



In-Vent Passive

NATURAL VENTILATION WITH INTELLIGENT HEAT RECOVERY

Ventive In-Vent Passive is the only façade-integrated natural ventilation system to passively recover heat from stale exhaust air. Intelligent, connected controls enable the optimal balance of fresh air and heat recovery for all conditions.

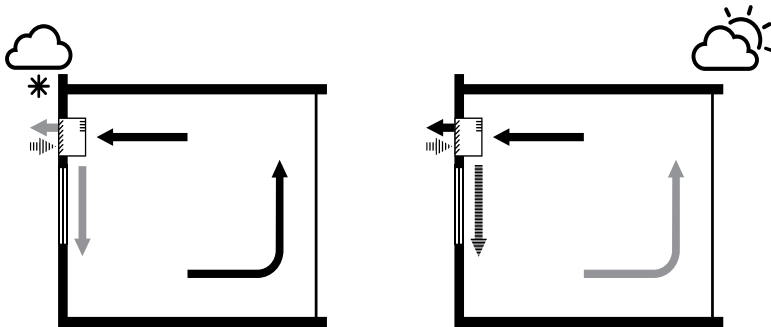


- ✓ **100% fresh air** delivered to rooms, no mixing of stale air
- ✓ **Free heat recovery** patented PVHR technique reduces heat loss by 55%
- ✓ **Seamless design** and silent operation, well within noise limits
- ✓ **Connected** to the Ventive cloud for real-time performance monitoring and proactive maintenance
- ✓ **Custom manufacturing** to fit your project's specific requirements

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 Passive work?

Classroom sensor data enables the system to adapt to changing conditions while constantly supplying an optimal amount of 100% fresh air

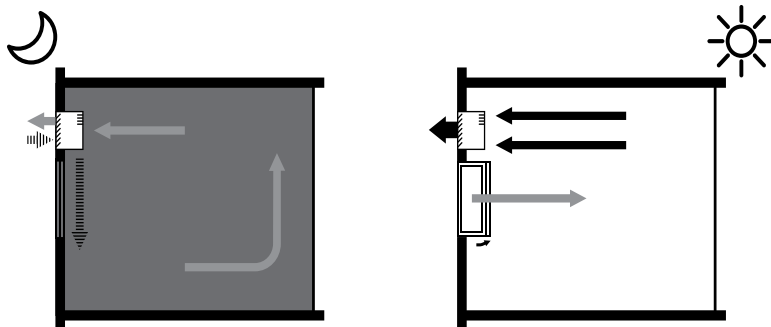


Heat recovery

Fresh incoming air passes through the Heat Exchanger, recovering heat from stale exhaust air to ensure maximum comfort for occupants

Comfort

In-Vent Passive dynamically adjusts to classroom temperatures and CO₂ levels to provide a balance of heat recovery with air quality



Passive cooling

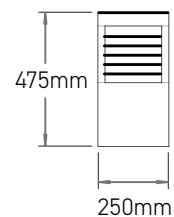
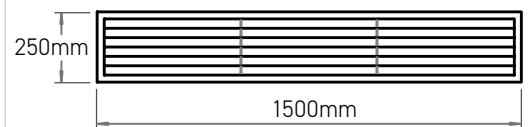
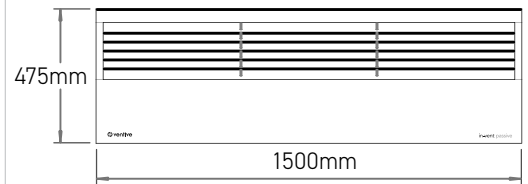
Secure night-time cooling through a constant flow of air. Capable of 2 air changes per hour, this method can reduce temperatures overnight by up to 5°C

Passive boost

Increasing air supply by opening a window allows In-Vent Passive to rapidly refresh the air quality within the classroom

Key:

 Cool air ■ Tempered air ■ Warm air



Performance:

Ventilation: 30 - 150 l/s (demand responsive)

Heat Recovery: Up to 55%

Night time cooling: Up to 2 ACH or 5°C

Energy Use:

Ventilation: 0W

Heat Recovery: 0W

Night time cooling: 0W

Free Consultation:

Email us at: contact@ventive.co.uk quoting "In-Vent Passive" 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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