

Features and Benefits

- Single room residential heat recovery ventilation unit for kitchens/utilities room.
- 3 speed motor.
- Integral washable filter.
- Up to 75% heat recovery.
- Saves energy - controls condensation.
- Extremely quiet on low speed.

Model	Stock Ref:
HR200WK	141 20 020

A heat recovery unit specifically designed for use in residential kitchens and utility rooms to meet the latest building regulations. The compact, self contained unit is designed for through wall mounting. The unit has a constant trickle ventilation boosted by a remote humidistat or a 3 speed controller. The compact, self contained unit is designed for through the wall mounting. An optional range of sensors are available.

The efficient, polymeric heat exchanger cube will recover up to 75% of the heat from the extracted air, which would otherwise be lost, and transfers this to the intake air. This reduces heating bills whilst maintaining extraction of cooking odours and steam without cross contamination of the airflows. Available in three speeds: 60, 110 and 220m³/h. Suitable for installation in a kitchen.

The unit is also suitable for light commercial requirements up to 220m³/h.

Typical Specification

Supply and install a HR200WK 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 ³ /h	l/s
Maximum ventilation rate	200.0	55.55
Low supply rate	50.0	13.88
Low extract rate	60.0	16.66
Normal supply rate	100.0	27.77
Normal extract rate	110.0	30.55
Boost supply rate	200.0	55.55
Boost extract rate	220.0	61.11
N° speed settings	3	

Efficiency: the unit should retain between 65% - 75% 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 sonic welded joints.

Motor: should be a 3-speed 240V 50Hz 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 wheels should be a centrifugal forward curve type on a common shaft.

Controls: the unit should be operated via a remote 3 Position switch, humidistat or a humidistat.

Filter: should be a washable reticulated foam type coarse filter.

Construction: the unit outer case should be manufactured from brown powder coated sheet metal terminating in an external weather cowl. The internal grille should be white ABS.

Sound Levels:	dB(A) @ 3m	
	Trickle	19.0
Medium		33.0
Boost		46.0

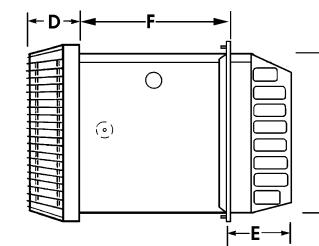
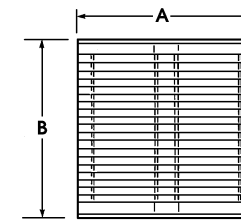
Mains electrical supply: 230VAC 50Hz.
Class 1 earthed appliance.

Complies to the following directive:

CE.

Dimensions (mm)

A	B	C	D	E	F	Weight
270	270	245	85	68min	335max	9.7kg



Wall fixing hole 250mm x 250mm sq.

Heat Exchanger

The compact cube interleaves outgoing moist warm air with incoming fresh air and allows the heat from one to warm the other without the two air streams mixing. Up to 75% of the heat, which would otherwise be lost, is transferred to the intake air, ensuring energy saving balanced ventilation.

The incoming air is tempered when it passes over the heat exchanger providing the room with drier air, therefore the humidity level drops due to the constant air movement preventing the air inside the room from becoming saturated with moisture. Energy is saved on room heating with no power being used by the cube itself.

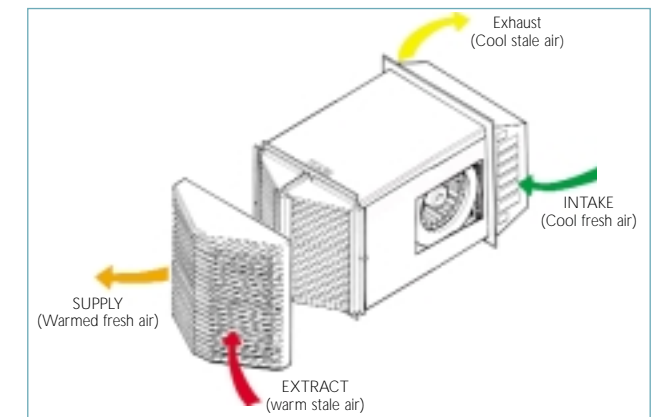
Maintenance

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. Quick release grilles give instant access to the integral washable filters. The heat exchanger and grille should be washed in warm soapy water every twelve months or as conditions necessitate.

Power Consumption

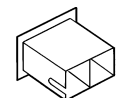
Low	25.0W
Medium	60.0W
Boost	140.0W

Easy Installation



The HR200WK fits through walls up to 335mm thick requiring a fixing hole 250mm square. The internal grille has washable, polymeric foam supply and extract filters. Only the neat internal twin grille visible from the room.

A wall extension sleeve is available.



Extension Sleeve

Galvanised mild sleeve extension sleeve for use with HR200WK on walls between 335mm to 550mm thick.

Stock Ref. No. 37 04 21

Controllers & Sensors

Controller Options					
3 Speed Controller	Electronic 1.5A Controller	Ambient Response Humidistat	Visionex PIR	TIM2	7 Day Timeswitch
56 35 33	W30 0310	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 wiring diagrams details please refer to page 131.