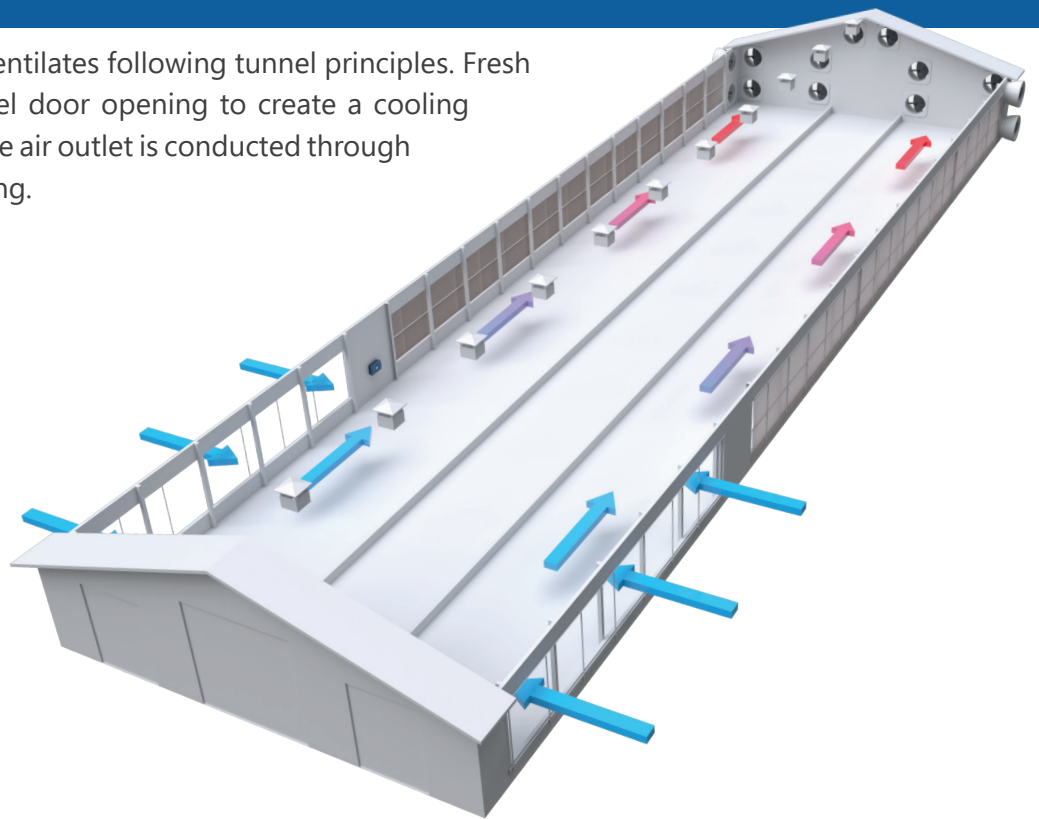


HYBRID VENTILATION

Hybrid ventilation is a combined system using both mechanical and natural ventilation. Here the barn is designed almost like tunnel ventilation, but with the addition of an adjustable ridge or chimneys with adjustable shutters. This system also has full curtain sidewalls and relies on them to control the size of the air inlet opening during summer and winter periods. Hybrid-ventilated barns typically have a low roof pitch and gable fans at the far end.

System - summer

During warm periods, the barn ventilates following tunnel principles. Fresh air is taken in through the tunnel door opening to create a cooling airflow lengthwise in the barn. The air outlet is conducted through wall fans at the end of the building.



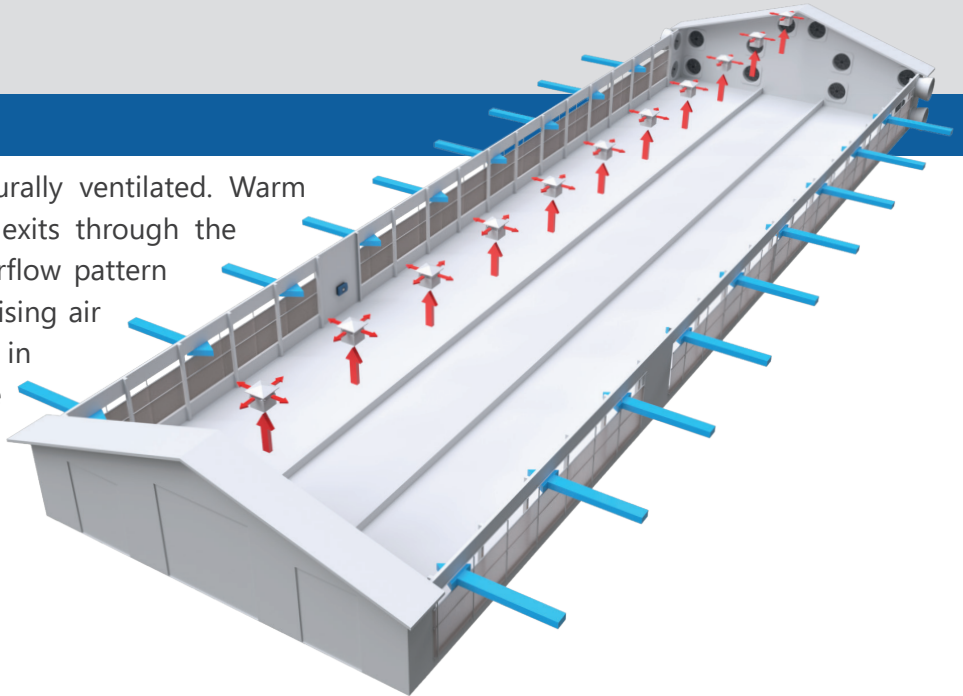
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HYBRID VENTILATION

System - winter

During cold periods, the barn is naturally ventilated. Warm air generated by the cows rises and exits through the adjustable ridge or chimneys by an airflow pattern called the 'chimney effect'. The warm rising air by convection creates a vacuum that lets in fresh colder air from the adjustable side curtains, which are slightly opened.



Secco's Hybrid ventilation system ensures:

- Great flexibility and well-ventilated barns across all seasons
- Energy-efficient running cost
- Removal of excess heat and harmful gases
- Efficient and easy climate control
- Healthy and productive cows

