



Ventilation Systems for Dairy Barns



skov-secco.com

About Us



At SKOV-SECCO, we understand the critical role of optimal barn ventilation in enhancing dairy productivity and cow well-being. Our innovative, climate-adaptive ventilation solutions, backed by over 40 years of SKOV group's expertise, set us apart in ensuring high-quality milk production worldwide. With our specialized dealer network worldwide, we offer integrated, tailor-made systems for any dairy farm, proving our commitment to sustainability and excellence in dairy farm management.

Over the years, SKOV-SECCO has become one of the leaders in natural and mechanical

ventilation systems intended for modern dairy barns. Through the constant development of new products, SKOV-SECCO can offer you a complete line of ventilation products designed for all types of breeding.

Since the company's establishment in 2000, SKOV-SECCO's state-of-the-art natural and mechanical ventilation systems have been sold and used throughout North America, Europe, the Middle East, and Asia through specialized distributors.



Natural

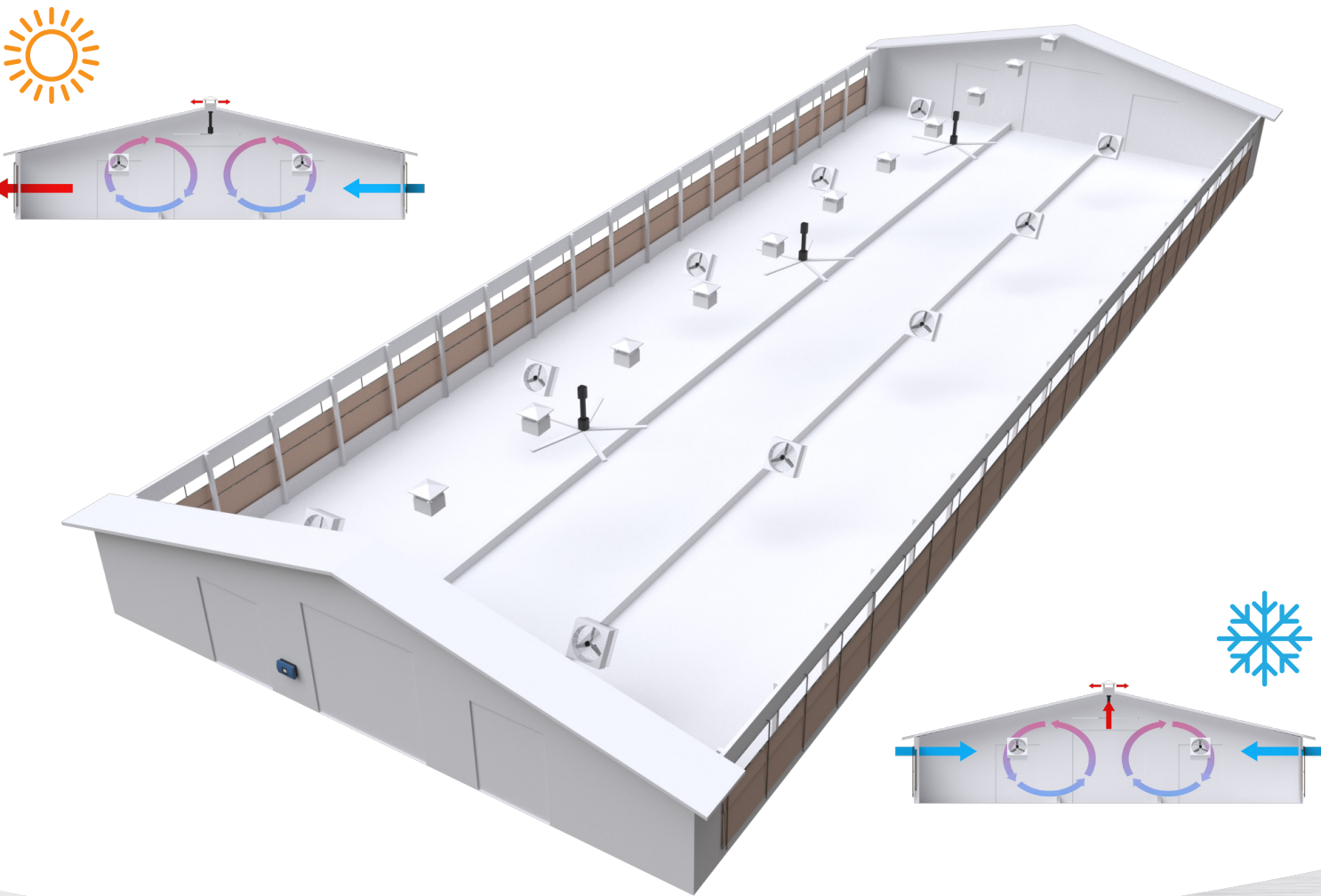


Natural ventilation is most suited for regions with mild or temperate climates. The system relies on the outside weather conditions and indoor temperature variations to create air exchanges in the barn.

During the spring, summer, and fall, the system relies on sidewall openings to allow for adequate air movement in the barn which can

be supplemented with recirculation fans during hot weather. During the winter, minimum air exchanges can be managed through a ridge opening with minimal sidewall openings.

The natural system is restricted to small or mid-sized barns due to the physical limitations of the ventilation principles.



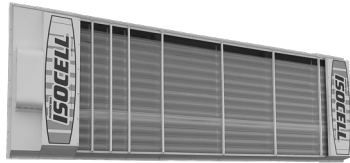
AIR INLET



Roll-down curtain



Roll-up curtain



ISOCELL Z-wall



Lumiwall

AIR OUTLET



DA 820/600 chimneys



Square chimneys

RECIRCULATION FANS



Boreal Flow fans



BF 50 recirculation fans



VHV 55" and 72" fans



Big Air ceiling fans

COOLING



DA 2000 cooling pump



DA 2000 nozzle

CLIMATE CONTROLLER



BlueControl dairy



DOL 31 speed controller

DOL SENSORS OFFERING



DOL 114 Temperature and humidity sensor



DOL 104 Humidity sensor



Radiation shield



DOL 58 Weather station



DOL 111 Rain detector

Tunnel

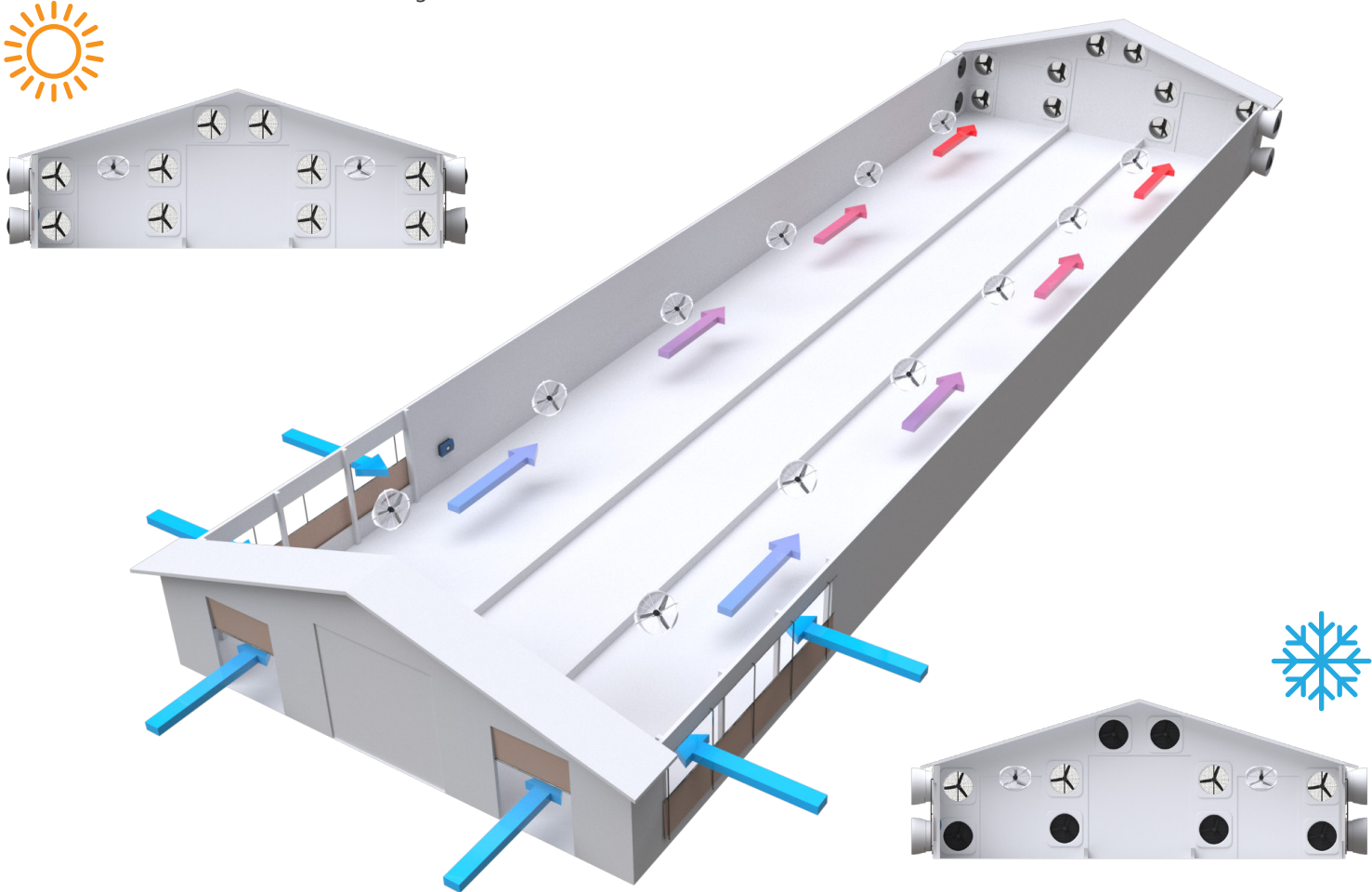


Tunnel ventilation is the ideal solution for hotter climates. The system operates by using negative or positive pressure to create high air speeds and high air exchange rates which produces a desired cooling effect.

A barn equipped for negative pressure tunnel ventilation will have inlet openings at one end and large exhaust fans on the other end. Fresh air enters the barn through the inlet openings and is removed through the exhaust fans.

During the winter or colder periods, the same concept can be used with fewer air exchanges which is achieved by using smaller curtain openings and fewer fans.

Pad cooling or high-pressure cooling can be added to reduce the incoming air temperature.



AIR INLET



Roll-down curtain



Roll-up curtain

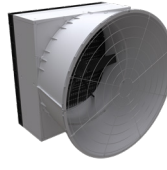


Lumiwall

AIR EXHAUST



BF 55 wall fans



BF 50 wall fans



MegaFan DD wall fans

AIR INJECTION



BF 50 with air shutter



BF 50 with motorized shutter

RECIRCULATION FANS



Boreal Flow fans



BF 50 recirculation fans



VHV 55" and 72" fans

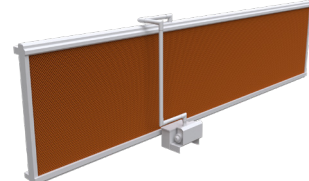
COOLING



DA 2000 cooling pump



DA 2000 nozzle



Pad cooling

CLIMATE CONTROLLER



BlueControl dairy



DOL 31 speed controller

DOL SENSORS OFFERING



DOL 114 Temperature and humidity sensor



DOL 104 Humidity sensor



Radiation shield



DOL 119 CO2 sensor



DOL 53 Ammonia sensor



DOL 18 Sub-pressure sensor

Cross-tunnel



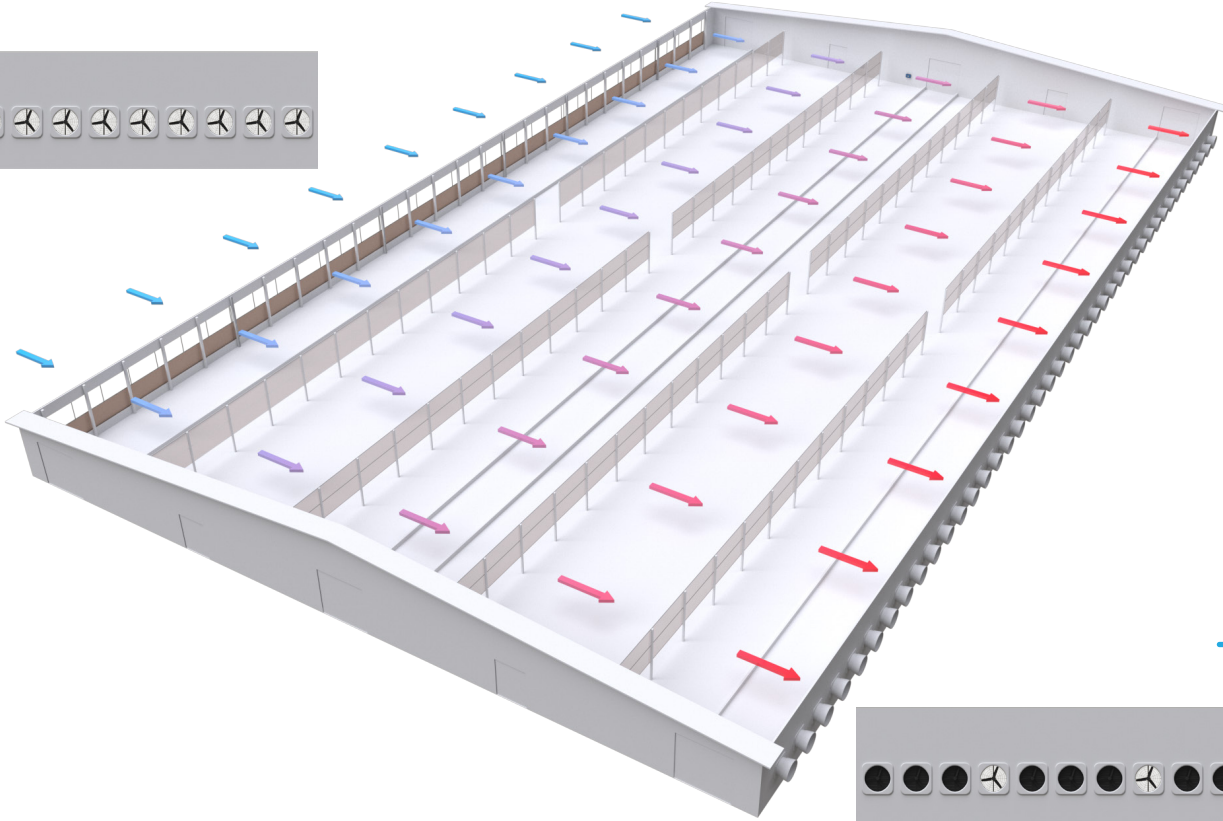
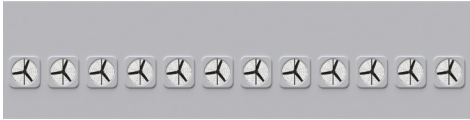
Cross-tunnel ventilation is the ideal solution for large-scale barns in hotter climates. The system typically operates by using negative pressure to create high air speeds and high air exchanges, which produce a cooling effect.

A Cross-tunnel barn will have inlet openings down the entire length of one side while having exhaust fans on the opposite length of the barn. Fresh air enters through the inlet openings and is removed through the exhaust fans. A baffle system can be added over the stalls inside the

barn to achieve a higher air speed without adding more air capacity.

During the winter or colder periods, the same concept can be used with fewer air exchanges which is achieved by using smaller curtain openings and fewer fans.

Pad cooling or high-pressure cooling can be added to reduce the incoming air temperature.



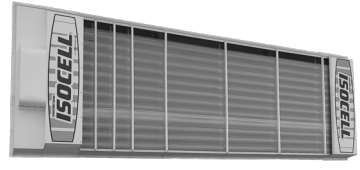
AIR INLET



Roll-down curtain



Roll-up curtain

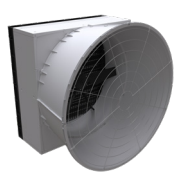


ISOCELL Z-wall

AIR EXHAUST



BF 55 wall fans



BF 50 wall fans



MegaFan DD wall fans

AIR INJECTION



BF 50 with air shutter



BF 50 with motorized shutter

RECIRCULATION FANS



Boreal Flow fans



BF 50 recirculation fans



VHV 55" and 72" fans

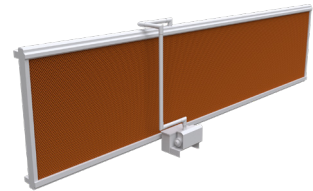
COOLING



DA 2000 cooling pump



DA 2000 nozzle



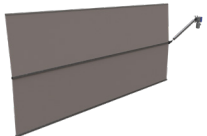
Pad cooling

CLIMATE CONTROLLER



BlueControl dairy

AIR BAFFLE



Double roll-up curtain



Roll-up curtain

DOL SENSORS OFFERING



DOL 114 Temperature and humidity sensor



DOL 104 Humidity sensor



Radiation shield



DOL 119 CO2 sensor



DOL 53 Ammonia sensor



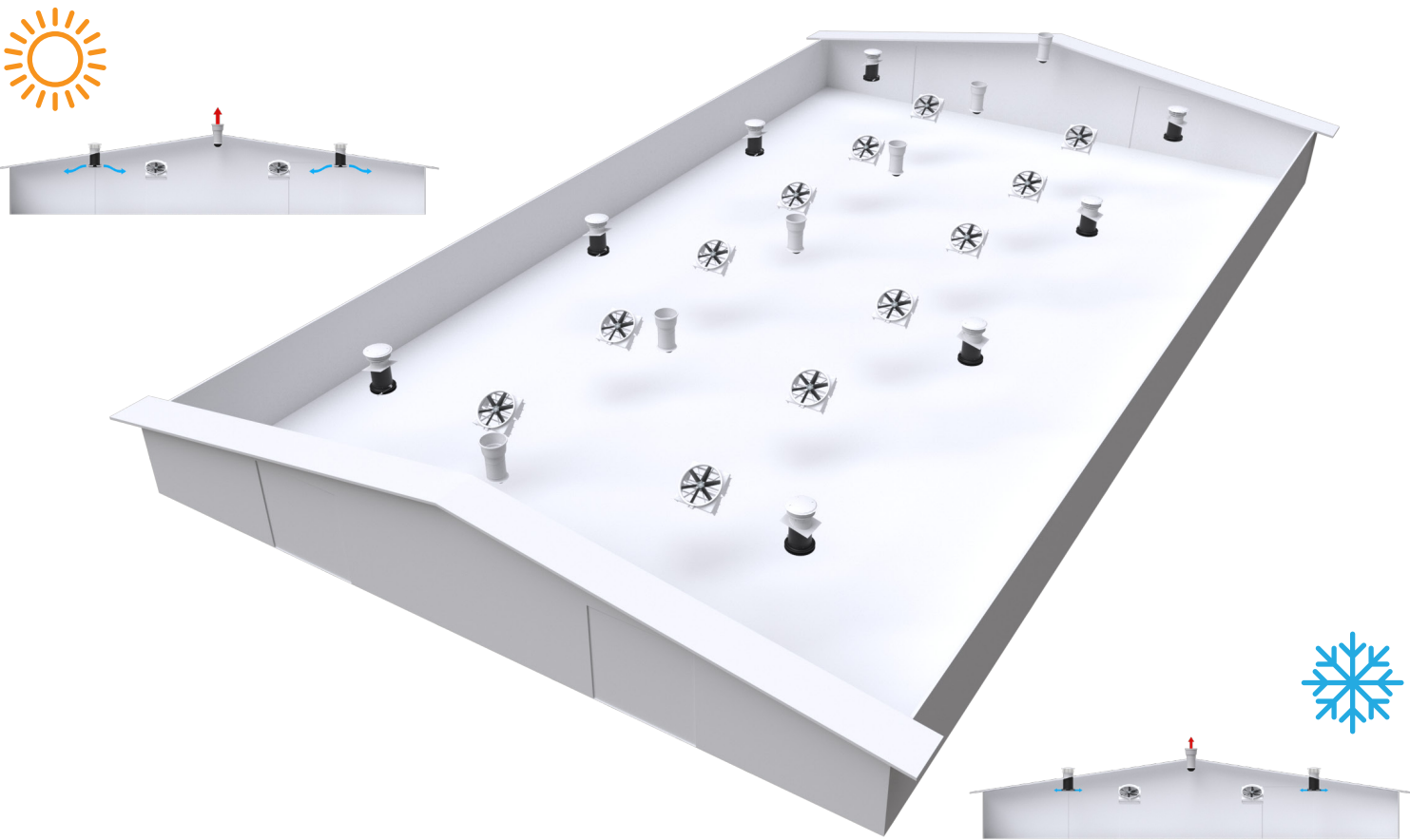
DOL 18 Sub-pressure sensor

Equal Pressure



Equal pressure ventilation ensures that air is distributed evenly and optimally throughout the barn. The system works well when there are difficulties with air leakage, wind action, location, layout, and so on.

The barn maintains an equal (neutral) pressure by using fans in both the inlets and outlets. The roof inlets will bring air into the barn and remove air through the exhaust outlets. The roof inlets can also be used to recirculate air which helps reduce heating costs during the winter months.



AIR INLET



Roll-down curtain



Roll-up curtain



Lumiwall



DA 60-820 roof inlets



DA 40A roof inlets

AIR EXHAUST



BF 55 wall fans



BF 50 wall fans



Square chimneys



DA 820/600 chimneys

AIR INJECTION



BF 50 with air shutter



BF 50 with motorized shutter

RECIRCULATION FANS



Boreal Flow fans



BF 50 recirculation fans



VHV 55" and 72" fans

CLIMATE CONTROLLER



BlueControl dairy



DOL 31 speed controller

DOL SENSORS OFFERING



DOL 114 Temperature and humidity sensor



DOL 104 Humidity sensor



Radiation shield



DOL 119 CO2 sensor

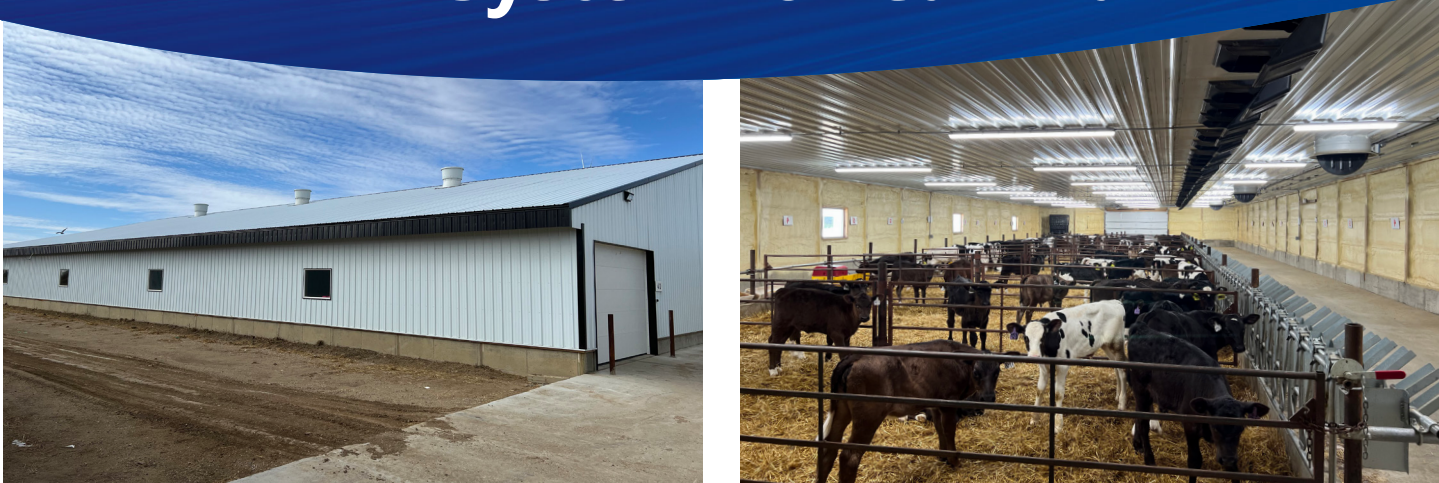


DOL 53 Ammonia sensor



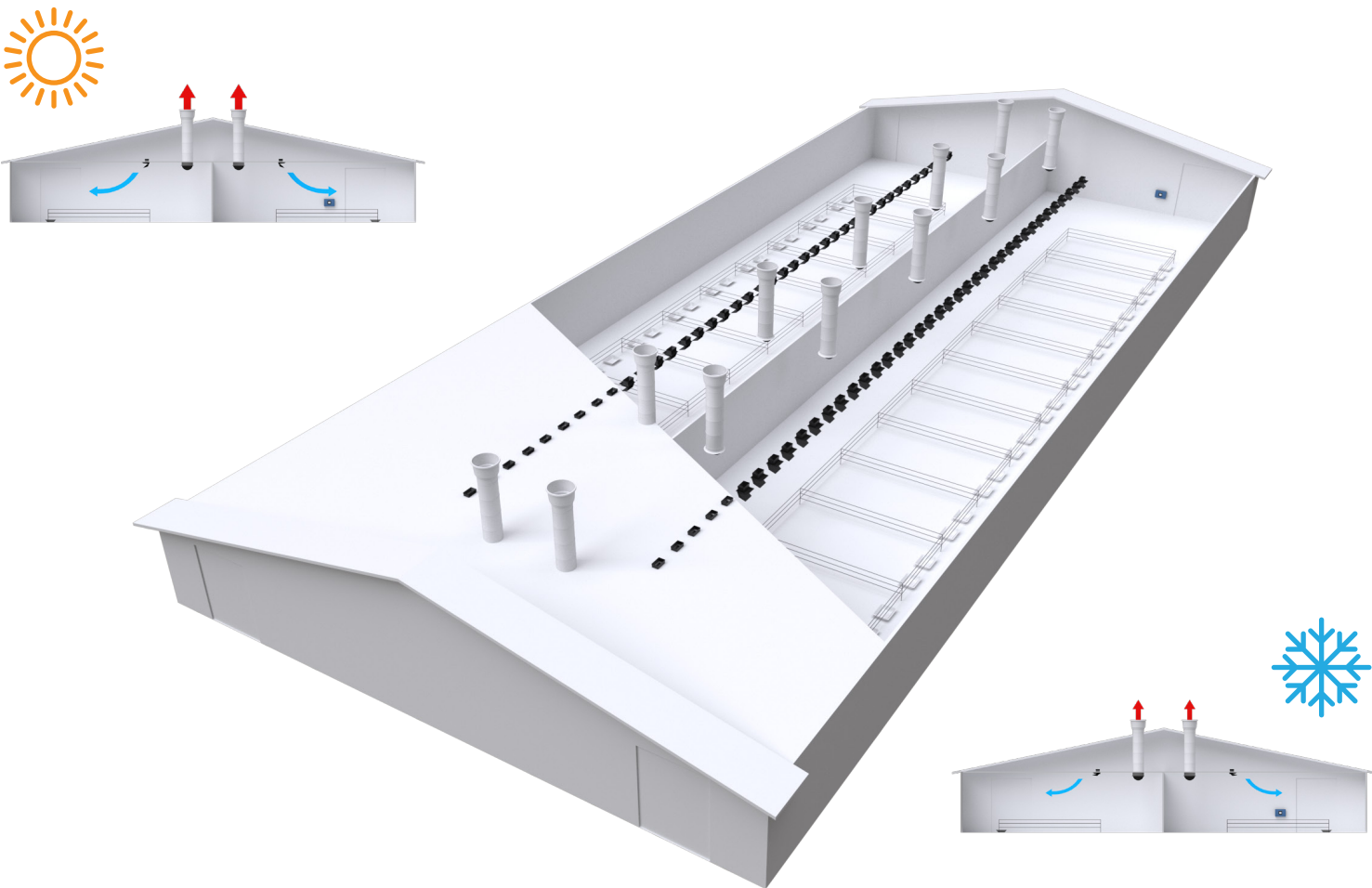
DOL 18 Sub-pressure sensor

LPV System for Calf Barn



LPV systems are suitable for calf barns in mild and temperate climates. The system utilizes negative pressure to bring air into the barn through inlets and removes the air via exhaust fans. In the system, wall, ceiling, and roof inlets can be used depending on the application, and will supply fresh air into the barn.

Inlets are adjusted to provide an optimal climate for the calves by maintaining the proper temperature, humidity, and air velocity. During warm periods, the inlet opening is increased, which also allows air to enter at a faster rate and causes air circulation at the calf level. During colder periods, the inlet opening is decreased, which allows the fresh outside air to mix with the inside air before reaching the calves.



AIR INLET



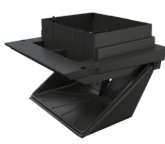
DA 60-820 roof inlets



DA 40A roof inlets



Square chimneys



DA 1540 ceiling inlets

AIR EXHAUST



BF 55 wall fans



BF 50 wall fans



DA 820 chimneys

CLIMATE CONTROLLER



BlueControl dairy



DOL 31 speed controller

DOL SENSORS OFFERING



DOL 114 Temperature and humidity sensor



DOL 104 Humidity sensor



Radiation shield



DOL 119 CO2 sensor



DOL 53 Ammonia sensor



DOL 18 Sub-pressure sensor



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