HR300RW6

Through the Wall Commercial Unit

Features and Benefits

- Balanced supply and extraction.
- 70% Heat Recovery.
- Spigots to suit 150mm Ducting.
- Lightweight Polymeric construction.

Model	Stock Ref:
HR300RW6	37 04 03

The HR300RW6 is a semi-remote unit designed for mounting in an external wall. Two 150mm diameter spigots are provided for ducting connection to internal supply and extract grilles. The unit provides balanced supply and extraction with up to 70% heat recovery. Controlling internal relative humidity, the HR300RW6 unit controls condensation and eliminates mould.

Fresh pre-warmed air from outside is continually provided to the room with simultaneous extraction of stale air and smells. Heat is transferred via a unique plastic heat exchanger from outgoing air to the fresh air supply with zero cross contamination, maintaining internal temperatures and providing a fresh environment.

Available in three speeds: 75, 210 and 280m^3/h. It is ideal for offices, changing rooms and examination rooms, etc.

Typical Specification

Supply and install a HR300RW6 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	280.0	77.77
Low supply rate	70.0	19.44
Low extract rate	75.0	20.83
Normal supply rate	190.0	52.78
Normal extract rate	210.0	58.34
Boost supply rate	270.0	75.0
Boost extract rate	280.0	77.77
N° speed settings	3	

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 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 manual reset thermal overload protective device.

Fan: The 2-N° polymeric fan impeller should be of a mixed flow type in a fixed stator housing.

Controls: the unit should be operated via a dedicated remote 3-speed controller with sensor option to allow for humidistat or PIR input.

Ducting spigots: the unit should have 2-N° 150mm Ø x 50mm spigots. One each for the supply and extract airflows.

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

Construction: the unit outer case should be a rigid ABS moulding. The external grille should be a cream coloured ABS moulding. The internal spigot plate should be back vacuum formed PVC.

Sound Levels:	**dB(A) @ 3m**
Trickle	37.0
Medium	40.0
Boost	44.0

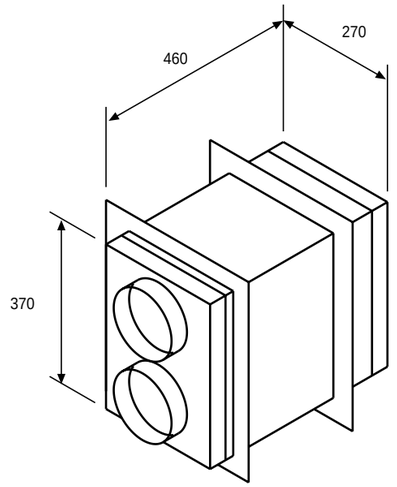
Mains electrical supply: 230VAC 50Hz.

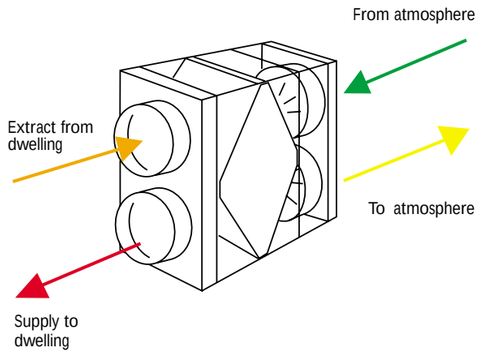
Complies to the following approvals/ directives:

LVD, EMC, CE.

Dimensions (mm)

Weight: 11 kg





Installation

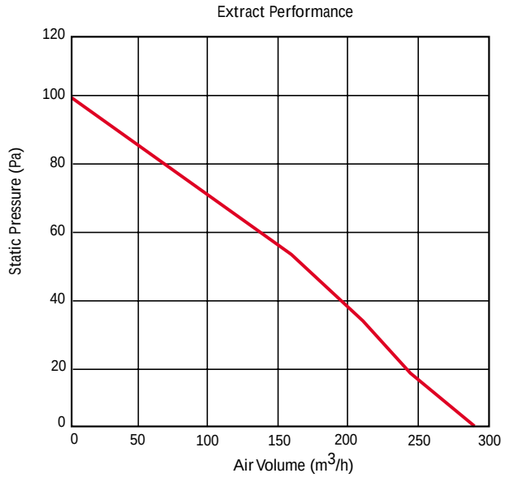
The HR300RW6 is designed for installation in an external wall providing (150mm) diameter spigots on the inner plate for ducted extraction and fresh air supply.

The unit requires a 280mm wide and 380mm high hole and is mounted through the wall in a vertical position. The HR300RW6 requires a minimum overhang of 70mm on the outside and 50mm inside. Units should be level to assist in-built condensate drainage.

Power Consumption

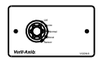
Maximum	108.0W

Performance



Extract Performance m³/h			Supply Performance m³/h		
Trickle	Medium	Boost	Trickle	Medium	Boost
75	210	280	70	190	270

Controllers & Sensors

Controller Options			
 Electronic 1.5A Controller	 Ambient Response Humidistat	 TIM2	 Speed Control Switch (VCON6)
W30 03 10	56 35 50	37 03 46	37 03 56

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 133.