



This MVHR - WHHR125DC - Aera - is an EST Best Practice Performance Compliant, efficient, low energy solution to controlling condensation and pollution. It provides low level continuous ventilation in a kitchen and up to six wet rooms, extracting moist, polluted air and replacing it with fresh, filtered air - recovering up to 93% of the heat from the outgoing flow.

The user can to boost to maximum performance when required. The WHHR125DC - Aera is easily installed in a cupboard or loft. The noise level and running costs are extremely low, and it is compliant with Parts L and F of the Building Regulations

## WHHR125DC - Aera

### Technical Characteristics

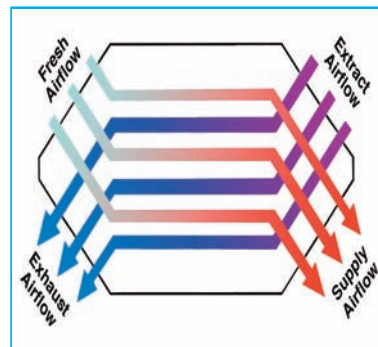


#### FEATURES

- **SAP Q eligible** (MVHR) residential whole house heat recovery unit for providing continuous ventilation in kitchen and up to 6 additional wet rooms
- maximum airflow 80 l/sec
- suitable for areas up to 230m<sup>2</sup>
- 93% of heat recovered from stale air extracted from warm, moist rooms replacing it with fresh, filtered, warmed air to create a constant, comfortable, healthy environment
- easy to install vertically into lofts, false ceilings or cupboards - a wall fixing bracket is supplied
- variable choice of low (trickle) speed and boost options for optimum setting at installation
- the boost speed can be triggered by a switched live connection from a range of devices:
  - PIRFF (passive infra red)\*
  - DRH240 (dynamic remote humidistat)\*
  - THM (thermostat)\*
  - a light switch (if more than one light switch is used, **each one must be a double pole switch**)
  - a remote switch/pull cord
- [\*PIRFF, DRH240 and THM may have integral over-run timer which controls the length of time that the fan will continue to operate at its boost speed after the boost has been switched off.]
- low noise levels
- low running costs
- gives extra security by removing need to open windows
- 3 year warranty
- Vectaire Ltd can supply all accessories for use with these units, including air filter cassettes, silencers, fire dampers, air valves, ducting, outside grilles and wall cowls

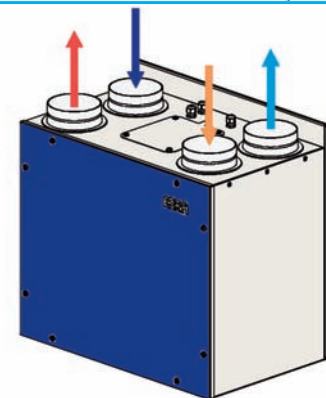
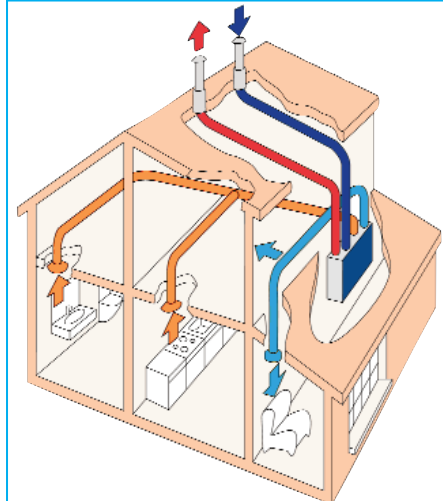
#### SPECIFICATION

- compact unit
- casing manufactured from galvanised sheet with an epoxy finish
- thermo-acoustic lining in polypropylene to prevent thermal bridging to outside
- low energy DC brushless motor for optimum combination of high performance, low noise levels and low energy consumption
- impellers are single width, single inlet, direct drive and forward curved for higher efficiency
- operates in temperature up to 60°C
- uses standard, disposable G4 filters
- complete with thermostat/frost stat for automatic switching off the intake fan when outside temperatures are unusually low
- 2 condensation drains for differing climatic conditions
- counter flow heat exchanger for greater efficiency and increased separation of airflows



Vectaire Ltd offers a design service to ensure that the unit installed is the best possible to provide efficient, effective, low energy and low running cost ventilation. Vectaire can also organise installation and commissioning of these products

#### LOFT OR WALL INSTALLATION



- Incoming fresh air
- Warmed fresh air
- Extracted warm, moist, stale air
- Cooled outgoing stale air
- WHHR125DC - Aera

#### COMPLIES WITH

- Part L1A and L1B of Building Regulations for enhanced energy saving capability
- Part F of Building Regulations for reliable, efficient ventilation
- EU RoHS Directive Compliant.
- Conforms to requirements of EC Council directives relating to Electromagnetic Compatibility and Electrical Safety: 2006/95/CE (LVD), 2004/108/CE (EMC), EN 60335-2-80
- CE marked
- **SAP Q eligible**
- **EST Best Practice Performance Compliant**



# WHHR125DC - Aera

## Technical Characteristics - SAP Results



RESULTS for SAP CALCULATIONS				
ENERGY LEVEL PERFORMANCE - using rigid ducting only				
Exhaust Terminal Configuration	Fan Speed Setting	Specific Fan Power (W/l/s)	Heat Exchange Efficiency (%)	EST Best Practice Performance Compliant
Kitchen + 1 additional wet room	100% variable	0.62	93	Yes
Kitchen + 2 additional wet rooms	100% variable	0.60	93	Yes
Kitchen + 3 additional wet rooms	100% variable	0.64	92	Yes
Kitchen + 4 additional wet rooms	100% variable	0.74	91	Yes
Kitchen + 5 additional wet rooms	100% variable	0.83	90	Yes
Kitchen + 6 additional wet rooms	100% variable	0.98	90	Yes

Figures from BRE test results at minimum flow rate conditions

RESULTS for Approved Document F			
Exhaust Terminal Configuration	Fan Speed Setting	Total Exhaust Flow Rate (l/sec)	Total Supply Flow Rate (l/sec)
Kitchen + 1 additional wet room	100% variable	15.0	15.0
Kitchen + 2 additional wet rooms	100% variable	21.0	21.0
Kitchen + 3 additional wet rooms	100% variable	27.0	27.0
Kitchen + 4 additional wet rooms	100% variable	33.0	33.0
Kitchen + 5 additional wet rooms	100% variable	39.0	39.0
Kitchen + 6 additional wet rooms	100% variable	45.0	45.0

Figures from BRE test results at minimum flow rate conditions

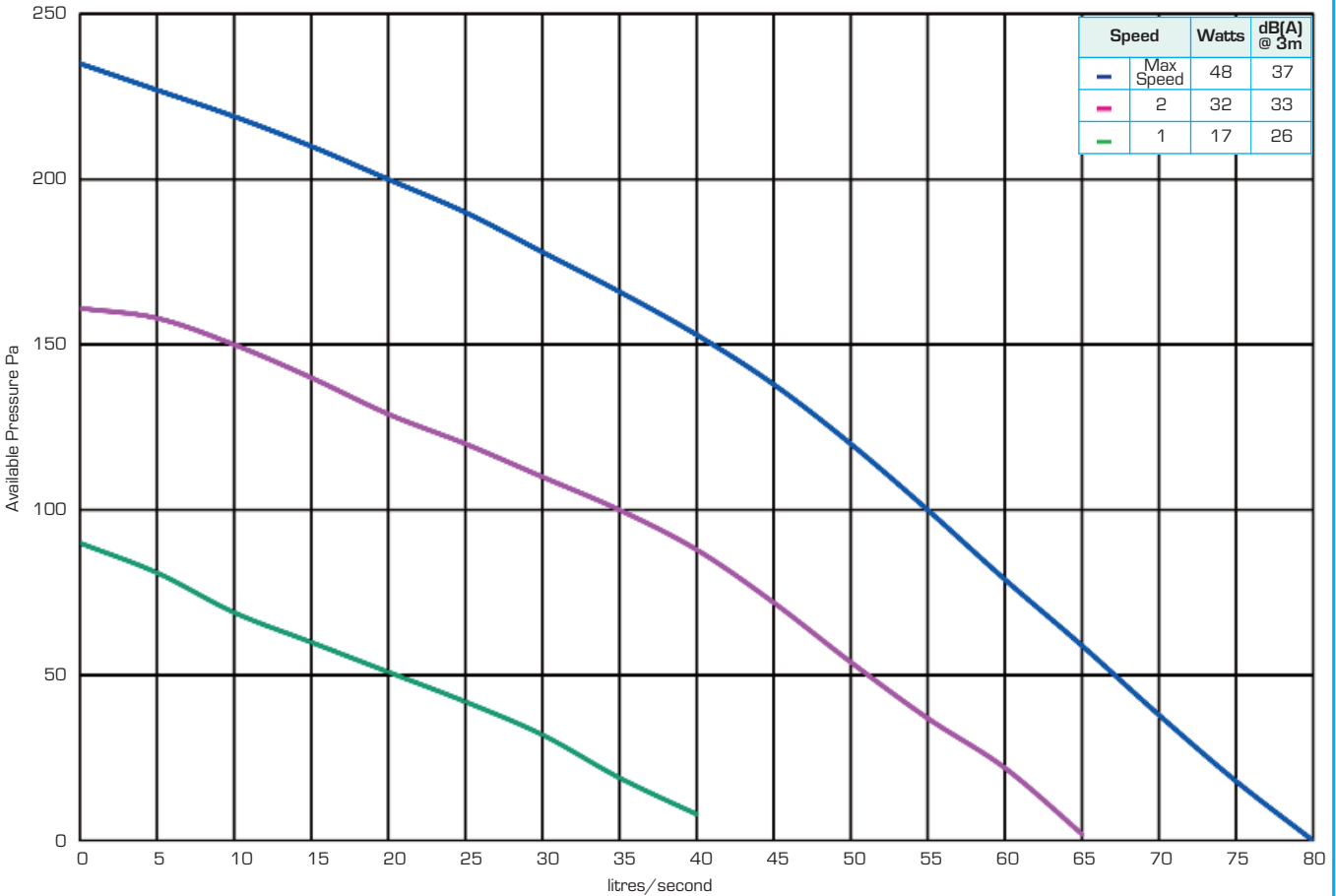
# WHHR125DC - Aera



## Technical Characteristics - Performance & Dimensions



curves are for guidance only



### Dimensions (mm)

