



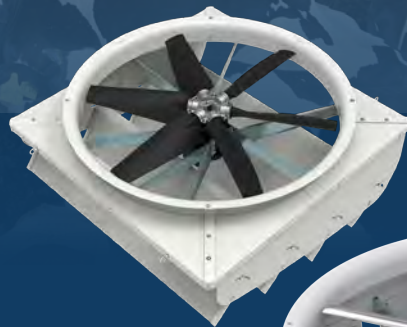
CYCLONE

The Cyclone fans had been designed initially almost 20 years ago to “break” the barrier where heavy cold air meets the lighter warm air in natural ventilated dairy barns. This problem occurs mainly in countries with freezing outside temperatures. In recent years worldwide studies in numerous dairy farms have proven that Cyclone fans are the best all year long in almost every dairy barn. Especially since it became clear, that only air velocities of 2 – 2,5 m/sec at cow level (approximately 1m above floor) provide the best cooling for your cows. Low airspeeds have proven to be less effective and still causing heat stress during warm days. Due to the special-shaped deflectors at the air discharge point of each Cyclone fan, the airflow is not only focused on getting the correct air velocity directly towards the individual cow, but also achieving this over a great distance. At the same time, this airflow is not only covering one side of the cow but covers the entire body of each cow while resting in their cubicles.

HOUSING

- Made with durable, and corrosion-free reinforcement fiber composite
- We added a thicker layer of U.V. protection on the outside surface for years of durability
- Both smooth surface to increase performance and to reduce the cleaning process with our SMC housing
- Airflow design maximizes the efficiency
- Directional air deflectors with a wide range of angle

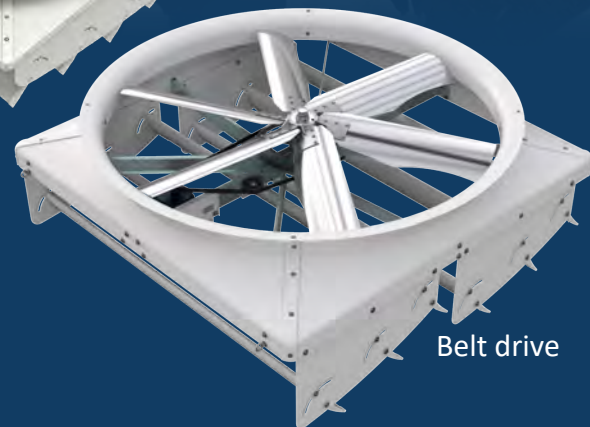
55" 72" 84"
140cm 183cm 213cm



Direct drive

IMPELLER

- Heavy-duty and high precision bearing assembly with double protection seal
- Shaft fixed on a quick base mount
- The blades are made with 2.5 to 5mm thick aluminum alloy
- For the direct drive model, durable composite nylon impeller comes standard
- Our belts are made with high efficient moulded notches
- Long belt can change easily around the paddle allowing
- Aluminum comes standard on belt drive fans and Nylon comes standard for direct drive fans



Belt drive

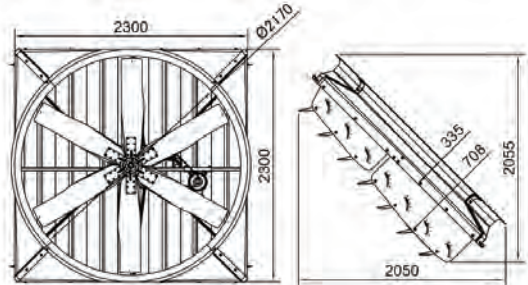
OPTIONS

- 1 or 3 phase motor
- Upgrade your motor with a powerful PMSM in belt drive or direct drive
- OSHA safety guard
- Thermal protection
- Variable frequency drive (VFD)
- 4 lines of high-pressure nozzle misting system integrate inside the deflector of the Cyclone
- Nylon blades standard with PMSM motor
- Different solutions are available to mount the Cyclone inside the barn: on steel post, building column or suspended from the ceiling with chains

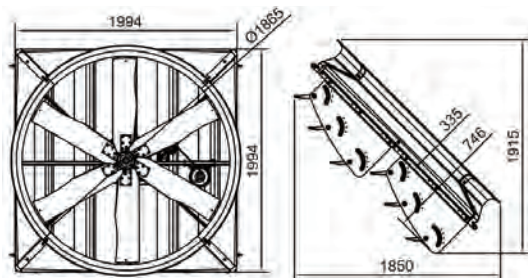
MOTOR & SUPPORT

- Our high-efficiency motors are fully enclosed (IP55)
- All our motors are designed and rated for years of trouble-free operation
- Every motor is quiet during operation on all range of speed
- Built with a central steel support beam, this design provides strong vertical support that aligns the propeller at the center of the orifice for maximum performance
- The motor is fixed on a slider motor base for quick attachment (belt drive)

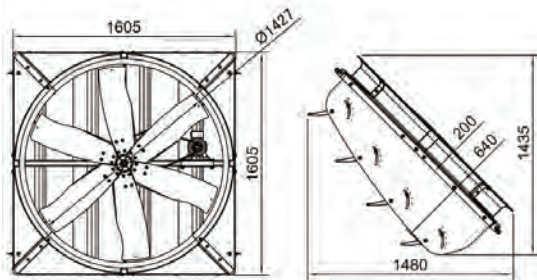
84"



72"



55"



General info	84"	72"	55"
RPM propeller	350(BD) or 600(DD)	350(BD) or 600(DD)	400(BD) or 600(DD)
Speed	1 or VAR with control	1 or VAR with control	1 or VAR with control
Drive	Belt or Direct drive		
Blades material	Aluminum or Nylon		
Application	Recirculation		
Blade Qty	6		

Fan info	84"		72"		55"	
	Direct	Belt	Direct	Belt	Direct	Belt
Airflow rate (m ³ /h)	115 426	113 300	89 704	84 039	54 922	44 863
Efficacy (W/1000 m ³ /h)	62.65	26.53	28.66	28.49	29.22	26.68
Thrust (lbf)	74.8	71.11	60.32	53.70	37.85	25.17
Thrust Eff. (lbs/kW)	19.85	23.66	23.46	22.43	23.58	21.02
Airflow rate (CFM)	67 898	66 647	52 767	49 435	32 307	26 390
Efficacy (CFM/W)	18	22.17	20.52	20.65	20.13	22.05
Size (WxDxH)	230x230x100 cm		200x200x100 cm		160x160x80 cm	
Minimum ceiling height	7.5m		6m		5m	
Weight (Kg)	230(BD&DD)		185(BD) or 176(DD)		80(BD) or 99(DD)	
Guard mat	Zinc & powder coat					
OSHA protection	Option					
Power (kW)	4.0 (BD&DD)		2.2(BD) or 3.0(DD)		1.1(BD) or 1.5(DD)	
Phases	3		1 or 3		1 or 3	
Volt	200-230-380-400-415-460-600					
Hz	50/60					
Motor enclosure	IP55					

Other configuration are available.

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Due to our continual effort to provide better products and services, literature, products, performance data and price may change without notice.



36"

MINI CYCLONE

Our **MINI CYCLONE** provides energy-efficient and cost-effective ways of mixing air for a large number of applications and has proven to be the ideal solution for dairy barns. This fan offers superior performance and efficiency. The deflector direct the air for superior performance while optimizing air velocity and coverage.

Improve air quality, air circulation and distribution easily with our 36" Cyclone!

HOUSING

- Made with high density reinforcement fiber composite, ensuring housing is durable, sturdy, and corrosion-free
- U.V. protection on composite surface
- Extra layer of resin inside to give smooth surface for easy maintenance and cleaning
- Air flow design to maximize the efficiency

IMPELLER

- 3 blades are made with nylon PA66 + fiber reinforcement
- Impeller pitch and motor are closely matched to provide maximum air flow output and best efficiency

MOTOR

- Standard motors are totally enclosed, high efficiency
- All motors are designed and rated for years of trouble-free operation
- Quiet operation

GUARD

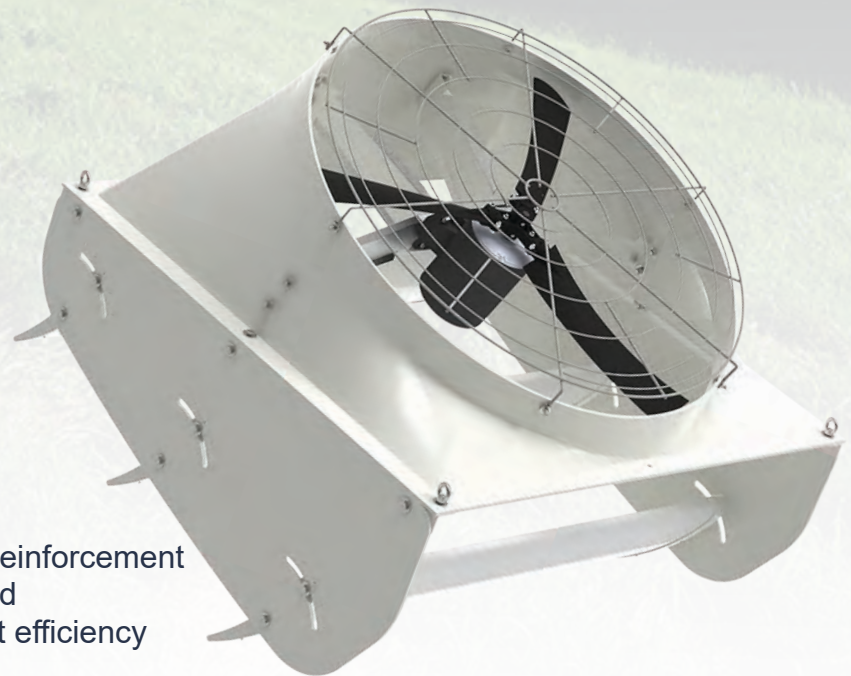
- Heavy gauge Zinc galvanized wire and power coating finishing prevent corrosion for years use

SUPPORT & FRAME

- Built in central steel support fits inside housing and provides a strong support that keep impeller centered for maximum performance
- Stainless steel hardware #304
- Multiple installation configurations available

OPTIONAL ACCESSORIES

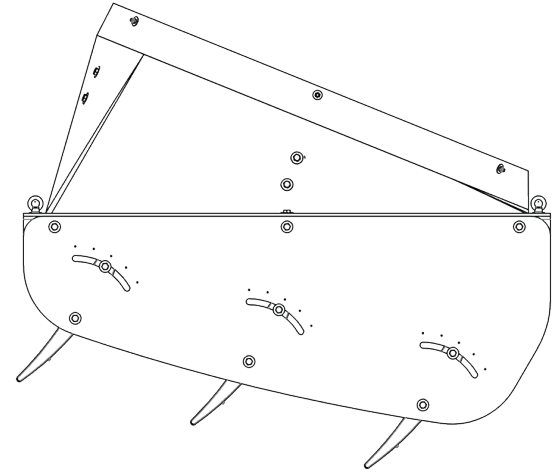
- One-phase or three-phase motor
- OSHA safety guard
- Chain kit to hang under ceiling
- Other configuration available on request



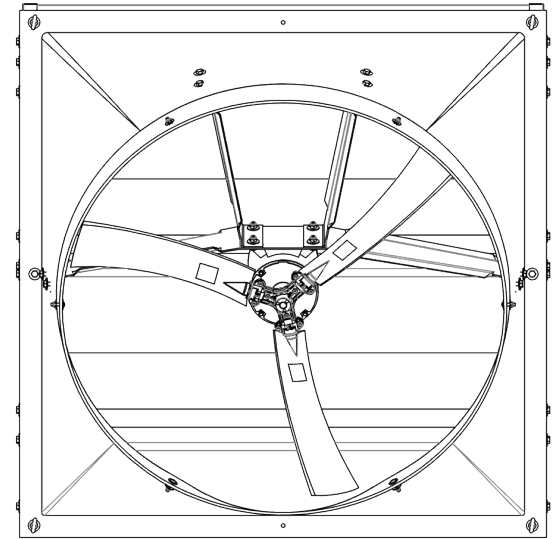
Configurations / Size / Performance Data

General Info	Size 36"
Phases	3~
Hz	60Hz
Volts	230 / 460
Poles	8
Nominal Blade Size	36" / 910mm
Blade Quantity	3x Nylon
Impeller RPM	857
Airflow (CFM) [m³/h]	9,117 [15,489]
Input Power (W)	454
Amps	1.05
Power Factor	0.54
FLA	2.60 / 1.30
Motor Certification	cCSAul
Frame	NEMA 56
Motor Specification	TEAO
Protection Class	IP54
Ambiant Temperature Rating	104°F / 40°C
Thermal Protection	No
Insulation Class	F
Nominal Power	1/2HP - 0.375kW
Service Factor	1.0
Weight	95 lbs / 43 kg
Guard	Steel + Powder Coating
OSHA Protection	Optional
Tested according to ANSI/AMCA standard 230-15 Fig #1	

39-1/2"
1004mm



43-5/16"
1100mm



43-5/16" / 1100mm

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EXHAUST FAN

Agro Air Exhaust fan has proven over many years their quality in numerous farms all over the world. Not only by establishing with international accepted technical test and safety certificates, but also in being a very durable product providing a perfect solution with very low operational costs.

In most farms, exchanging air is a must-have to keep the animals alive. Toxic gasses like NH₃, CO₂ must be removed and fresh air must be introduced. This will allow controlling your incoming air and will also ensure that the air exchange is at the right requirements of your livestock. We offer a wide variety of -series to answer every farm's needs.

HOUSING

- Made with durable and corrosion-free reinforcement fiber composite
- We added a thicker layer of U.V. protection on the composite surface
- Extra layer of resin inside to give a smooth surface for easy maintenance and cleaning
- Airflow design to maximize the efficiency
- Slanted design projects away moisture from outside building
- Condensation flows down outside keeping walls clean and dry during wet seasons
- Inside mounting is flush, eliminating obstruction along walkways
- Aerodynamic housing tunnel and cone encourages free airflow

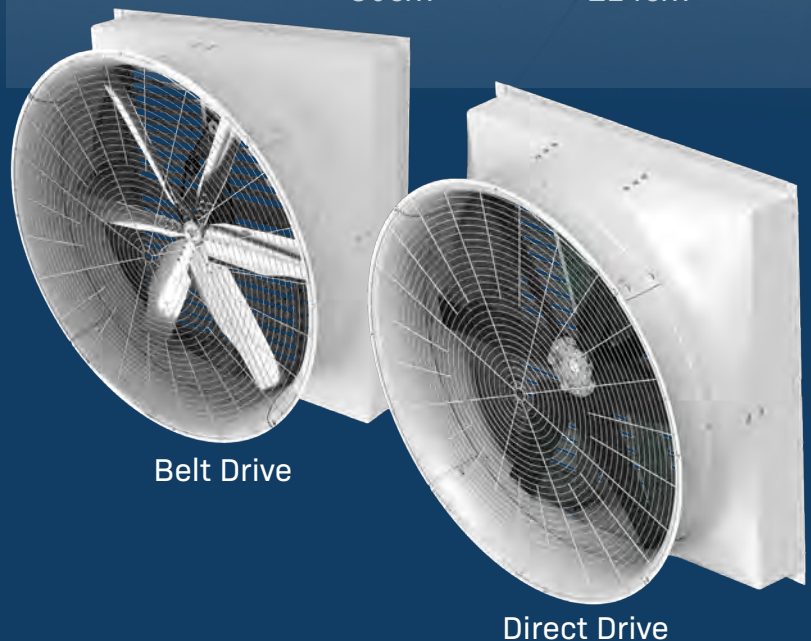
PROPELLER

- Heavy-duty and high precision bearing assembly with double protection seal greased
- Shaft fix on a quick base mount
- Blades are made with 5mm thick aluminum alloy comes standard with belt drive, or durable nylon comes standard with direct drive
- Our belts are high efficient moulded notch model XPZ
- Inner belt tensioned are standard with large diameter pulley
- Long belt can be changed easily around the propellers

MOTOR & SUPPORT

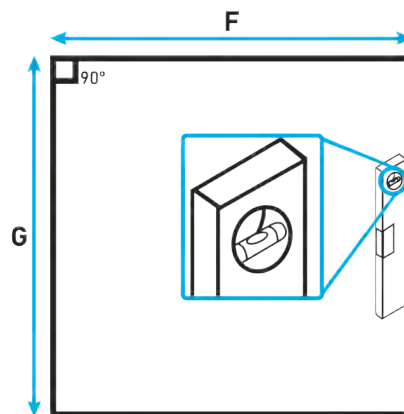
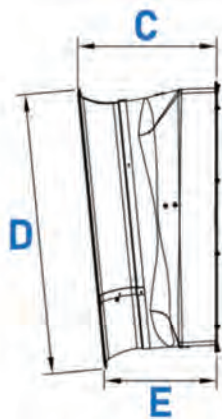
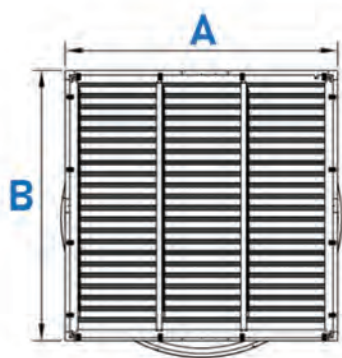
- Built-in central beam steel support, fixed inside the housing and attached on top and bottom of wall building. This design provides strong vertical support that aligns the propeller centred in the orifice for maximum performance
- Motors are fixed on a slider base with a quick-attach
- Stainless steel hardware #304

12'' to 84''
30cm 214cm



OPTIONS

- Change your blades to aluminum or nylon
- Zinc galvanized wire and powder coating finish to prevent corrosion
- Motor 1 or 3 phase
- OSHA safety guard
- Thermal protection
- Variable frequency drive (VFD)
- Winter board inserts (replacing the shutter for winter, if the fan is not required to operate)
- Long cone/ Short cone/ No cone (guards required)
- Aluminum shutter vanes
- Wire guard intake (no shutter) - for all year long operating fan



Recommended Wall Opening (RSO)

Model	A	B	C	D	E	F	G
12"	599mm (24")	588mm (23")	707mm (28")	486mm (19")	686mm (27")	508mm (20")	508mm (20")
18"	740mm (29")	751mm (30")	700mm (28")	638mm (25")	671mm (26")	635mm (25")	635mm (25")
24"	900mm (35")	889mm (35")	703mm (28")	797mm (31")	668mm (26")	787mm (31")	787mm (31")
36"	1208mm (48")	1197mm (47")	1070mm (42")	1270mm (50")	846mm (33")	1118mm (44")	1118mm (44")
50"	1474mm (58")	1563mm (62")	910mm (36")	1560mm (61")	846mm (33")	1380mm (54")	1380mm (54")
55"	1585mm (62")	1604mm (63")	915mm (36")	1691mm (67")	846mm (33")	1500mm (59")	1520mm (60")
60"	1746mm (69")	1735mm (69")	1060mm (42")	1818mm (72")	846mm (33")	1650mm (65")	1650mm (65")
72"	2074mm (82")	2063mm (82")	1060mm (42")	2140mm (85")	860mm (34")	1970mm (78")	1970mm (78")
84"	2300mm (91")	2300mm (91")	1060mm (42")	2600mm (103")	860mm (34")	2210mm (88")	2190mm (87")



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BASKET FANS

Our **BASKET FAN** provides uniform micro-climate in most livestock applications. We are combining optimal air movement over a wide area with very low noise production and energy consumption. Basket fans are an ideal choice for a variety of applications on both small and large farms.

Available in 24" and 36"



GUARD HOUSING

- Heavy wire and power coating finishing prevent corrosion for years of use
- Air flow design to maximize the efficiency

IMPELLER

- Blades are made with nylon PA66 + fiber reinforcement
- Impeller pitch and motor are closely matched to provide maximum air flow output and best efficiency

MOTOR

- Standard motors are totally enclosed, high efficiency
- All motors are designed and rated for years of trouble free operation
- Quiet operation

SUPPORT & FRAME

- Guard fixed with 4 bolts that provide a strong support that aligns the impeller centered in the guard orifice for maximum performance
- The yoke mount motor is fix on strong tube steel bracket
- Zinc coating hardware
- Different support configurations are available

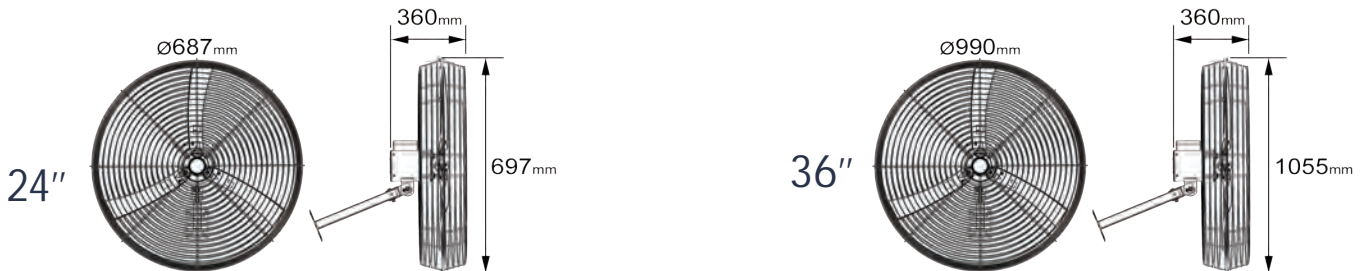
OPTIONAL ACCESSORIES

- One-phase or three-phase motor
- OSHA safety guard
- Swivel mounting bracket for mounting to ceiling, post, wall
- Other configuration available on request

Configurations / Size / Performance Data

General Info	Size 24"		Size 36"			
	1		1		3	
Phases	1		1		3	
Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Volts	230	230	220 - 240	230	400	230 / 460
Poles	4	4	6	8	6	8
Nominal Blade Size	24" / 610mm		36" / 910mm			
Blade Quantity	3x Nylon		3x Nylon			
Impeller RPM	1,388	1,645	926	843	924	849
Airflow (CFM) [m³/h]	4,852 [8,243]	5,345 [9,081]	8,746 [14,859]	9,252 [15,719]	8,821 [14,987]	9,310 [15,818]
Input Power (W)	489	565	434	575	434	495
Amps	2.92	2.56	1.93	2.82	1.24	1.08
Power Factor	0.72	0.95	0.97	0.88	0.51	0.57
FLA	3.01	2.80	2.10	3.09	1.30	2.60 / 1.30
Motor Certification	CE	cCSAul	CE	cCSAul	CE	cCSAul
Frame	NEMA 56		NEMA 56			
Motor Specification	TEAO		TEAO			
Protection Class	IP54		IP54			
Ambiant Temperature Rating	104°F / 40°C		104°F / 40°C			
Thermal Protection	Yes		Yes		No	
Insulation Class	F		F			
Nominal Power	1/2HP - 0.375kW		1/2HP - 0.375kW			
Service Factor	1.0		1.0			
Weight	40 lbs / 18kg		51 lbs / 23kg			
Guard	Steel + Powder Coating		Steel + Powder Coating			
OSHA Protection	Optional		Optional			

Tested according to ANSI/AMCA standard 230-15 Fig #1



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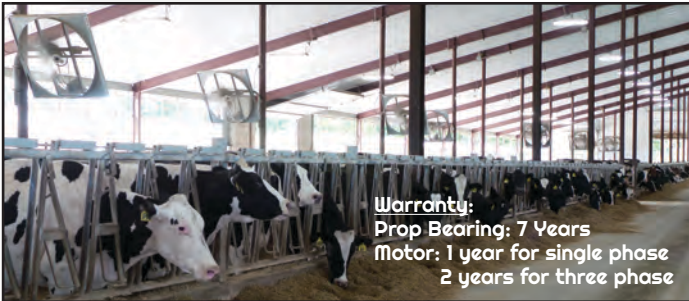
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- 6 blade panel fan, 52" diameter galvanized blades
- 1 HP, single or three phase motor
- Quiet, smooth operation
- Belt can be changed without removing fan blades
- Equipped with automatic belt tensioner



"The Agro-Breeze is very well built and produces ample air flow. They were easy to install and maintenance will be a breeze!"



Warranty:
Prop Bearing: 7 Years
Motor: 1 year for single phase
2 years for three phase

Agro-Breeze (ADF53) Data									AMCA 230/12 *official Bess Labs
Model	Bess Labs Test Number	Blade Diameter	Orifice	Voltage	Input Power (kW)	Thrust (lbf)	Thrust Efficiency Ratio (lbf/kW)	Prop. RPM	Airflow (thrust cfm)
ADF53-3L	c16046	52.1"	52.6"	230/400 V 3ph	.918	21.93	23.9	401	22,600
ADF53-1L	c16045	52.1"	52.6"	230 V 1ph	.912	21.3	23.4	386	22,200



KEEPING COWS COOL!

THAT'S WHAT WE DO.





36"

PANEL FAN

Our **PANEL FAN** provides energy-efficient and cost-effective ways for mixing air for a large number of application with the convenience of fans shipped completely assembled.

Panel fans are the ideal solution for livestock and poultry applications. This fan offers superior performance and efficiency. The small venturi housing shape inputs and outputs air for optimum performance. Air velocity and distance coverage are optimized.

By reducing heat stress and improving air quality, panel fans also increase the air velocity in dairy, poultry, swine, green-house and industrial environments. Air circulation and distribution can be remarkably improved by this easily-installed panel fan.

HOUSING

- Made with high density reinforcement fiber composite, ensuring housing is durable, sturdy, and corrosion-free
- U.V. protection on composite surface
- Extra layer of resin inside to give smooth surface for easy maintenance and cleaning
- Air flow design to maximize the efficiency
- Deep aerodynamic venturi housing encourages free air flow

IMPELLER

- 3 blades are made with nylon PA66 + fiber reinforcement
- Impeller pitch and motor are closely matched to provide maximum air flow output and best efficiency

MOTOR

- Standard motors are totally enclosed, high efficiency
- All motors are designed and rated for years of trouble-free operation
- Quiet operation

SUPPORT & FRAME

- Built in central X steel support which provides strong support that keeps the impeller centered in the orifice for maximum performance
- Stainless steel hardware #304
- Can be chained or mounted on a bracket

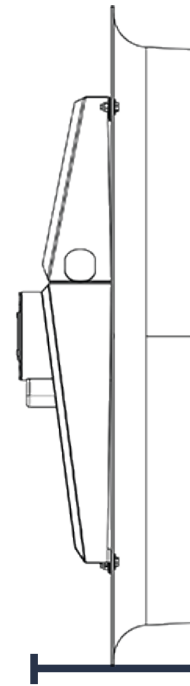
OPTIONAL ACCESSORIES

- One-phase or three-phase motor
- OSHA safety guard
- Swivel mounting bracket for mounting to ceiling, post or wall
- Other configuration available on request

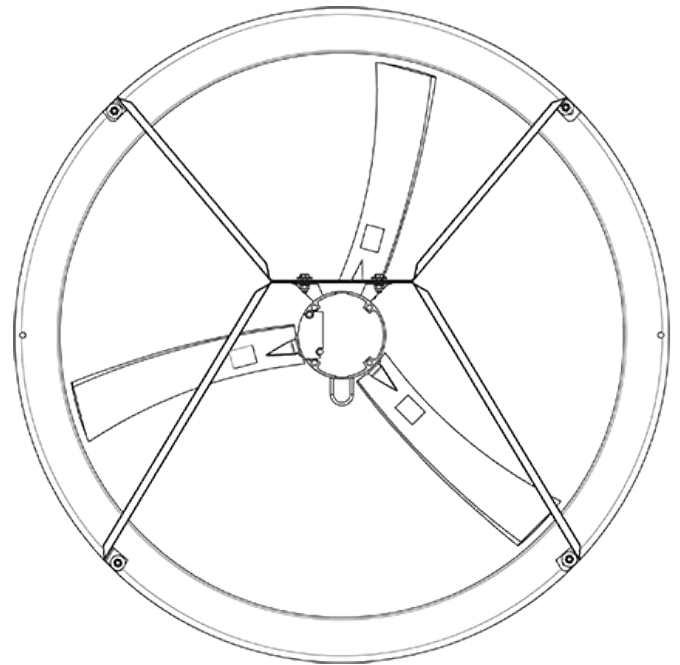


Configurations / Size / Performance Data

General Info	Size 36"
Phases	1~
Hz	60Hz
Volts	230
Poles	8
Nominal Blade Size	36" / 910mm
Blade Quantity	3x Nylon
Impeller RPM	859
Airflow (CFM) [m ³ /h]	10,975 [18,647]
Input Power (W)	537
Amps	2.62
Power Factor	0.88
FLA	3.09
Motor Certification	cCSAul
Frame	NEMA 56
Motor Specification	TEAO
Protection Class	IP54
Ambiant Temperature Rating	104°F / 40°C
Thermal Protection	Yes
Insulation Class	F
Nominal Power	1/2HP - 0.375kW
Service Factor	1.0
Weight	46 lbs / 21kg
Guard	Optional
Tested according to ANSI/AMCA standard 230-15 Fig #1	



11-5/8" / 295mm



42-15/16" / 1090mm

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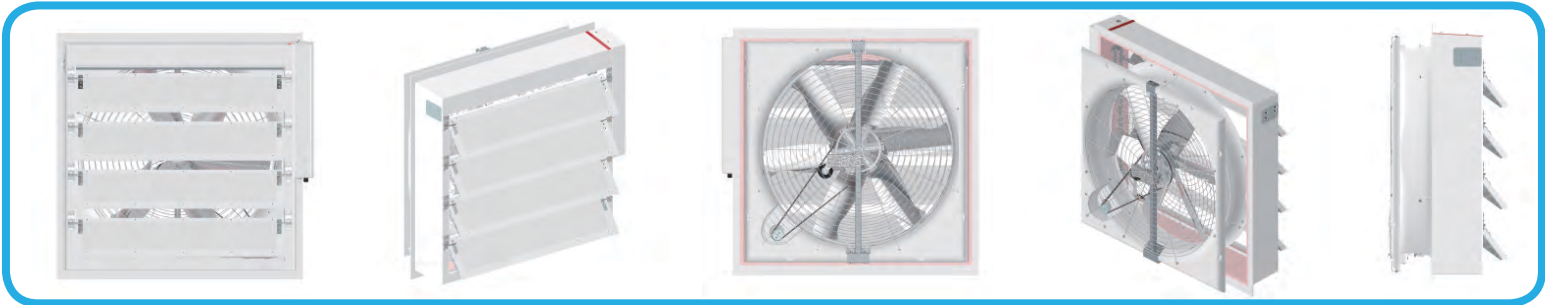
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PRESSURE FANS

- Available in 50" and 72"
- 1 PH and 3 PH available
- Energy efficient and cost effective air intake fan
- Ideal for ventilating milking parlor
- High density, durable housing
- Belt can be changed without removing blades



POWERED SHUTTER:

- Insulated outside shutters are powered by an actuator with potentiometer feedback
 - 1 phase, 220v needed to run actuator
- Each insulated door has a tight seal to prevent infiltration of air back into building



72" Pressure Fan - tested by AgroAir Dynamics using AMCA standards	
Airflow (CFM) @ 0.05" SP = 41,294 CFM	Airflow (CFM) @ 0.10" SP = 40,235 CFM
50" Pressure Fan - tested by AgroAir Dynamics using AMCA standards	
Airflow (CFM) @ 0.05" SP = 19,906 CFM	Airflow (CFM) @ 0.10" SP = 18,847 CFM

*AgroAir Dynamics continues to strive for the most accurate test data available. Information stated above is not certified. As additional independent accredited lab results become available we may need to revise

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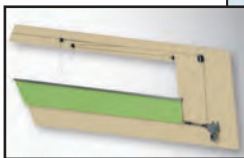
SINGLE / DOUBLE ROLL-UP CURTAIN

- 16 oz. super clear rip-stop material
- Straps or wind pipes
 - Galvanized pipe with white poly sleeves
- Galvanized drive and end-pocket doors
- Environmental controls available
 - Wind, temperature and rain controls
- Electric or manual drive options



SINGLE / DOUBLE ROLL-DOWN CURTAIN

- 16 oz. super clear rip-stop material
- Straps or wind pipes
 - Galvanized pipe with white poly sleeves
- Environmental controls available
 - Wind, temperature and rain controls
- LOCK drives - electric or manual



Single roll-down curtain



Double roll-down curtain



KEEPING COWS COOL!

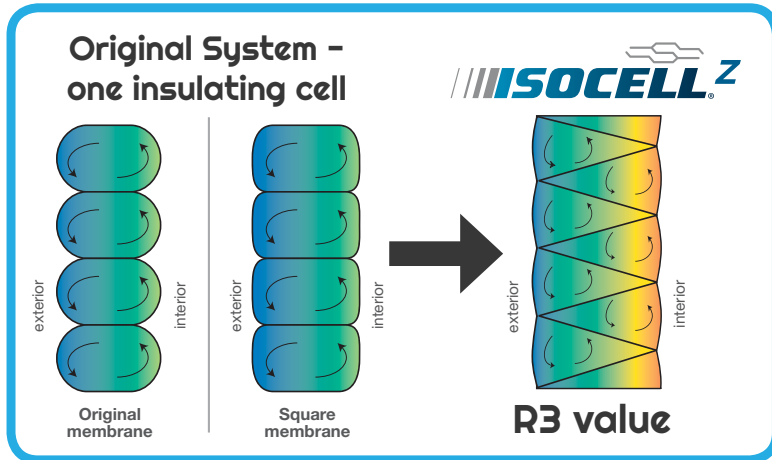
THAT'S WHAT WE DO.



AIR CURTAINS

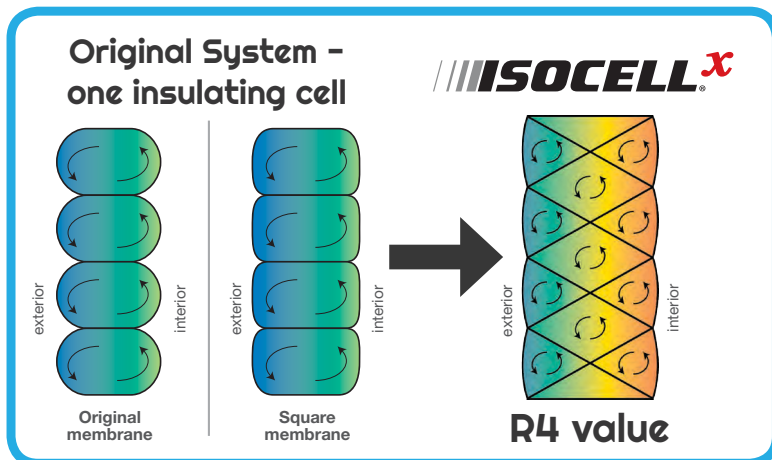
ISOCELL Z-WALL

- Nearly 2X the insulating power of any other system on the market!
- Combines transparency, insulation and rigidity
- Minimizes heat transfer of colder external air and warmer interior air cells
- Continuous opening up to 10' or double opening up to 20'



ISOCELL X-WALL

- Nearly 3X the insulating power of any other system on the market!
- Eliminates ice formation
- Improved lowering of the curtain due to X design
- Continuous opening up to 10' or double opening up to 20'



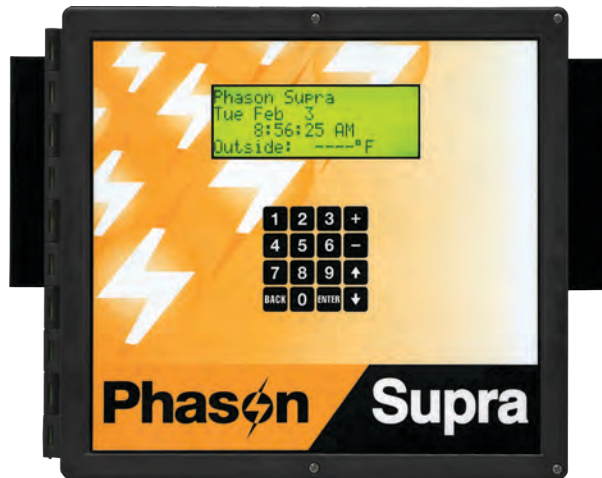
KEEPING COWS COOL!

THAT'S WHAT WE DO.



CONTROLLERS

- Tunnel ventilation or cross ventilation, we have the controls you need!
- Temperature probe zoning and averaging depending on your design
- Variable controls for all of your VFD's
- Controls programmed and back-up with in-house design and tech support
- Advanced controls for the complete solution
- Custom controls built to your needs



1 year warranty on all VFD's and controls (excludes labor)

VFD'S

- NEMA 4X (IP65) indoor rated
 - Disconnects available
 - 0-10 vdc speed controls available
 - Filtered and non-filtered
- All size VFD's available to fit your needs



KEEPING COWS COOL!

THAT'S WHAT WE DO.

