

Simple/Reliable/Green/Efficient



57" VFD PMSM CONE FAN

High-efficiency ventilation and cooling equipment designed for livestock houses, integrating high-performance materials and advanced design for superior airflow effects.



WEBSITE

 bigherdsman@bigherdsman.com

     **BIGHERDSMAN** 

PIG *PRODUCTION*

57" VFD Pmsm Cone Fan

- **Motor:** Equipped with a high-efficiency permanent magnet motor with an efficiency exceeding 91%, providing strong power while saving energy.
- **Speed Range:** Supports step-less speed regulation, with a range of 215 rpm to 750 rpm, suitable for various ventilation needs.
- **Wide Voltage Compatibility:** The motor operates stably within a voltage range of 340V to 460V, ensuring reliable performance.
- **Innovative Butterfly Blades:** Designed with butterfly blades and electric valves for excellent sealing and prevention of backflow.
- **Durable Fan Blades:** Made from nylon fiberglass-reinforced material, offering superior impact resistance and long-term durability.
- **Anti-Corrosion Casing:** The all-plastic casing is corrosion-resistant, rust-proof, and highly resistant to ageing.
- **Efficient Transmission:** Direct drive transmission eliminates the need for belt tension maintenance, reducing operational costs.



Product Advantage

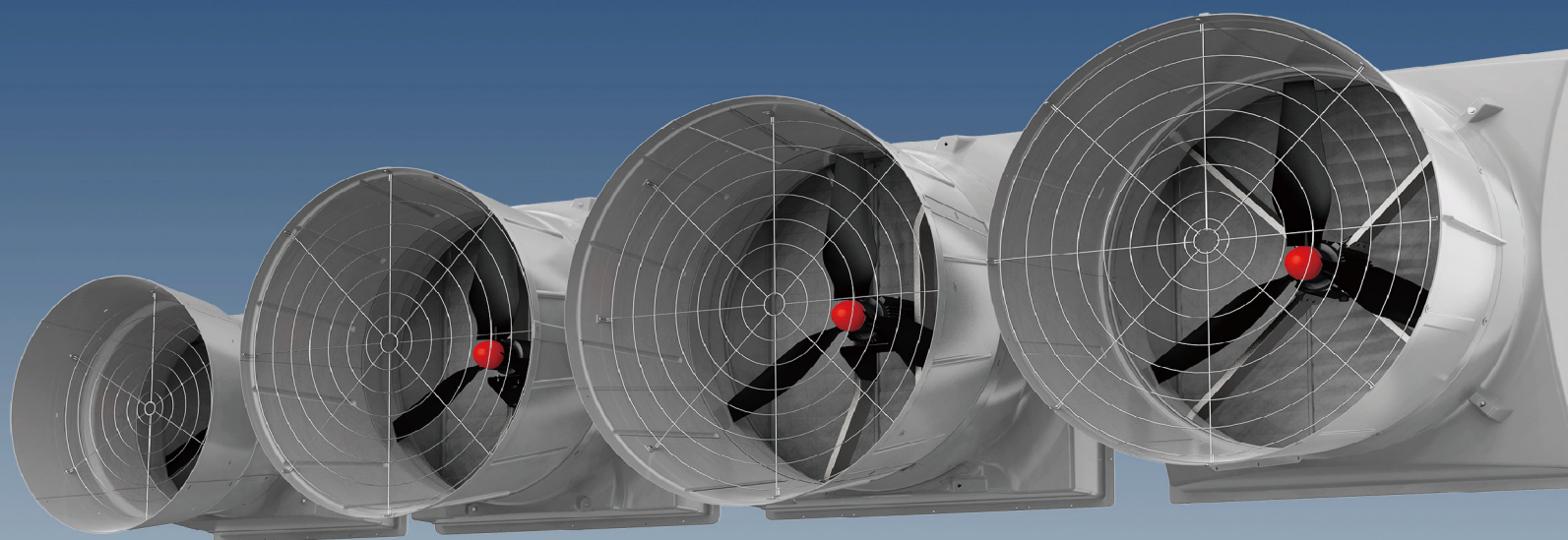
- **Efficient ventilation:** Significantly improves air flow and quickly reduces the temperature in the house.
- **Easy installation:** Snap-on insert structure design ensures fast and efficient assembly.
- **Safe and reliable:** stable operation, reduce the risk of equipment failure, and prolong the service life



University of Illinois Department of Agricultural and Biological Engineering Mechanical and Electrical Systems Lab Final Report									
Project Number:	20442	Version:	1.0	Station:	Customer design				
Test Date:	10/20/2018	Motor:	10T133M300-4T	Blade:	10T133M300-4T				
Model:	10T133M300-4T	Material:	10T133M300-4T	Blade:	10T133M300-4T				
Blade dia:	57"	Tip:	2.2'0"	Blade:	10T133M300-4T				
C-Frame dia:	22.5"	Tip:	2.2'0"	Blade:	10T133M300-4T				
Blade:	2	Tip:	2.2'0"	Blade:	10T133M300-4T				
Shape:	2	Tip:	2.2'0"	Blade:	10T133M300-4T				
Material:	2	Tip:	2.2'0"	Blade:	10T133M300-4T				
Connection:	4"	Tip:	2.2'0"	Blade:	10T133M300-4T				
Drive Shafts:	2	Tip:	2.2'0"	Blade:	10T133M300-4T				
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Exit dia:	2"	Tip:	2.2'0"	Blade:	10T133M300-4T				
Notes:	0 - 10 VDC control signal Mechanically controlled safety design: 120 VAC								
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大牧人
Big Herdsman



DIRECT SERIES FAN



More reliable



High performance



Maintenance free



Higher efficiency



WEBSITE

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     **BIGHERDSMAN** 

PIG **PRODUCTION**

Direct Series Of Fan Advantages

- The fan casing is made of glass fiber reinforced plastic, integrally molded, and the full surface and curved surface are integrated to reduce resistance and resist corrosion.
- The fan blade is made of PA6+glass fiber, and the aerodynamic optimization design of the blade has good aerodynamic performance, and the dynamic balance accuracy is within G6.3.
- The shutters are made of pvc material, and the air inlet area is designed with an airfoil-shaped curved wind guide surface to reduce resistance and improve air volume and energy efficiency ratio.
- The whole adopts DFA structure design process, aluminum alloy bracket, light weight, high strength, corrosion resistance, simple assembly.
- High-efficiency motor direct drive, high transmission efficiency, maintenance-free.



Product Parameters

Name	Air Flow m³/h								Bess LAB Report number
	0Pa	12Pa	25Pa	37Pa	50Pa	62Pa	75Pa	100Pa	
24inches (0.55kW)	12800	12500	12200	12000	11600	11200	10700	9700	24386
36inches (0.75kW)	26900	25800	24600	23300	22000	20500	19100	14100	22175
50inches (1.1kW)	48900	46700	44200	41600	38700	35700	32100	22900	BH Lab
50inches (1.5kW)	54700	52400	49800	47200	44000	40800	37500	29600	BH Lab
55inches (1.5kW)	62600	60100	57500	54400	51300	47800	43400	29700	22187
57inches (1.8kW)	69300	66600	63400	60300	56800	52700	48000	27000	22185
57inches (2.2kW)	/	/	68600	65300	61900	57900	53800	41800	22184

Name	Air Flow CFM								Bess LAB Report number
	0Pa	12Pa	25Pa	37Pa	50Pa	62Pa	75Pa	100Pa	
24inches (0.55kW)	7550	7360	7190	7050	6800	6600	6310	5680	24386
36inches (0.75kW)	15850	15200	14490	13680	12950	12080	11210	8320	22175
50inches (1.1kW)	28800	27500	26000	24500	22800	21000	18900	13500	BH Lab
50inches (1.5kW)	32200	30900	29300	27800	25900	24000	22100	17500	BH Lab
55inches (1.5kW)	36800	35400	33800	32000	30200	28100	25500	17500	22187
57inches (1.8kW)	40800	39200	37300	35500	33400	31000	28200	15900	22185
57inches (2.2kW)	/	/	40400	38400	36400	34100	31600	24600	22184



BIG HERDSMAN MACHINERY(JIAOZHOU) CO.,LTD

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Website: www.bigherdsman.com



SCAN QR CODE ON WECHAT

Simple/Reliable/Green/Efficient

大牧人
Big Herdsman



PERMANENT MAGNET SERIES FAN



Accurate speed regulation



Multiple protection



Low power consumption



Long durability



WEBSITE

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     **BIGHERDSMAN** 

PIG *PRODUCTION*

Product Parameters

Name	Parameters of permanent magnet fan									
	0Pa		25Pa		50Pa		75Pa		100Pa	
	Air Flow m³/h	VER (m³/h/W)	Air Flow m³/h	VER (m³/h/W)	Air Flow m³/h	VER (m³/h/W)	Air Flow m³/h	VER (m³/h/W)	Air Flow m³/h	VER (m³/h/W)
36" EC fiberglass fan	24800	34.4	22900	28.9	21000	24.9	18500	20.7		
50" EC fiberglass fan	53700	37.9	48800	30.5	43000	25	36500	20.1	27600	15.6
57" EC fiberglass fan	67400	37.5	61800	30.5	55700	24.9	49000	20.6	40900	17

Name	Parameters of permanent magnet fan									
	0Pa		25Pa		50Pa		75Pa		100Pa	
	Air Flow cfm	VER (cfm/W)	Air Flow cfm	VER (cfm/W)	Air Flow cfm	VER (cfm/W)	Air Flow cfm	VER (cfm/W)	Air Flow cfm	VER (cfm/W)
36" EC fiberglass fan	14590	20.2	13470	17	12360	14.7	10900	12.2		
50" EC fiberglass fan	31600	22.3	28700	18	25300	14.8	21500	12	16300	9
57" EC fiberglass fan	39700	22.1	36400	18	32800	14.7	28900	12.2	24100	10

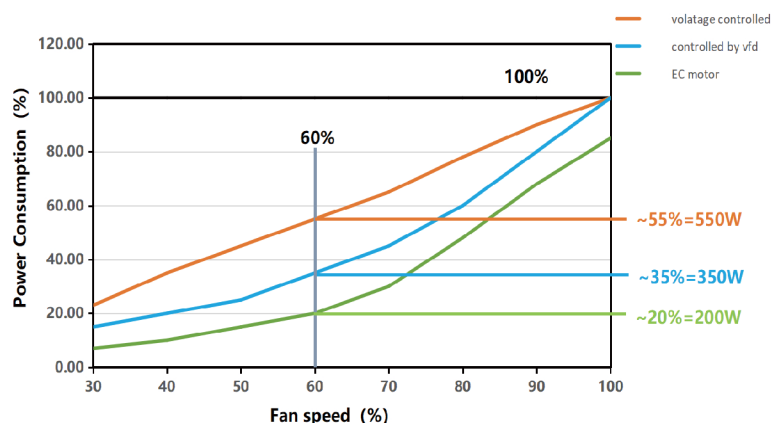
50" EC fiberglass fan											
r/min	0Pa		25Pa		37Pa		50Pa		75Pa		
	Air Flow m³/h	Power w	Air Flow m³/h	Power w	Air Flow m³/h	Power w	Air Flow m³/h	Power w	Air Flow m³/h	Power w	
700	53700	1418	48800	1600	46200	1651	43000	1712	36500	1798	
600	45800	910	39800	1043	36500	1083	32500	1118	23100	1128	
500	37800	547	30200	637	25700	664	19800	661			
400	29400	298	19400	350	9500	342	2100	378			
300	23400	139	3200	173	1600	185					

50" EC fiberglass fan											
r/min	0Pa		25Pa		37Pa		50Pa		75Pa		
	Air Flow cfm	Power w	Air Flow cfm	Power w	Air Flow cfm	Power w	Air Flow cfm	Power w	Air Flow cfm	Power w	
700	31600	1418	28700	1600	27200	1651	25300	1712	21500	1798	
600	27000	910	23400	1043	21500	1083	19200	1118	13600	1128	
500	22300	547	17800	637	15200	664	11700	661			
400	17300	298	11500	350	5600	342	1250	378			
300	13800	139	1890	173	950	185					

36" EC fiberglass fan											
r/min	0Pa		25Pa		37Pa		50Pa		75Pa		
	Air Flow m³/h	Power w	Air Flow m³/h	Power w	Air Flow m³/h	Power w	Air Flow m³/h	Power w	Air Flow m³/h	Power w	
960	24800	721	22900	791	22000	826	21000	843	18500	896	
850	21900	509	19800	561	18600	597	17300	614	13500	638	
750	19100	368	16300	420	15200	437	13400	443	7300	473	
650	16200	244	13200	279	10900	297	6900	297	2600	352	
550	13100	155	9000	191	4800	191	2800	226			

36" EC fiberglass fan											
r/min	0Pa		25Pa		37Pa		50Pa		75Pa		
	Air Flow cfm	Power w	Air Flow cfm	Power w	Air Flow cfm	Power w	Air Flow cfm	Power w	Air Flow cfm	Power w	
960	14590	721	13470	791	12930	826	12360	843	10900	896	
850	12900	509	11620	561	10960	597	10190	614	7940	638	
750	11240	368	9620	420	8970	437	7890	443	4290	473	
650	9530	244	7750	279	6440	297	4050	297	1560	352	
550	7690	155	5290	191	2850	191	1680	226			

Energy Saving



Case sharing: Our company contracted to build a group of customers 9000 self-breeding farm

	General fan	Permanent magnet fan	Cost saving
Number of fans	51 fan :990 sets 36 Fan :580 units	51 fan :1118 units	The number of fans was reduced by 452
Total investment cost	high	low	Equipment savings of about 1.5 million
Annual electricity consumption	high	low	Electricity savings of about 2.15 million

Through the comparison of the two schemes, the permanent magnet fan has obvious advantages in equipment cost and operation cost, and the customer finally adopts the permanent magnet fan scheme

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