Kair Single Room Heat Recovery Ventilator

Model:
KHRV150/12RH - Pullcord & Humidistat

USER GUIDE

Please read and save these instructions

If you have any questions or concerns regarding your
Kair Heat Recovery Ventilator please call your supplier / installer

Supplier/Installer:	
Address:	
Telephone:	
Installation date:	
Installation reference:	
Serial Number:	

Kair®
For Your Environment

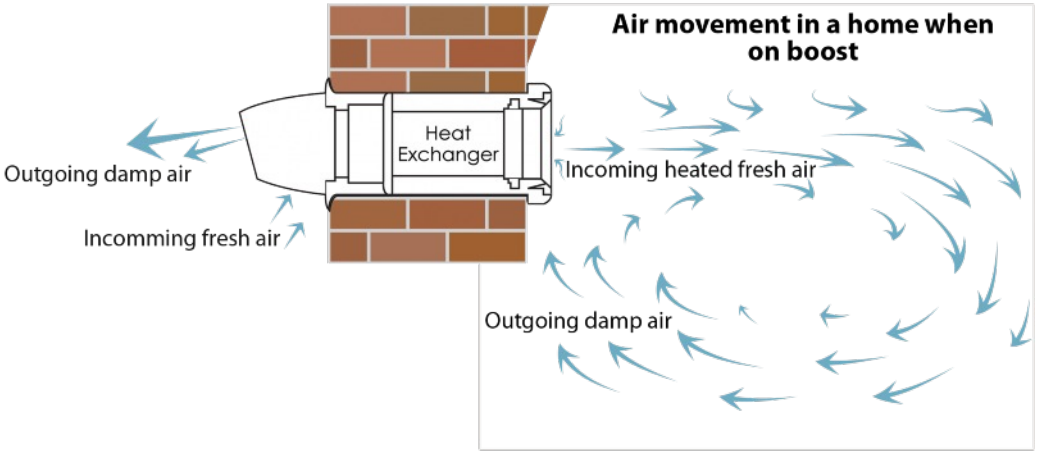
What am I?

Dampness and Condensation

We have all been made aware of environmental and ecological issues regarding energy conservation in recent years, and encouragement has been given to insulate our homes by installing double-glazing, loft and cavity wall insulation, and draught excluders. This has improved insulation at the cost of natural ventilation. Consequently, the water we generate in our day-to-day activities such as breathing, washing, bathing, cooking etc, cannot escape so easily and many properties now suffer from condensation and mould growth problems.

The Kair™ KHRV150 Heat Recovery Ventilator

Your property has been chosen to be fitted with a Kair KHRV150 Heat Recovery Ventilator. Unlike traditional extractor fans, which waste expensively produced heat, the Kair KHRV150 contains two fans; one to extract damp stale air and the other to replace it with fresh warmed air.



The ventilator runs continuously at trickle speed providing background ventilation. The two airflows pass through alternate layers of a highly efficient aluminium heat exchanger. The incoming air collects the transferred warmth, without mixing the airstreams. Should humidity rise above a preset level, the machine will switch to boost mode rapidly exchanging the air to bring the humidity down. Having achieved this the machine will switch back to normal trickle speed.

Control Features

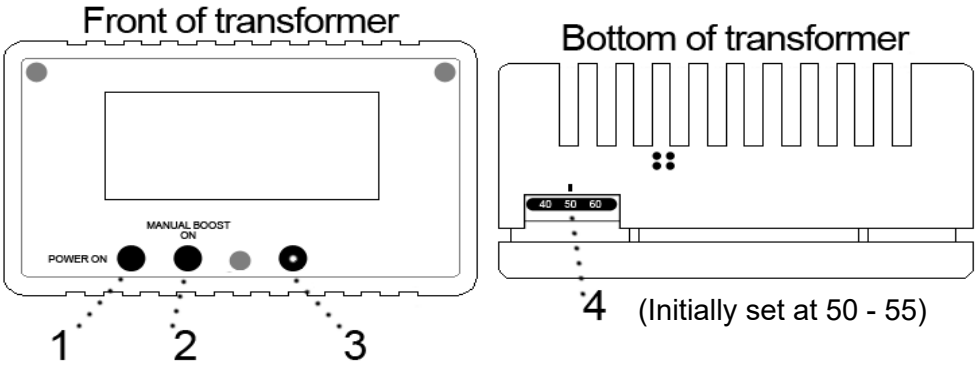
The Remote Humidistat Unit can be described as the brains of the KHRV150 and will control the humidity and airflows automatically.

Control options are:

- Manual pullcord
- Night sensor
- Automatic humidity control

The humidistat monitors the humidity in the room and automatically switches the ventilator from continuous trickle speed to boost if the humidity exceeds the set point e.g. when using the shower, cooking or doing the laundry.

The humidity level setting can be adjusted by turning the thumbwheel. We recommend that it is initially set to 50% - 55% which is suitable for most locations. Turning the thumbwheel clockwise towards 90 decreases the sensitivity (fan in boost for shorter time) and anticlockwise towards 20 increases the sensitivity (fan in boost for longer time) and is marked in 10% stages.



1)	**ON** = Main power.
2)	**ON** = Manual boost override. **OFF** = Automatic humidity control.
3)	Pullcord for manual boost control.
4)	➡ Turn anticlockwise towards 20 to increase sensitivity (Fan on boost for longer).
	⬅ Turn clockwise towards 90 to decrease sensitivity (Fan on boost for shorter time).

During installation the equipment can also be primed with a light sensor to override boost mode during the hours of darkness. This facility is usually offered as an option when being installed in a bedroom.

How much does it cost to run?

The KHRV150 is a low voltage machine (SELV). Running costs in the form of electricity consumption are approximately 25p per week*. However moisture laden air requires substantially more energy to heat and reducing moisture levels combined with heat recovery will mean the unit should save you money. By contrast, an extractor fan used to remove the same amount of air would cost an extra £2.50 per week just to maintain heating levels within the property**.

** Based on 95% trickle and 5% boost running ratios ie 1 hour a day on boost. 11.5p / kWh - British Gas July 2013.*

*** Based on temperatures of 20°C inside and 0°C outside.*

Cleaning - Front facia extract filters

The Kair KHRV150 has two filters either side of the faceplate and these need to be checked approx 4 times a year. To clean, open the filter covers in the direction indicated by the arrow, remove the filters and wash in warm soapy water, replace when dry. There is no access to the fan or any electrical components during this process.

Washing the filters will ensure a constant clean air supply, and reduction of humidity levels will substantially reduce dust mite activity, particularly of benefit to anyone in the household suffering from asthma or certain respiratory problems.

Full maintenance details can be found in the installation and maintenance instructions.

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