

Large sized Cool-Cow fan



The CUSTOMFAN Cool-Cow fan is designed for ventilation of dairy cows to increase the comfort at a minimum cost of electricity. We use large Multi-Wing impellers with different blade configurations and the possibility of 3 different types of motors of different power. Maintenance-free gearboxes are used.

Cool-Cow fan with an impeller of 3 blades

Main data of the fan

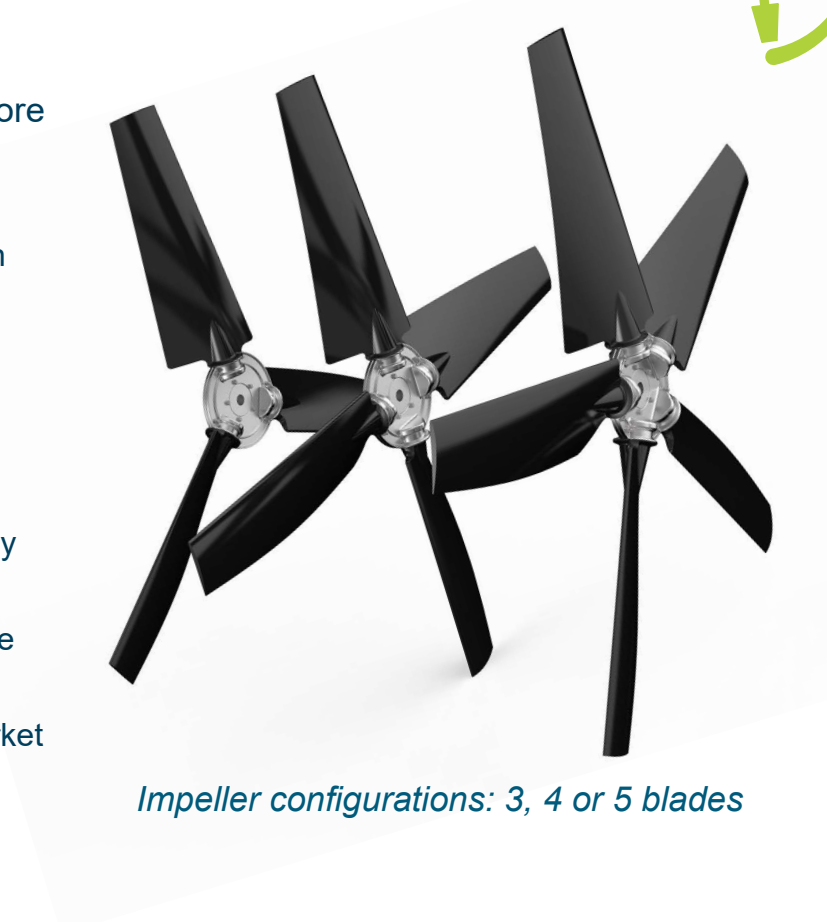
- **Diameter:** 1730 mm
- **Impeller:** 3 types of models with 3, 4 or 5 blades
- **Motor:** WEG, AC, monophasic or triphasic, 4 poles, norms IE3 and IP55
- **Motor power (Hp):** 1 - 1,5 - 3
- **Weight:** 57 to 80 kg depending on the model
- **External treatment:** Galvanized (hot-dip)



Cool-Cow fan with an impeller of 3 blades

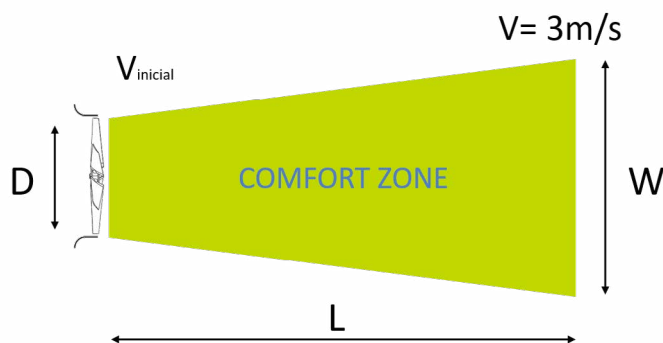
Added values

- With a large diameter we achieve more wind or evaporation for less energy consumption
- Innovative ring Bellmouth inlet with high performance and robustness
- High tolerance resulting in small tip-clearance
- Coupling with gear drive without maintenance increases performance.
- Less air obstructions compared to pulley driven fans
- Light construction and easy to assemble while at the same time being robust.
- Probably the most silent fan on the market for this size.
- Custom made fixing points.



Impeller configurations: 3, 4 or 5 blades

Pre-selection of the fan



By the airflow and the size of the fan we determine the initial average speed. We calculate the throw length **L** and the corresponding width of the air cone **W** at the average velocity of 3 m/s, which is the minimum speed to evaporate the heat from the cow.

The following table defines the comfort zone (L and W) for all the fans with different configurations of impellers and motors.

Impeller	Rotation [rpm]	Power [Hp]	Q[m3/h]	V _{inicial} [m/s]	V = 3m/s		Acoustic power [dB(A)]
					L[m]	W[m]	
1714/3-3LP/39°/9W2L	327	1	58.000	7	10	5	72
1714/4-4LP/40°/9W2L	327	1,5	68.500	8	15	7	76
1714/5-5LP/49°/9W2L	327	3	85.000	10	20	9	79