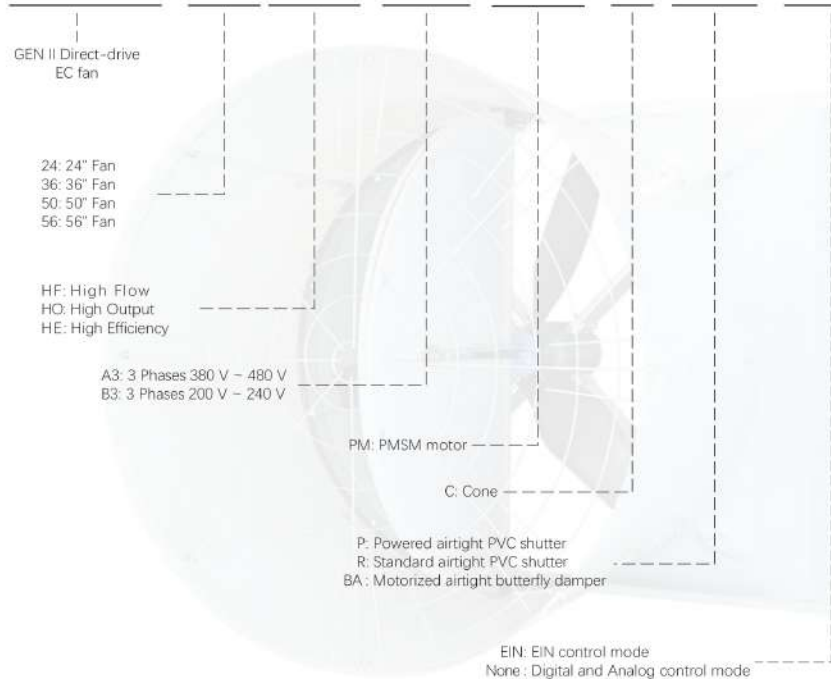


Powered airtight PVC shutter

Applicable Models

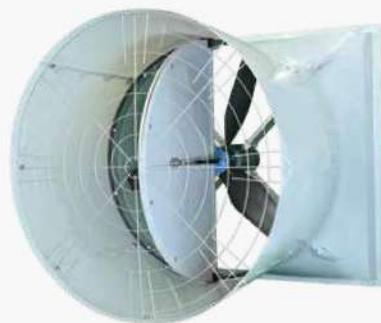
VFE2-24HO-A3PM-CP
VFE2-24HO-B3PM-CP

VFE2-56HO-A3 PM-C BA-EIN



Selection Instructions

- IE5 high efficiency PMSM with integrated drive as standard configuration for all fans.
- Motorized airtight butterfly damper as standard configuration for 56", 50" and 36" fans.
- Powered airtight PVC shutter as standard configuration for 24" fan.
- Standard airtight PVC shutter as optional for all fans.
- Manual/Auto motor controller and standard motor controller as optional for all fans in any control mode.
- Both the Manual/Auto motor controller and the standard motor controller can force-start the fan by external thermostat input signal in any control mode.
- Analog/Digital/EIN control modes available for all fans.



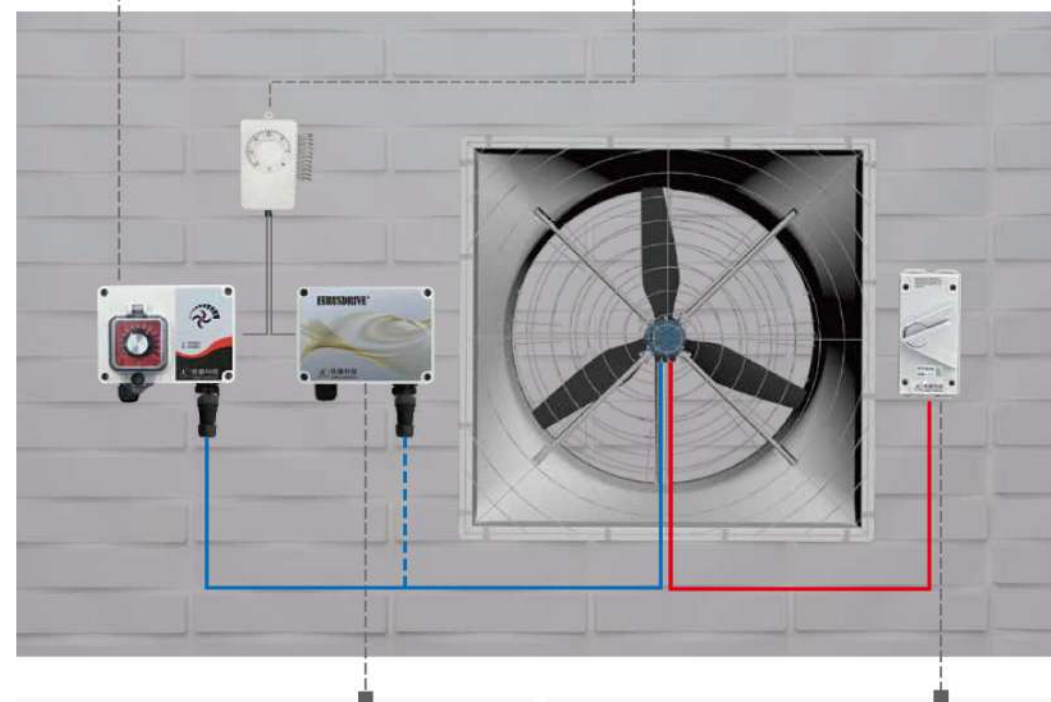
Manual/Auto motor controller

- Plug & Play control cable from motor to controller
- Manual/Auto control switching in any control mode
- Protection function of force-starting the fan with external thermostat input signal in any control mode
- Functions of Manual/Auto control switching and signal extension are available in the analog signal control mode.
- IP Class : IP66

Thermostat



- Mechanical self-sensing thermostat
- Adjustable temperature range is 0~40°C.
- With the Manual/Auto motor controller and the standard motor controller to force-start the fan with thermostat input signal



Standard motor controller

- Plug & Play control cable from motor to controller
- Protection function of force-starting the fan with external thermostat input signal in any control mode
- As slave controller of Manual/Auto motor controller to extend control signal
- IP Class : IP66

Isolating switch



- Compatible with safety regulations and easy for operating, maintenance and troubleshooting
- Part of distributed control system to improve system flexibility and reliability
- IP Class : IP66

R&D Facilities



About Eurus



Shanghai EURUS Agritech Co., Ltd., headquartered in Shanghai of China. Suzhou EURUS Agri-machinery Co., Ltd. is a wholly-owned subsidiary of Shanghai EURUS. As the factory and logistics center of EURUS, it is located in Suzhou, Jiangsu Province, China.

In recent years, EURUS has been dedicated to creating environmental control and ventilation solutions for the animal husbandry industry. Utilizing aerodynamics and proprietary control technologies, EURUS has developed a comprehensive range of high-performance, energy-efficient, and high-quality products for both domestic and international clients.

In close and strong collaboration with our customers, EURUS not only creates value through R&D innovation and the implementation of advanced technology, but also effectively realizes this value through our advanced quality and operational management systems.



■ 2019 Obtained National High-Tech Enterprise Certification

■ 2020 Took charge of drafting of the industry standard - T/CAAA

056-2020 Axial Fan for Livestock and Poultry Husbandry

■ 2021 Obtained ISO 9001 Certification