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AGRITECH



Authorized Dealer in Indonesia

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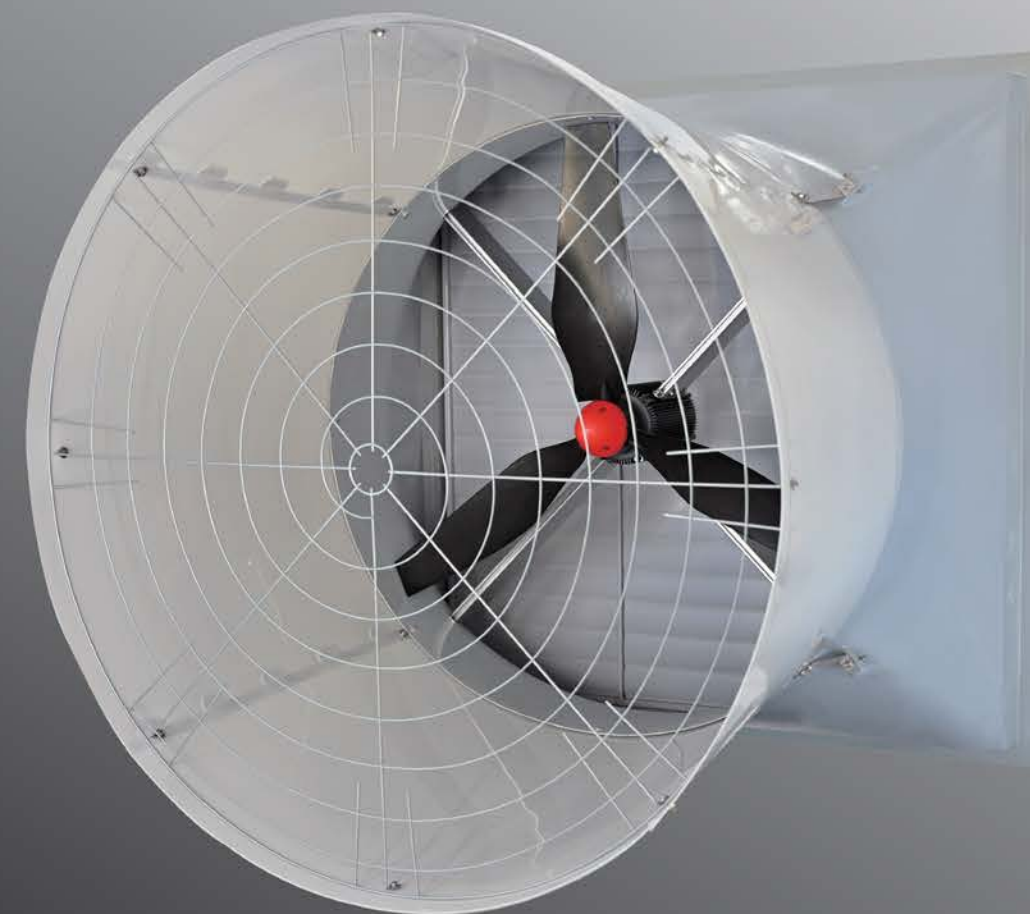
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Wall Fans

AC Line



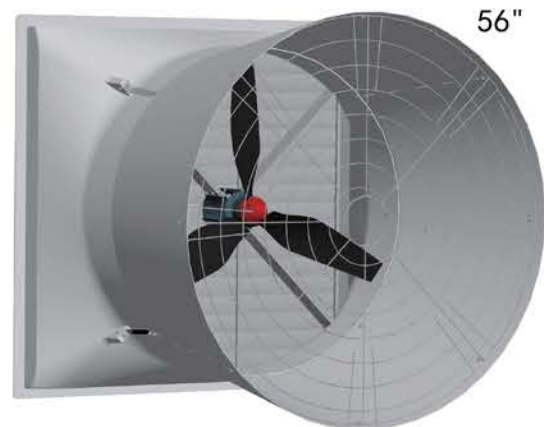
EurusFan®

EurusDrive®

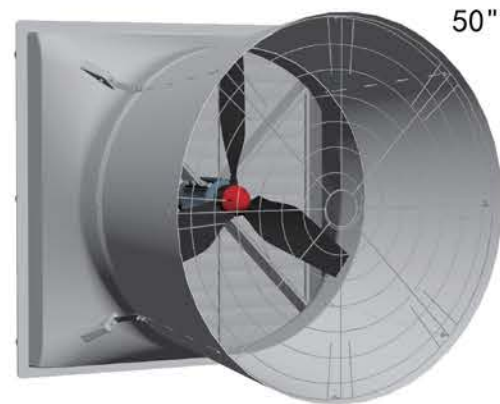
EurusIEC®



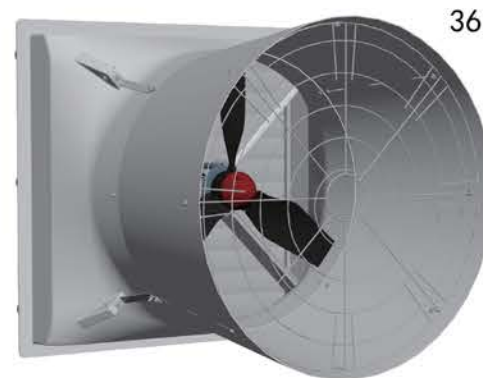
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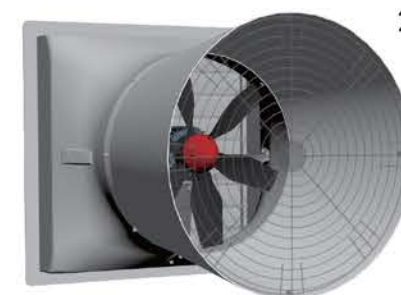
56"



50"



36"



24"



18"



High Performance

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



Energy Efficient

- IE3 AC motor
- 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



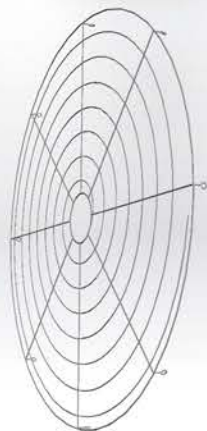
Innovative Application

- Variable speed fan with AC motor integrated VFD
- 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



Butterfly damper

Optimized aerodynamic performance

- Air - operated butterfly damper with low flow resistance
- The aerodynamic design of deflectors ensures damper fully opening.

High airtightness

- 360° seal design assures high air-tightness.
- 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

Precise fabrication and assembly

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

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 applica-



AC motor

High performance and high efficiency

- IE3 high efficiency AC motors
- Motor efficiency tested and certified by CNAS.
- High power factor of motor ensures low current and lowers cost of transformer and distribution.
- With increasing of static pressure, motor speed remains stable to ensure high airflow ratio of fan performance.

Durable and reliable

- Corrosion-resistant surface treatment
- NSK deep groove ball bearings with the high performance
- DDU sealing arrangement
- Motor insulation conforms to class F, and the actual motor temperature rise not exceed the limit of class B insulation to ensure motor durability.
- Vacuum dipping process applied to motor windings ensure higher insulation reliability, suitable for high humidity environment.
- Special insulation design applied to variable-frequency motor ensure operating frequency down to 15Hz.
- Special motor axial design with-



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



Fan housing

Optimized aerodynamic performance

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

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



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

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.



AC Line – Variable Speed Fan with Integrated VFD





AC motor with integrated VFD

Applicable Models

VFA2-36HO-A3IMDV-CR
VFA2-36HO-A3IM-DV-CBA
VFA2-36HE-A3IMDV-CR

VFA2-24HO-A3IMDV-CP
VFA2-24HE-A3IMDV-CP
VFA2-24HE-A3IMDV-CR
VFA2-18-A3IMDV-CR



Motorized airtight butterfly damper

Applicable Models

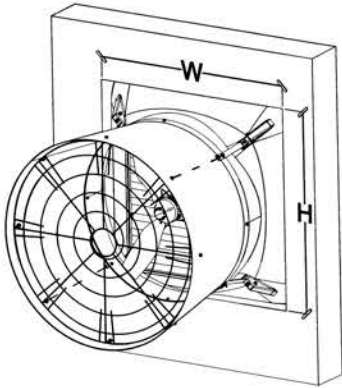
VFA2-36HO-A3IM-DV-CBA



Powered airtight PVC

Applicable Models

VFA2-24HO-A3IMDV-CP
VFA2-24HE-A3IMDV-CP

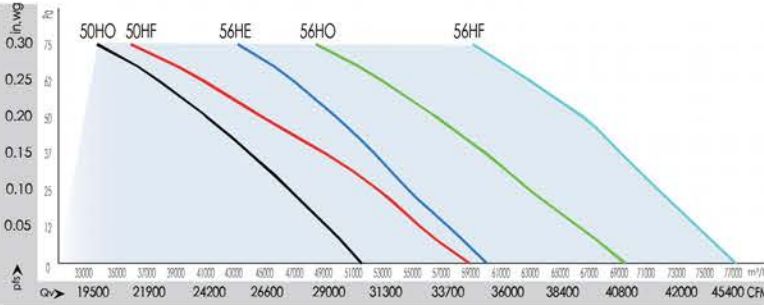
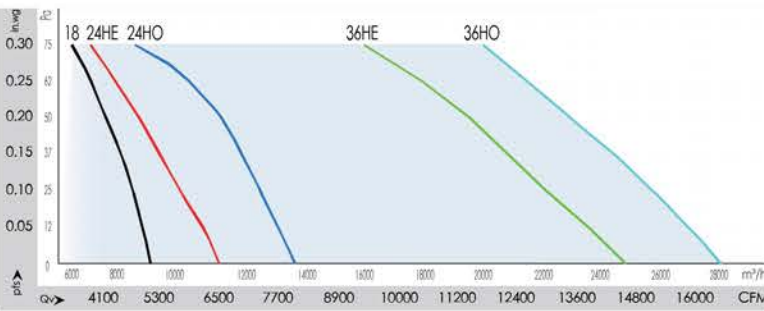


Fan Sizes (inch)	Wall opening (mm)	
	Width	Height
56"	1620	1620
50"	1455	1455
36"	1110	1110
24"	855	855
18"	635	635

Technical Data (3 Phases / 380V / 50Hz)

Size (inch)	Model	Drive	RPM	Blades	Shutter or damper	0 Pa		25Pa		50Pa		75Pa		Tested by
						QV M3/H	VER (M3/H)/W	QV M3/H	VER (M3/H)/W	QV M3/H	VER (M3/H)/W	QV M3/H	VER (M3/H)/W	
56"	VFA2-56HF-A3IM-CR	Direct-drive/2.2KW/8-pole/IE3	715	3	Standard airtight PVC shutter	76900*	31.5*	71600*	27.2*	66500	23.4	59000	20.1	Bess Lab #22073
	VFA2-56HF-A3IM-CBM	Direct-drive/2.2KW/8-pole/IE3	715	3	Air-operated airtight butterfly damper	77650	31.8	71750	26.9	64870	22.8	56160	19.1	Eurus Lab
	VFA2-56HO-A3IM-CR	Direct-drive/1.5KW/8-pole/IE3	710	3	Standard airtight PVC shutter	69300	38.6	62900	31.6	56600	26.4	48400	21.5	Bess Lab #22089
	VFA2-56HO-A3IM-CBM	Direct-drive/1.5KW/8-pole/IE3	705	3	Air-operated airtight butterfly damper	66900	37.4	60300	30.4	53200	25.0	44700	20.2	Bess Lab #24133
	VFA2-56HE-A3IM-CR	Direct-drive/1.1KW/8-pole/IE3	710	3	Standard airtight PVC shutter	58800	47.6	52700	37.5	44800	28.7	35900	22.0	Bess Lab #22090
	VFA2-56HE-A3IM-CBM	Direct-drive/1.1KW/8-pole/IE3	710	3	Air-operated airtight butterfly damper	60300	43.6	54100	34.5	47100	27.5	38700	21.6	Bess Lab #24134
50"	VFA2-50HF-A3IM-CR	Direct-drive/1.5KW/8-pole/IE3	710	3	Standard airtight PVC shutter	60000	33.4	54700	28.0	49800	24.2	43100	20.4	Bess Lab #22167
	VFA2-50HF-A3IM-CBM	Direct-drive/1.5KW/8-pole/IE3	705	3	Air-operated airtight butterfly damper	57300	32.8	52000	27.3	46400	23.2	38700	19.0	Bess Lab #24142
	VFA2-50HO-A3IM-CR	Direct-drive/1.1KW/8-pole/IE3	710	3	Standard airtight PVC shutter	51500	41.8	46700	34.1	41100	27.8	33600	21.8	Bess Lab #22166
	VFA2-50HO-A3IM-CBM	Direct-drive/1.1KW/8-pole/IE3	710	3	Air-operated airtight butterfly damper	49300	39.5	44700	32.5	39400	26.9	32100	21.0	Bess Lab #24141
	VFA2-36HO-A3IM-CR	Direct-drive/0.75KW/6-pole/IE3	965	3	Standard airtight PVC shutter	27900	35.9	25600	30.4	22800	25.5	19800	20.9	Bess Lab #22189
	VFA2-36HO-A3IM-CBM	Direct-drive/0.75KW/6-pole/IE3	965	3	Air-operated airtight butterfly damper	27120	32.7	24960	27.7	22220	23.5	18750	19.0	Eurus Lab
36"	VFA2-36HO-A3IMDV-CR	Direct-drive/0.75KW/6-pole/IE3 VFD970	965	3	Standard airtight PVC shutter	27880	34.4	25670	28.6	22930	23.9	19960	19.8	Eurus Lab
	VFA2-36HO-A3IMDV-CBA	Direct-drive/0.75KW/6-pole/IE3 VFD970	965	3	Motorized airtight butterfly damper	27400	33.2	25040	27.8	22240	23.1	19180	18.8	Eurus Lab
	VFA2-36HE-A3IM-CR	Direct-drive/0.55KW/6-pole/IE3	965	3	Standard airtight PVC shutter	24700	40.3	22000	32.5	19400	27.0	15800	21.4	Bess Lab #22190
	VFA2-36HE-A3IM-CBM	Direct-drive/0.55KW/6-pole/IE3	965	3	Air-operated airtight butterfly damper	23900	36.9	21470	30.3	18800	25.2	15010	19.4	Eurus Lab
	VFA2-36HE-A3IMDV-CR	Direct-drive/0.55KW/6-pole/IE3 VFD970	965	3	Standard airtight PVC shutter	24510	38.5	21670	31.1	19090	25.4	15510	19.9	Eurus Lab
	VFA2-36HE-A3IMDV-CBA	Direct-drive/0.55KW/6-pole/IE3 VFD970	965	3	Motorized airtight butterfly damper	24100	37.1	21630	30.6	18930	24.9	15510	19.7	Eurus Lab
24"	VFA2-24HO-A3IM-CR	Direct-drive/0.37KW/6-pole/IE3	960	6	Standard airtight PVC shutter	13500	33.5	12300	28.2	11000	23.2	8100	16.8	Bess Lab #22056
	VFA2-24HO-A3IMDV-CR	Direct-drive/0.37KW/6-pole/IE3 VFD980	960	6	Standard airtight PVC shutter	13540	32.2	12350	27.0	11030	22.3	7950	15.9	Eurus Lab
	VFA2-24HO-A3IMDV-CP	Direct-drive/0.37KW/6-pole/IE3 VFD980	960	6	Motorized airtight PVC shutter	13470	32.4	12310	27.3	11030	22.8	8540	17.3	Eurus Lab
	VFA2-24HE-A3IM-CR	Direct-drive/0.25KW/4-pole	1460	3	Standard airtight PVC shutter	10900	32.7	9600	27.4	8200	22.2	6600	17.8	Bess Lab #22054
	VFA2-24HE-A3IMDV-CR	Direct-drive/0.25KW/4-pole/IE3 VFD470	1460	3	Standard airtight PVC shutter	10780	32.0	9120	26.0	7600	21.7	5890	16.8	Eurus Lab
	VFA2-24HE-A3IMDV-CP	Direct-drive/0.25KW/4-pole/IE3 VFD470	1460	3	Motorized airtight PVC shutter	10870	32.3	9230	26.6	7790	22.3	6220	17.9	Eurus Lab
18"	VFA2-18-A3IM-CR	Direct-drive/0.25KW/4-pole	1460	3	Standard airtight PVC shutter	8600	27.5	8000	24.1	7100	20.4	5900	16.6	Bess Lab #22053
	VFA2-18-A3IMDV-CR	Direct-drive/0.25KW/4-pole/IE3 VFD475	1460	3	Standard airtight PVC shutter	8530	28.1	7760	24.4	6910	20.1	5480	15.5	Eurus Lab

* Data provided by Eurus Lab due to out of measurement range of Bess Lab.



Product Models

VFA2 - 56 HO - A3 IM - C R

GEN II
Direct-drive

18: 18" Fan
24: 24" Fan
36: 36" Fan
50: 50" Fan
56: 56" Fan

HF: High Flow
HO: High Output
HE: High Efficiency

A1: 1-Phase 220V/50Hz
A3: 3-Phase 380V/50Hz
B3: 3-Phase 230V/60Hz
C3: 3-Phase 380V/60Hz
D3: 3-Phase 200V/60Hz
E3: 3-Phase 200V/50Hz
F3: 3-Phase 415V/50Hz

IM: AC motor
IMDV: AC motor integrated VFD

C: Cone

P: Powered airtight PVC shutter
R: Standard airtight PVC shutter
BM: Air-operated airtight butterfly damper
BA: Motorized airtight butterfly damper

Selection Instructions:

- Standard airtight PVC shutter as standard configuration for all fans.
- Air-operated airtight butterfly damper as optional for 56", 50" and 36" fans.
- AC motor with integrated VFD as optional for 36" and 24" variable speed fans.
- Motorized airtight butterfly damper as optional for 36" variable speed fan with integrated VFD.
- Powered airtight PVC shutter as optional for 24" variable speed fan with integrated VFD.
- Manual/Auto motor controller and standard motor controller as optional for all variable speed fans with integrated VFD. Both the Manual/Auto motor controller and the standard motor controller can force-start the fan by external thermostat input



Disadvantages of Fan Using Standard AC Motor and Standard VFD

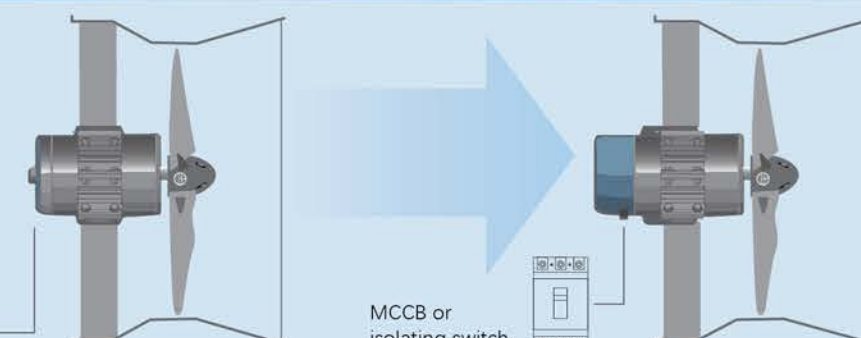
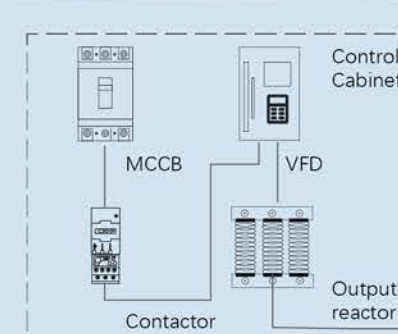
- The average lifespan of electrolytic capacitors used most common in VFDs is only a few years.
- If the variable speed motor and VFD are too far apart, the motor will be at higher risk of electrical damage.
- The VFD may generate EMI around the area
- along power supply cable from VFD to motor. The amount of heat generated by VFD, which installed in control cabinet, may shorten the service life of VFD if not properly heat dissipated.

- Using standard V/F control method, VFD cannot compensate for the loss of motor rotating speed, which will affect fan air flow with the increase of static pressure.
- The VFD setup is complicated and requires professionals to set up and operate.
- The on-site setting and commission job of VFD are complicated and the workload is large.

- The VFD installed in control cabinet requires distribution and protection circuits.
- The installation and commissioning work of VFD is complicated and needs high labor cost.
- Output reactor need to be installed if the variable speed motor and VFD are

Variable speed fan application of standard AC motor and standard VFD

Variable speed fan application of AC motor with integrated VFD



Advantages of Fan Using AC Motor with Integrated VFD


Reliability

- The average lifespan of film capacitor used in the integrated VFDs is several times that of electrolytic capacitors commonly used in standard VFDs.
- Insulation designs and materials for AC motors with integrated VFDs are designed for variable frequency use. The stator winding of motor is vacuum impregnated, which greatly improves the insulation performance and extends the life of the motor in a humid environment.
- The AC motors with integrated VFD has good cooling effect due to the airflow of fan.
- The AC motors with integrated VFD has low frequency operation protection to


Use & Maintenance

- The FOC control method of AC motors with integrated VFD maintain motor speed constant to ensure optimal fan airflow as static pressure increases.
- The setting parameters of the integrated VFD are optimized and set for different models of motors in factory without on-site setting and commissioning. Greatly reduces the workload and difficulty of installation, commissioning, use and maintenance.


Cost

- The AC motors with integrated VFD itself has multiple protections and doesn't require additional protection circuits.
- The AC motors with integrated VFD doesn't need control circuit and control cabinet. Greatly reduces the works of installation and commissioning due to the simplicity.
- The AC motors with integrated VFD

Accessories of AC Motor with Integrated VFD



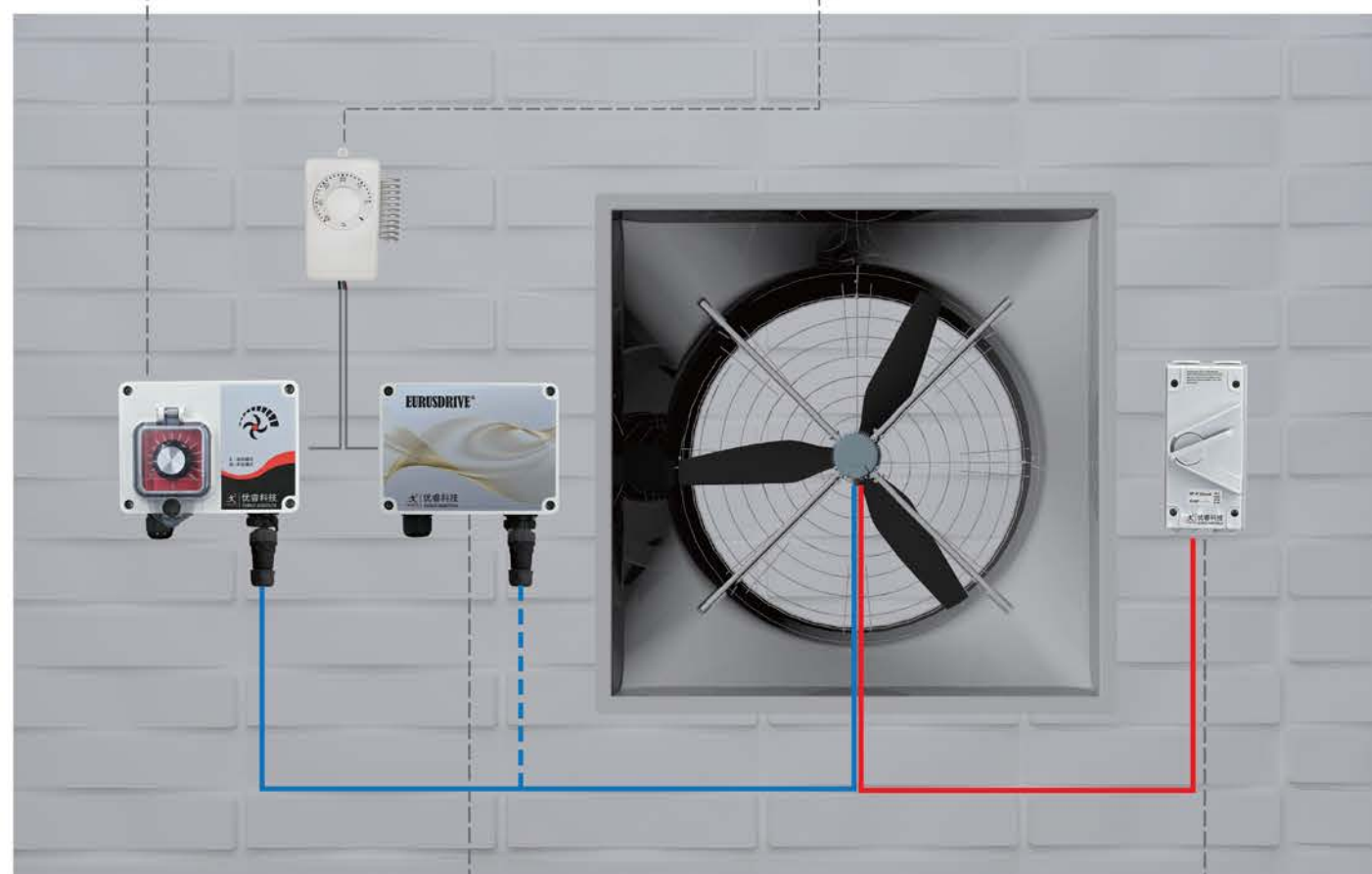
Manual/Auto motor controller

- 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



Thermostat

- Mechanical self-sensing thermostat
- Adjustable temperature range is 0~40°C.
- With the Manual/Auto motor controller and the standard motor



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



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