AirEx

SMART AIR BRICKS: REDUCING HEAT LOSS AND IMPROVING EPC RATINGS



SMART AIR BRICKS: REDUCING HEAT LOSS AND IMPROVING EPC RATINGS

AirEx is transforming home energy efficiency and retrofit delivery with the world's first smart air brick.

The AirEx Floorvent is a quick, low-disruption energy efficiency solution for suspended timber floors.

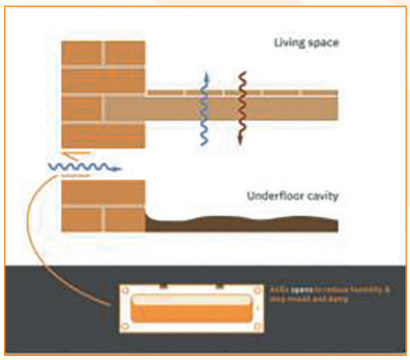
Easy to install and needing minimal maintenance, it helps improve EPC scores, reduces draughts, improves resident comfort and home health and lowers energy bills.

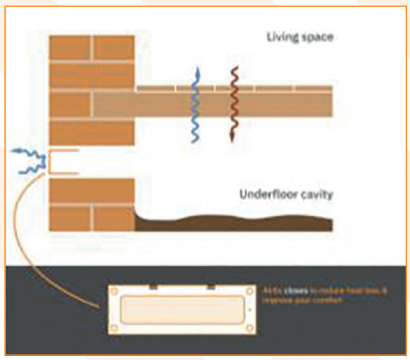


HOW IT WORKS

The Floorvent replaces traditional air bricks with smart, sensor-controlled units that respond to temperature, humidity, and weather.

Vents open to maintain airflow and close to retain heat, improving comfort, energy efficiency and home health year-round.





INSTALLATION & TRAINING

Installation is easy and quick and can be carried out by in-house teams or sub contractors.

Each vent fits a standard 3”x 9” air brick slot, with conversion kits available for larger openings.

Installers have access to full training resources, including guides, videos, and expert support.

After the installer completes training, they will have access to the AirEx Installer App which streamlines setup with step-by-step guidance, real-time troubleshooting, and a project dashboard.



Confirmation of connection
You will receive confirmation that the hub is connecting to the network. In around 15 seconds the LED ring will show solid blue.



AirEx

SMART TECHNOLOGY AND DATA-DRIVEN INSIGHTS

The AirEx Hub connects smart vents to our cloud platform via WiFi or 4G.

It uses real-time data to optimise vent operation taking account of the internal home environment and external conditions, while using minimal power or internet bandwidth.

AirEx has built the world's largest dataset on underfloor conditions. This informs vent control and supports future services for landlords, helping monitor moisture levels, protect timber floors from decay and support asset management



GOVERNMENT SCHEME ELIGIBILITY

AirEx Floorvent is approved in funded schemes such as Warm Homes Social Housing Fund and Local Grant schemes, Warmer Homes Scotland and ECO4.

It is listed in SAP/RdSAP via Appendix Q and has been successfully installed under funded schemes by PAS-accredited installers, typically as a draught proofing measure.



AirEx

WHY CHOOSE AIREX?

Floorvent offers a fast, cost-effective alternative to insulation. It's proven to cut heat loss by 12%, based on testing in 115 homes and is integrated into SAP, giving 2-4 EPC points for typical homes.

With over 10s of thousands of units installed in thousands of homes, we're the UK's leading expert in underfloor ventilation, with unmatched insight into subfloor conditions.





ANY QUESTIONS?

Email: support@airex.tech
Visit: www.airex.tech/support

AirEx

AIREX FLOORVENT
SMART DRAUGHT PROOFING UNIT

PRODUCT DATASHEET - REV 5 JUNE 2024

Ventilation area	Mean equivalent area when open (1Pa)	4,042 mm2
	Mean equivalent area when closed (1Pa)	502 mm2
Airbrick size	Replace existing (standard) airbricks	65 x 215 x 110 mm
Vent actuation	Speed of completed change of state (from open <> close)	< 5 secs
	Open state duration	1 - 4 hours
	Trigger limit sensors to monitor vent positions	Fully Open & Closed positions
	Resist wind speeds	BWC 8 +
Sensing parameters	Transmit time stamped void conditions	°C, % RH
	Full humidity range of void sensor	0 -100 % RH
	Void sensor humidity readings accuracy	± 5 % RH
	Full temperature range of void sensor	-20 to +50°C
	Void sensor temperature readings accuracy	± 0.5°C
	Measurement increments for void temperature & humidity	Every 30 mins
Battery power	Battery cells	3x Alkaline (Zn/MnO2) D cells
	Nominal voltage of battery pack	4.5 V
	Nominal battery pack capacity	19 Ah
Communication	Frequency of communication protocol	868 MHz
System Pairing	Brick to Hub Connection	Connected through app
	Hub Internet Connection	WiFi Hub: Connected through app 4G Hub: Connects automatically
Brick Commissioning	Power on	Battery pull tab
	Run self-diagnostics automatically on start-up	< 30 seconds per unit
	Clear indication of brick status	Device Status LEDs & Dashboard
Standards & Specifications	Conformity to free area requirement within relevant specification for air bricks	BS 493:1995+A1:2010
	Standards Tested to for UKCA Marking	EN 62368-1:2020, A11 EN 300 220-2 V3.1.1 EN 301 489-3 V2.1.1
	BBA Certificate of Agréement (24/7174)	Building Regulations England and Wales 2010 Scotland 2004