

# ECV FANS VS PANEL FANS

PSS-063-ECV\_VS\_Panel-01

## The Benefits of Louvered Fans

When looking at making your next fan purchase, it is normal to let the upfront cost drive your decision making. However, it is important to also consider the long-term costs when making that initial investment.

Heat stress is a costly side effect of ineffective ventilation and cooling systems. It affects everything from dry matter intake and milk production to reproduction to growth rates.

Louvered fans give you more control over your Ventilation/cooling system by allowing you to **direct airflow onto the cow**. They have a wider and longer coverage area, which can reduce overall energy consumption compared to traditional panel fans.

In a 120' section of stalls, two 72" ECV fans can replace six 50" Panel fans and more effectively put air into the cow space. The number of panel fans varies by bed size.

### ECV FANS

- Creates air speeds of up to 800 ft/min (4 m/sec) in a tunnel ventilated barn
- Directional louvers target air onto the cows
- Redirected smooth airflow helps maintain airspeed
- 72" ECV covers an area of 60ft x 20 ft (18 m x 6 m)
- (60' (18 m) Tunnel ventilated barn, 48' (14.6 m) Natural ventilated barn and will depend on stall layout)
- Uses less energy to provide more effective and controlled airflow in cow space than properly spaced panel fans

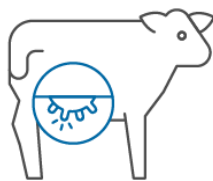
### PANEL FANS

- Airflow widens quickly and does not stay in cow space
- Turbulent flow pattern – quickly loses air speed
- 50" Panel fan only covers an area of 30 ft x 12.5 ft (9 m x 3.8 m OR 1 single row of cows)

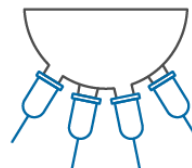
## POTENTIAL BENEFITS



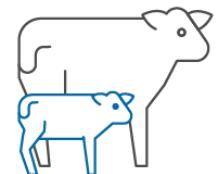
Increased Feed Efficiency



Decreased Mastitis



Less Peak Milk Loss From Early Lactation

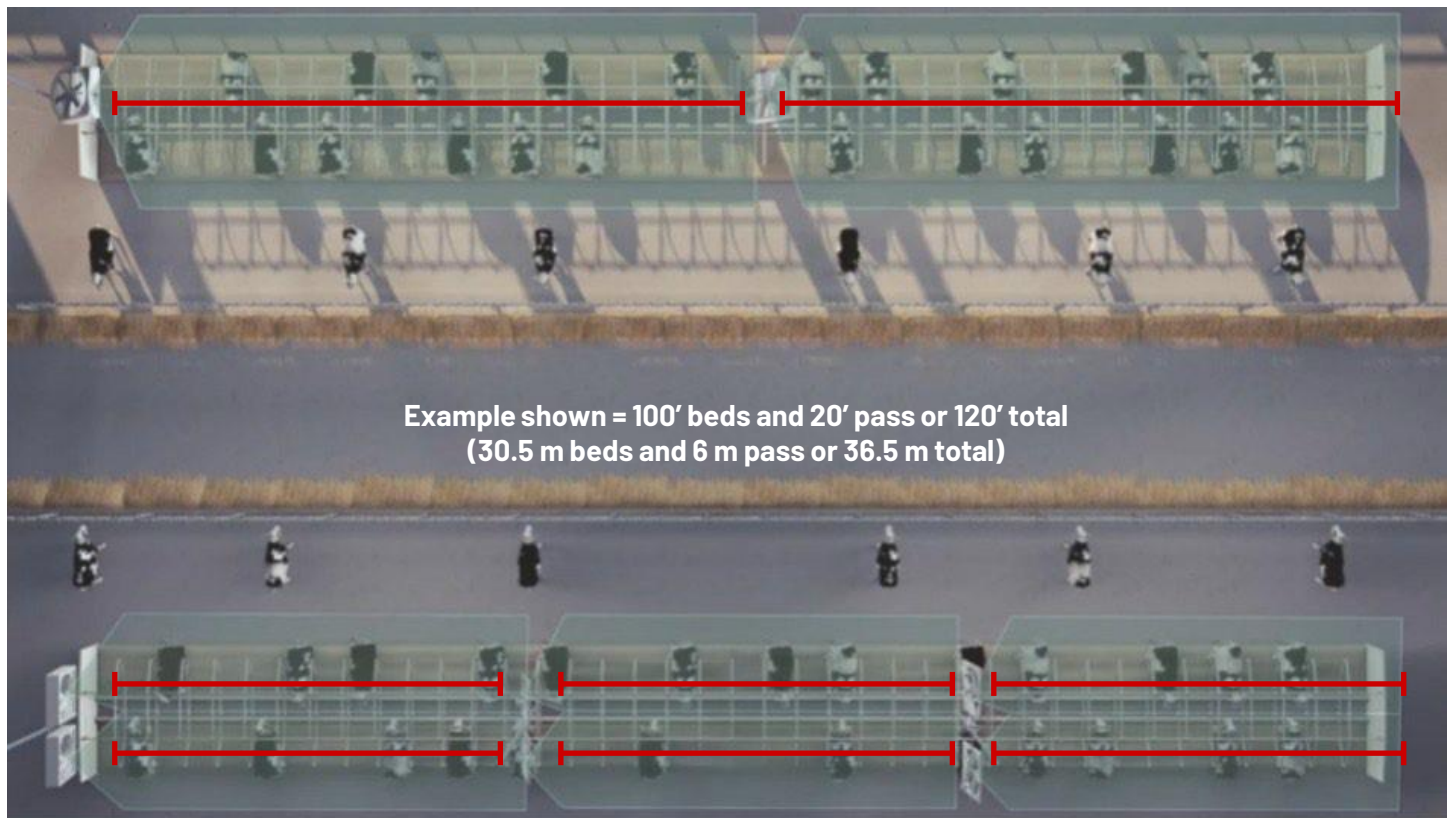


Increased Pregnancy Rate & Decreased Early Embryonic Death

## ECV FANS VS PANEL FANS

It takes six to eight 50" panel fans to cover the same area as two 72" ECV fans.

Moving to ECV fans provides a more consistent airflow at the cow level for an animal-centered environment, optimizing animal well-being and maximizing production and operational efficiency.



The number of panel fans varies by bed size.

