



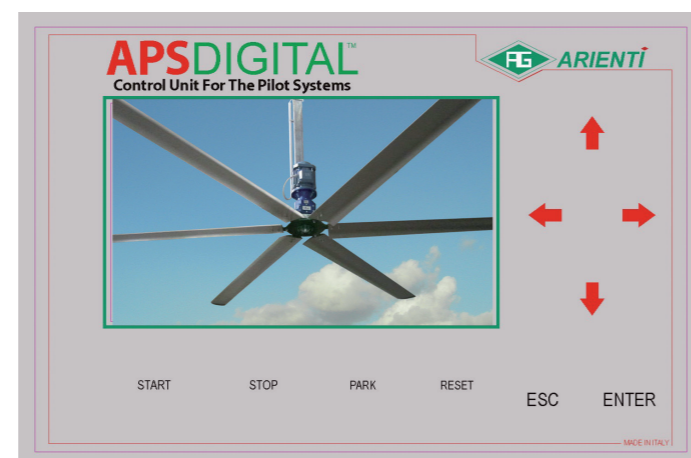
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Every modern farm needed to maintain a stable milk production in order to comply with commercial agreements. Milking cows, which are very sensitive to heat stress, typically suffer from reduced milk production and conception rates during hot periods, thus negatively influencing the profitability of the company.

**Almost everywhere, during warm and hot seasons, milk production is expected to decrease at least by 15% to 25%, as compared to that obtained in the winter.**

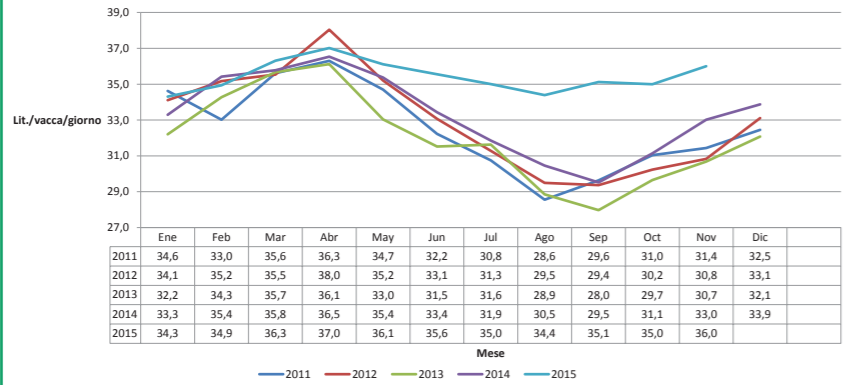
# PERFORMANCE LOSSES CAUSED BY HEAT STRESS CONDITIONS IN DAIRYCOWS



- Lower "Peak lactation" (10 -15%)
- Lower annual milk production (5 -20%).
- Lower milk fat and protein content (0.4 and 0.2 percentage units).
- Higher milk Somatic Cell Count ,SCC (100,000 units).
- Lower conception rate, causing a prolongation of "calving interval" (10-30%).
- Reduce "feed efficiency" (feed conversion to milk lowered of the 10 -15%).
- Reduce immune status.

The main factors that cause heat stress are two: TEMPERATURE AND HUMIDITY (THI)

# LACTATION CURVES



Intensely Refreshed cows in summer 2015 vs. not Refreshed cows during 2011-2014 years

Please, test Your own performance!

# WHERE YOUR COMPANY IS?

Warmer Months Average

0.98/0.95

Congratulations the Business is managed with Great Success!

Colder Months Average

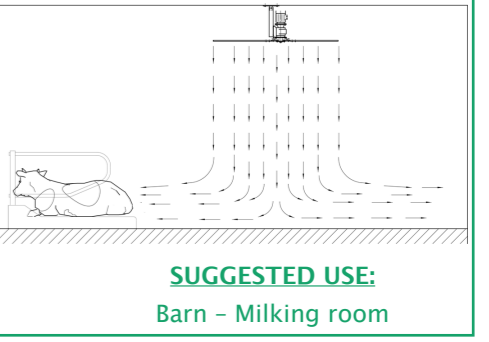
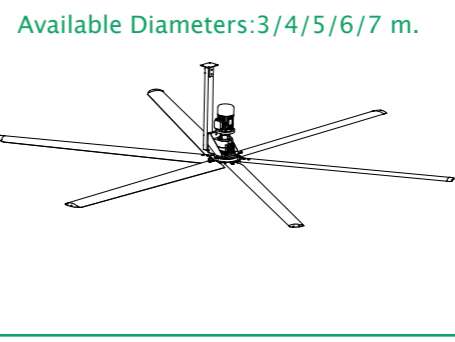
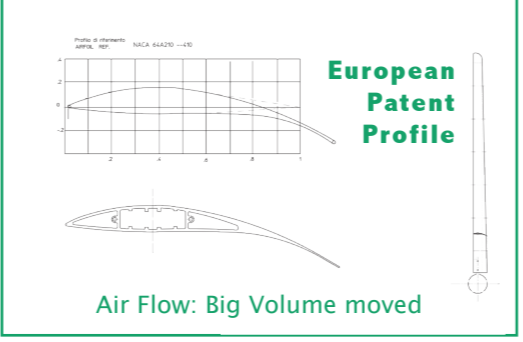
0.90/0.70

The Barn loose between 10% and 30% of Milk and Money! Maybe our help is needed!

This is a simple test based on the comparison between the milk production obtain during colder/fresh months vs the one during warmer/humid periods. Please divide average milk production of warm months for the average of cold one's to obtain the **Efficiency Ratio**: the more the result will approach to 1 the more the production level is high during all the year and the more the company is profitable and well managed!

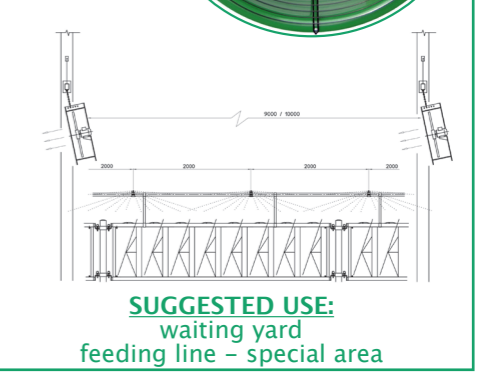
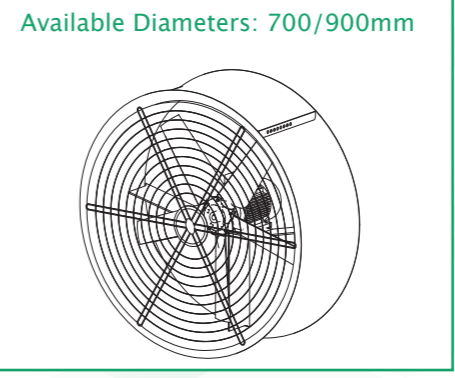
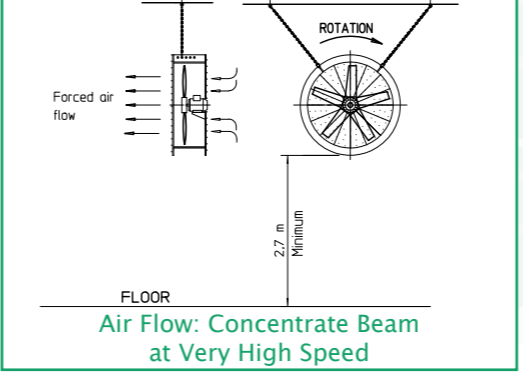
# VENTILATION\$ - BIG FAN

Thanks to the large diameters and the more technological fin profiles of our ceiling fans, we can prevent heat stress and considerably reduce the discomfort of animals. Full safety is achieved with the aluminium "fall-proof" blades. Perfect functionality with a low rotation speed and maximum noiselessness, and a valid fin profile to optimise performance and air volumes.



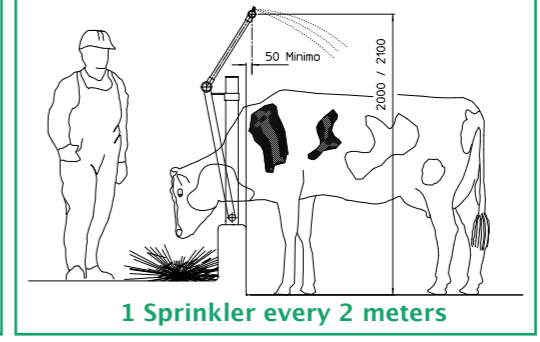
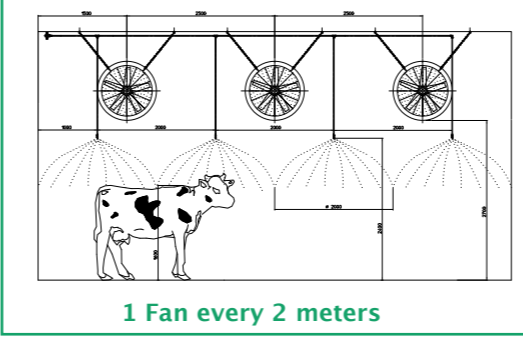
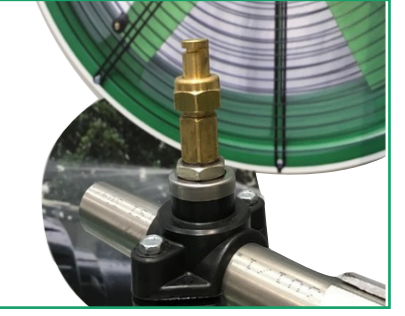
# VENTILATION\$ - CIRCULAR FAN

High air velocity (at least 3mt./sec) increases the amount of heat transfer from the surface of the cow. Working directly and tightly on the animal, this solution allows to obtain excellent results even in barns where insufficient heights of ceiling do not permit Big Fans installation.



# COOLING - FANS+MICROIRRIGATION

We can provide the cheapest and most effective system for cooling cows with a scientific method used by Ariente since 10 years in Italy: a subsequent wetting and forced drying of the cow's coat to maximize the cooling effect obtained blowing air with our efficient fans. In this way we can assure a re-cover up to 98% of the milking quantity lost during warm seasons.



SUGGESTED USE:  
waiting yard  
feeding line - special area