

# TOPCOOL™ CYCLONE™

The Cyclone fans had been originally designed 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 very cold 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 air speeds 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 air flow 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 high density, durable, sturdy, and corrosion free reinforcement fiber composite
- We added a thicker layer of U.V. protection on composite surface for years of durability
- Extra layer of resin inside to give a smooth surface for easy maintenance and perfect cleaning.
- Air flow design maximizes the efficiency
- 6 directional air fold deflectors

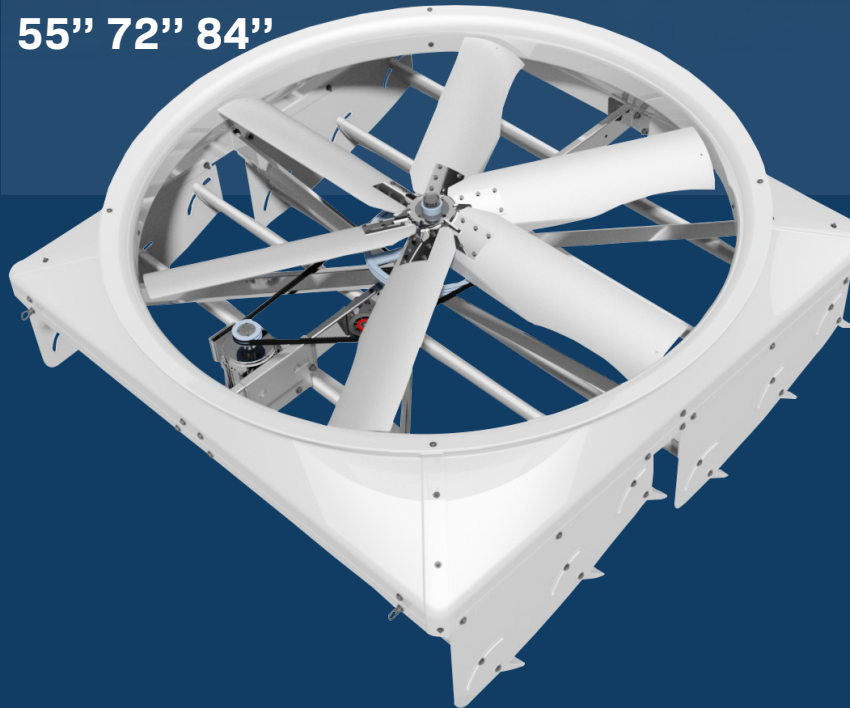
## PROPELLER

- Heavy duty and high precision bearing assembly with double protection seal with our own grease
- Shaft fixed on quick base mount
- The blades are made with 2.5 to 5mm thick aluminum alloy
- Our belts are made with super high efficient moulded notch
- Inner belt tensioned are standard with large diameter pulley
- Long belt can change easy around the paddle allowing

## OPTIONS

- Motor 1 phase or 3 phase
- OSHA safety guard
- Thermal protection
- Variable frequency drive (VFD)
- 4 lines of high pressure nozzle misting system integrate inside the deflector of the Cyclone
- Other configuration available onrequest.

55" 72" 84"



## MOTOR & SUPPORT

- Our high efficiency motors are totally enclosed (IP55)
- All our motors are designed and rated for years of trouble free operation
- Every motors are quiet during operation on all range of speed
- Built with central I beam steel support, fixed inside housing and connection. This design provides a strong vertical support that aligns the propeller center in the orifice for maximum performance.
- The Motor is fixed on a slider motor base for quick attachment.
- Different solutions are available to mount the Cyclone inside the barn: on steel post, building column or suspended from the ceiling with chain or winch kit (aircraft cable)

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To visit our website & for more info

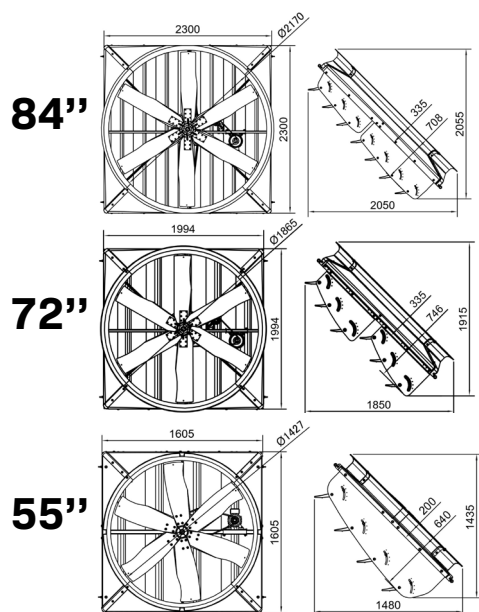
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General info	84"	72"	55"
Market	D, P, S, I*	D, P, S, I*	D, P, S, I*
Application	Recirculation	Recirculation	Recirculation
Blade size	84"	72"	55"
Housing mat	Composite fiber	Composite fiber	Composite fiber
Structure	X support	X support	X support
Structure mat	Galvanized steel	Galvanized steel	Galvanized steel
Blade Qty	6	6	6
Blades mat	Alu or Nyl	Alu or Nyl	Alu or Nyl
drive	BD or DD	BD or DD	BD or DD
RPM propeler	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

D:Diary P:Poultry S:Swine I:Industriel

Motor info	84"	72"	55"
Power (kW)	4.0 (BD&DD)	2.2(BD) or 3.0(DD)	1.1(BD) or 1.5(DD)
Volt	200-230-380-400-415-460-600	200-230-380-400-415-460-600	200-230-380-400-415-460-600
Service factor	1	1	1
Hz	50/60	50/60	50/60
Phases	3	1 or 3	1 or 3
Pole	4(BD) or 12(DD)	4(BD) or 12(DD)	4(BD) or 12(DD)
Insulation class	F	F	F
Motor enclosure	IP55	IP55	IP55
Motor efficiency	IE2 to IE4-PM	IE2 to IE4-PM	IE2 to IE4-PM
Temperature	40°C	40°C	40°C
Duty cycle	100%	100%	100%
Certification	CCC, CE, cULus	CCC, CE, cULus	CCC, CE, cULus

Fan info	84"	72"	55"
Size (HxWxD) (in cm)	100x230x230	100x200x200	80x160x160
Weight (Kg)	230(BD&DD)	185(BD) or 176(DD)	80(BD) or 99(DD)
Wire guard	Option	Option	Option
Guard mat	Zinc & powder coat	Zinc & powder coat	Zinc & powder coat
OSHA protection	Option	Option	Option
Minimum height(ceiling)	7.5m	6m	5m
Thrust (lbf)	Coming soon	59.67(BD) or 62.03(DD)	18.66(BD) or 23.51(DD)
Thrust Eff. Ratio	Coming soon	24.78(BD) or 19.82(DD)	18.66(BD) or 23.51(DD)
Thrust CFM(airflow rate)	72 000(DD&BD)	53 306(BD) or 54 153(DD)	24 718(BD) or 30 749(DD)
Efficacy (thrust cfm/W)	20(BD&DD)	22.14(BD) or 17.30(DD)	20.30(BD) or 20.39(DD)
Test ref #	On request	On request	On request

Other configuration are available.

For more information, contact us on our website [topcool.co](http://topcool.co)

The products show in this brochure are covered by a limited warranty.

Due to our continual effort to provide better products and service; litterature, products, performance data, price change without notice.

## "NO SUFFERING & NO PRODUCTION LOSSES"

"In June 2017, I finally installed these fans, including the TOPCOOL TFD-solution. Despite the fact, that this solution was a little bit more expensive than most other products, the results on milk production and reproduction are perfect. According to my calculations, these positive overall results ensured a return-on-investment in less than 1 year after installation. Even when outside temperatures had been above 30°C, my cows didn't suffer, and I experienced no production losses."

**Kris Claes**  
Belgium