

Features and Benefits

- Designed for continuous operation, providing up to 70% heat recovery.
- Controls condensation and eliminates mould.
- Speed controllable.
- Quiet operation.
- Washable filters

Model	Stock Ref:
HR300	37 03 94

The HR300 unit incorporates 2 specially developed mixed flow fans for low noise and efficiency, with up to 70% heat recovery. Effectively lowering internal relative humidity the HR300 unit controls condensation and eliminates mould growth. Designed for through the wall mounting.

Fresh, pre-warmed air from outside is continually provided to the room with simultaneous extraction of stale moist air and smells. Heat is transferred via a unique plastic heat exchanger from outgoing air to the fresh air supply with no cross contamination, maintaining internal temperatures and providing a fresh environment. The unit is fully controllable for speed using a small dedicated speed controller. Automatic ON/OFF control or switching to boost is easily achieved using sensors/timers e.g. humidistat. For summer operation the heat exchanger can be removed and replaced with a plastic divider board to provide positive cooling to rooms.

Available in three speeds: 75, 210 and 300m³/h. It is ideal for light commercial applications including function rooms, offices and classrooms.

Typical Specification

Supply and install a HR300 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	300.0	83.33
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	300.0	83.33
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 and 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 impellers should be of a mixed flow type, dynamically balanced mounted on a fixed stator housing.

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

Back Draught Shutter: the unit should have the option back draught shutter operated via a thermal actuator set to close when unit is powered down.

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

Construction: the unit outer case should be a rigid ABS moulding. The internal/external grille should be a cream coloured ABS moulding.

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

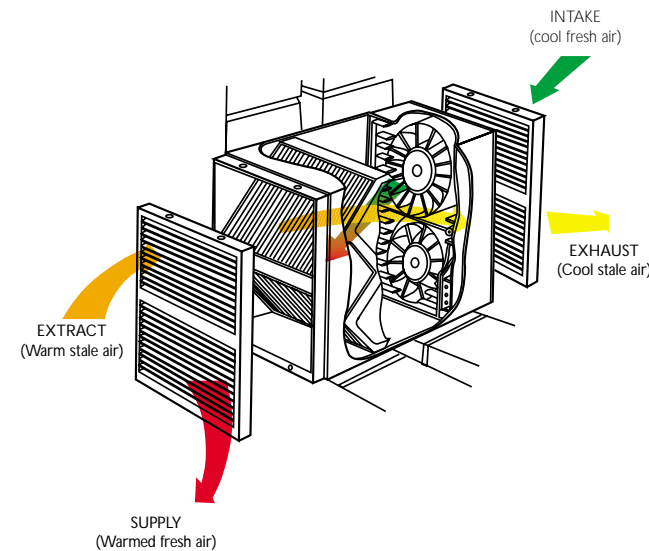
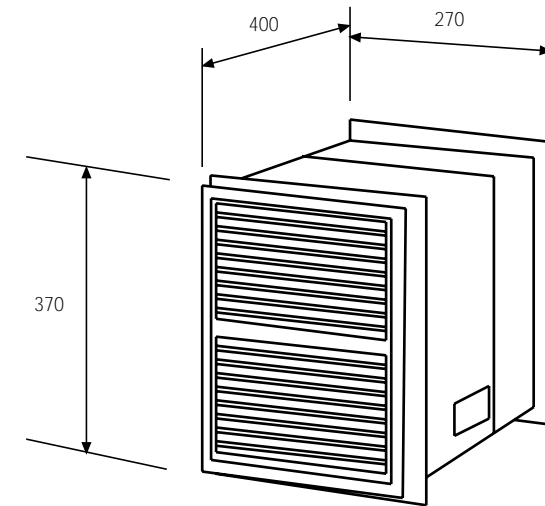
Mains electrical supply: 230VAC 50Hz.

Complies to the following approvals/ directives:

LVD, EMC and CE.

Dimensions (mm)

Weight: 11 kg



Installation

The HR300 unit requires a 380mm x 280mm hole. Units should be level and square in the wall. The unit should be fitted so that it overhangs by minimum of 50mm on the inside, and a minimum of 70mm on the outside. An extension sleeve is available for walls up to 650mm thick.

Power Consumption

Maximum	108.0W
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Performance

Extract Performance m ³ /h			Supply Performance m ³ /h		
Trickle	Medium	Boost	Trickle	Medium	Boost
75	210	300	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 wiring diagrams details please refer to page 132.