HR25

Unitary Heat Recovery Unit

Features and Benefits

- Designed for installations in bathrooms, toilets, utility areas and small bedrooms.
- 84% temperature based heat recovery.
- Controls condensation & eliminates mould.
- Choice of control options.

Model	Stock Ref:
HR25	37 22 61
HR25H	37 22 62
HR25P	37 22 63
HR25L	37 22 64
HR25LH	37 22 65
HR25LP	37 22 66

The through the wall HR25 range provides a low voltage solution for wet rooms and comes with 3 control options: pullcord, PIR and humidity versions, and available in two lengths. The units offer the latest technology featuring 84% heat recovery and easy, core drill installation. The 2-speed units are fitted with a 24V LoWatt Energy Saving DC motor with state of the art switch mode power supply. **These units have the ability to operate at a power consumption of under 2 Watts running at trickle speed.** A 5m cable is provided for fixed wiring the unit to the S.M.P.S. Requiring only 152mm core drill, the units are suitable for walls from 310mm up to 425mm thick.

Two speed performance: Low 20m³/h and High 55m³/h. For use in bathrooms and WC's.

Typical Specification

Supply and install a HR25 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:	**m³/h**	**l/s**
Maximum ventilation rate	54.8	15.2
Normal supply rate	7.8	2.1
Normal extract rate	15.7	4.3
Boost supply rate	35.7	9.9
Boost extract rate	54.8	15.2
N° speed settings	2	

Efficiency: the unit should retain up to 84% of the temperature differential of out going air.

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

Motor: should be 24V DC with sleeve bearings, greased for life. The motor shall operate up to an ambient temperature of 40°C and be fitted with a thermal overload protective device.

Fan: impeller should be a polymeric centrifugal backward curved type. Configured as a split single wheel.

Controls: the unit should be operated via integral pull cord switch, PIR or humidistat.

Filter: should be a reticulated foam type coarse filter.

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

Construction: the unit outer case should be terracotta coloured extruded ABS wall tube with black EPDM wall seals and terminating in a weather cowl. The internal grille should be white ABS.

Sound Levels:	**dB(A) @3m**
Trickle:	16.8
Boost:	49.2

Mains electrical supply: 230VAC 50Hz.

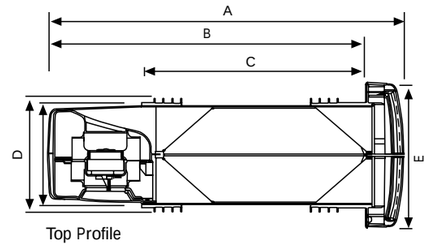
24V dc Power supply: should be derived from a switch mode type device (S.M.P.S.).

Complies to the following approvals/ directives:

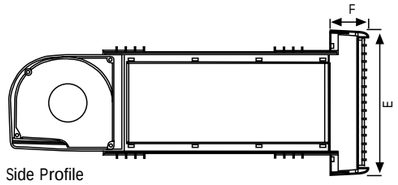
LVD, EMC and EN60335-1.

Dimensions (mm)

	A	B	C	D	E	F	Weight
Standard	508	451	318	147	204	54	3.4
Long	666	548	433	147	204	54	3.5



Top Profile



Side Profile

Models

HR25 - The HR25 is fitted with a pull cord switch which operates the twin speed control function.

HR25H - The HR25H is fitted with an adjustable humidity sensor which automatically switches between its high and low settings depending on the relative humidity in the room.

HR25P - The HR25P has an Infra-red sensor which detects a person moving in the room, this then activates the unit to switch to its higher setting. This unit can operate under two different modes, direct action and delayed action.

HR25L - An extended version of the HR25 is available, designed for installations where the wall thickness is between 311mm and 425mm.

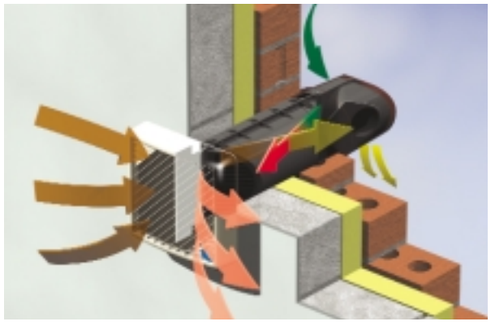
HR25LH - An extended version of the HR25H is available, designed for installations where the wall thickness is between 311mm and 425mm.

HR25LP - An extended version of the HR25P is available, designed for installations where the wall thickness is between 311mm and 425mm.

Power Consumption

Normal	1.9W
Boost	25.1W

Typical Installation



The HR25P unit is designed for installation in a 152mm (6") core drilled hole. All installations can be carried out from inside the building. The standard units are suitable for external walls up to 310mm thick. For thicker walls extended models are available, suitable for walls up to 425mm thick.

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.

For further details on controls & sensors please refer to pages 98-102.
For wiring diagrams details please refer to page 128.