

## Features and Benefits

- Designed for installation in bedrooms.
- Pollen Filter on fresh air supply.
- 70% Heat recovery.
- Helps to eliminate house dust mites.
- Controls condensation.



Model	Stock Ref.
HR30W	37 03 63

The HR30W has been specifically designed to provide balanced ventilation with heat recovery for installation in bedrooms giving virtually silent overnight operation with a daytime boost option. Low velocity and low noise heat recovery ventilation with a pollen filter for improving the internal environment.

The HR30W is a through the wall model, with a range of control and length options. The unit is designed for continuous operation providing up to 70% heat recovery, effectively controlling internal relative humidity. The integral high efficiency pollen filter helps eradicate house dust mites to improve health and indoor air quality. Fresh pre-warmed air from the outside is continuously provided to the room with simultaneous extraction of stale, moist air.

An integral heat exchanger transfers heat from the outgoing stale air to the fresh air supply raising the temperature of the fresh air and most importantly reducing the relative humidity of the supply air. This provides control of condensation and odours and creates conditions which can eliminate house dust mites.

Two speed performance: Low 35m<sup>3</sup>/h and High 50m<sup>3</sup>/h. Specifically designed for installation in the bedroom.

## Typical Specification

Supply and install a HR30W single room through the wall heat recovery unit as manufactured by Vent-Axia Clean Air Systems, Fleming Way, Crawley, West Sussex, RH10 9YX, Telephone: 01293 441520.

Performance:	m <sup>3</sup> /h	l/s
Maximum ventilation rate	50.0	13.89
Normal supply rate	30.0	8.33
Normal extract rate	35.0	9.72
Boost supply rate	40.01	1.11
Boost extract rate	50.01	3.89
N° speed settings	2	

**Efficiency:** the unit should retain up to 70% of the temperature differential of out going air.

**Heat exchanger:** should be of a multi plate cross-flow type constructed out of a polymeric plastic with ultra sonic welded joints.

**Motor:** should be a 2speed 240V 50/60Hz A/C with sleeve bearings, greased for life. It shall operate up to an ambient temperature of 40°C and be fitted with a one shot thermal overload protective device.

**Fan:** The two polymeric fan impellers should be a centrifugal forward curved type, dynamically balanced mounted on a common shaft.

**Controls:** the unit should be operated via a remote Trickle Boost Switch or via various automatic sensors. A light switch can be used providing a 'timed out' device is employed.

**Filter:** should be a reticulated foam type coarse filter on the extract air and a EU2 pollen filter on the supply air.

**Condensation:** The outlet should be via drain holes in the lower part of the external grille.

**Construction:** the unit outer case is manufactured from white powder coated sheet metal with a white ABS internal grille and a grey UV stabilised PVC outer grille.

**Sound Levels:** Refer to adjoining table for sound level performance on page 53.

**Mains electrical supply:** 230VAC 50Hz.

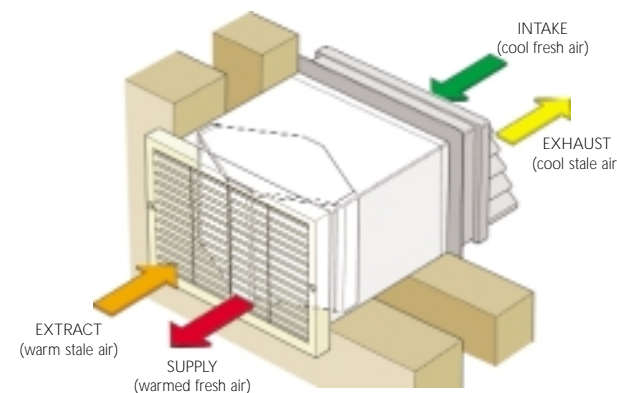
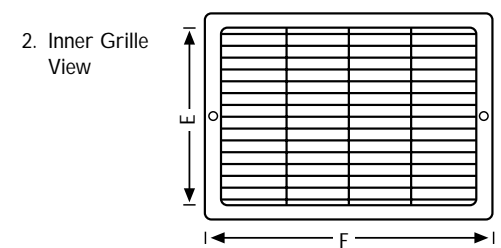
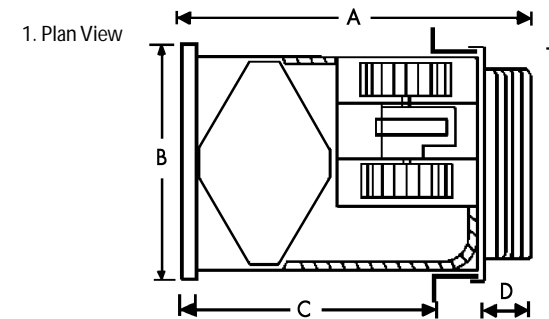
**Power Consumption:** Normal (10.0W)  
Boost (23.0W)

**Complies to the following approvals/ directives:**

LVD, EMC, and CE.

## Dimensions (mm)

A	B	C	D	E	F	G	Weight
370	270	220-280	68	155	235	190	4.85



## Typical Installation

Vent-Axia HR30W units require a 240mm x 160mm hole. Units should be fitted so that they slope towards the outside (nominal 1°) to assist in-built condensate drainage.

The telescopic flange ( adjustable to fit walls 220mm to 280mm thick) covers cutting marks and provides a surface for forming a seal with the external wall surface.

## Power Consumption

Minimum	10.0W
Maximum	23.0W

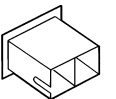
## Sound Levels

Extract Performance		Intake Performance		Watts		Sound Levels	
m <sup>3</sup> /h		m <sup>3</sup> /h				dB(A) @ 3m	
Boost	Trickle	Boost	Trickle	Boost	Trickle	Boost	Trickle
50	35	40	30	23	10	28	N/A

## Maintenance

Apart from removing odours, providing fresh air and recovering heat, this appliance extracts airborne impurities such as dust, dirt and grease. These gradually build up and detract from the efficiency and appearance of the appliance. Therefore to ensure peak performance, the appliance should be cleaned regularly. Filters should be replaced every six months or as conditions necessitate. The heat exchanger and grille should be washed in warm soapy water every twelve months or as conditions necessitate.

## Extension Sleeve - EXT100



For installation in walls from 280mm to 500mm thick. Supplied with white ABS plastic external grille

**Stock Ref. No. 37 04 19**

## Controllers & Sensors

Controller Options					
Trickle Boost Switch	2-Way Switch + Neons	Ambient Response Humidistat	Visionex PIR	TIM2	7 Day Timeswitch
45 52 13	45 97 46	56 35 50	45 96 23	37 03 46	56 35 15

For further details on controls & sensors please refer to pages 98-102. For accessories details, please refer to pages 103-105.

For wiring diagrams details please refer to page 127.