



# In-Vent Active

THE MOST ENERGY-EFFICIENT VENTILATION AND COMFORT HEATING SYSTEM IN THE UK

Ventive In-Vent Active is a façade-integrated natural ventilation system designed to deliver fresh air at comfortable temperatures for all seasons. Intelligent, connected controls and innovative heat pump technology enable highly efficient performance with minimal carbon footprint.

- ✓ **100% fresh air** delivered to rooms, no mixing of stale air
- ✓ **Enhanced heat recovery** that combines natural ventilation with efficient heat pump technology

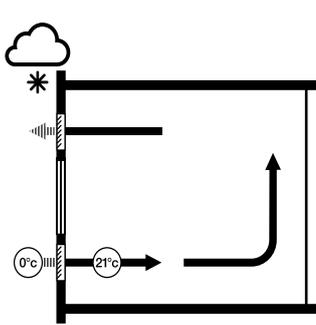
- ✓ **Connected** to the Ventive cloud for real-time performance monitoring and proactive maintenance
- ✓ **Year-round comfort** enabled by night-time cooling mode in summer, and enhanced heat recovery mode in winter
- ✓ **Seamless design** and silent operation, well within noise limits



**Passive Ventilation with Heat Recovery (PVHR™)** is a patented method of delivering high thermal efficiency and consistent air flow using natural ventilation systems by securely transferring the heat from exhaust air to fresh incoming air.

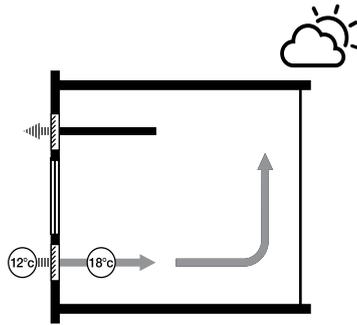
# How does Ventive In-Vent Active work?

In-Vent Active combines PVHR with a heat pump to ensure rooms are supplied with 100% fresh air at comfortable temperatures



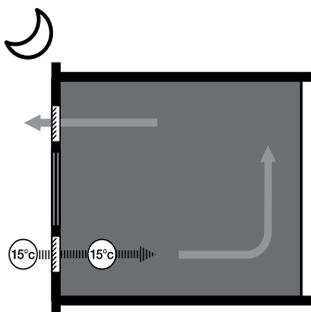
### Enhanced heat recovery

The heat pump activates to temper the incoming fresh air, ensuring maximum comfort for occupants.



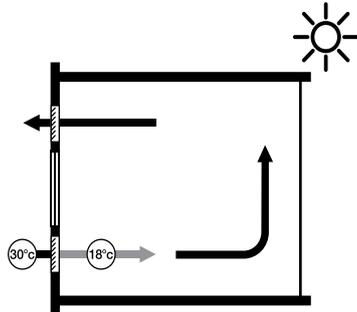
### Heat recovery

In-Vent Active dynamically adjusts to classroom temperatures and CO<sub>2</sub> levels to provide a balance of comfort and air quality.



### Passive cooling

Secure night-time cooling through a constant flow of air. Capable of 4 air changes per hour, this method can reduce temperatures overnight by up to 10°C.

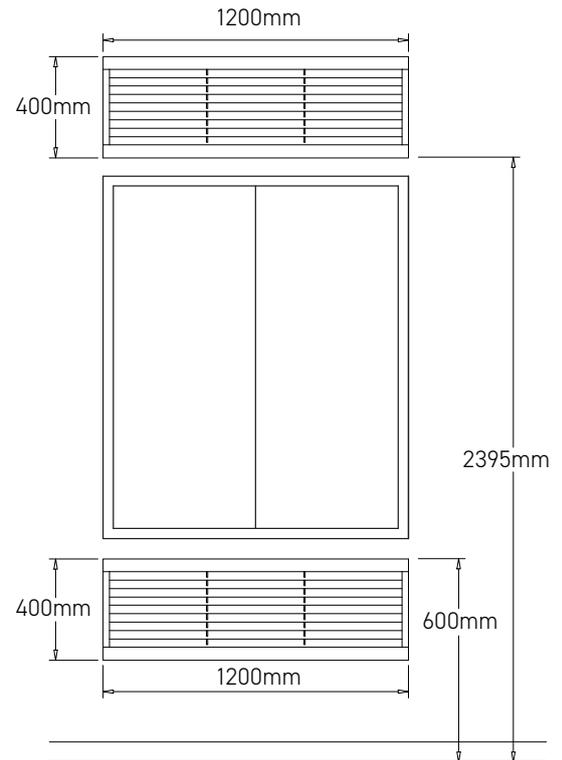


### Active cooling

The heat pump and heat exchanger work together to significantly cool down incoming fresh air and prevent overheating.

Key:  

 Cool air    Tempered air    Warm air



### Performance:

- Ventilation: 50 - 200 l/s (demand responsive)
- Heat Recovery: Up to 2.2kW at 30°C
- Night time cooling: Up to 4 ACH or 10°C
- Daytime cooling: Up to 2.2kW at 18°C

### Energy Use:

- Ventilation: 0W
- Heat Recovery: Up to 450W
- Night time cooling: 0W
- Daytime cooling: Up to 450W

### Free Consultation:

Email us at: [contact@ventive.co.uk](mailto:contact@ventive.co.uk) quoting "In-Vent Active" to get a free consultation on your next project. We offer a full design package that includes an IES report, thermal performance and BIM objects that provide precise modelling data.



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