



## WHHR100/90DC

- The unit will:
  - > be manufactured by Vectaire Ltd.
  - > be constructed from galvanised sheet steel and will have thermo-acoustic lining to ensure extremely low noise levels.
  - > be suitable for installation in-line in ceilings, voids or lofts
  - > be pre-wired for easy electrical connection
  - > have a very low profile - only 200mm deep
  - > have drain connections for connection by others..
  - > have a high efficiency counterflow heat exchanger with a thermal efficiency of up to 79% .
  - > have two low energy, high efficiency EC fan motor assemblies.
  - > have a specific fan power from 0.71 W/l/s.
  - > have G3 grade filters to protect the heat exchanger.
  - > have frost protection
  - > boost speed can be activated by a 230V switched live, or a 0-10V connection from:
    - a light switch (if more than one light switch is used, **each one must be a double pole switch**)
    - remote humidistat (230V - DRH240)
    - passive infra red (230V - PIRFF)
    - thermostat (230V - THM)
    - remote switch/pull cord - 230V
- Access to filters shall be from the top or bottom.
- The unit shall incorporate the following control features:
  - Standard**
  - > independent variable speed adjustment for each motor for trickle, boost and purge speeds.
  - > adjustable boost speed over run timer from 0 to 30 minutes.
  - > adjustable boost speed delay from 0 to 5 minutes
  - > adjustable purge speed over run timer from 0 to 250 minutes, preset to 15 minutes (adjustable at factory).
  - > adjustable night time boost and purge inhibitor
  - > integral frost-stat - proportionally reduces intake motor speed as temperature falls
  - > 0-10V connections can be added for:
    - BMS - for remote motor shut-off
    - CO<sub>2</sub> detector
    - home automation system
    - external pre-heater
    - 3 speed selector switch
- The unit will:
  - > be CE marked
  - > comply with:
    - Part L1A 2013 of Building Regulations for enhanced energy saving capability
    - Part F 2013 of Building Regulations for reliable, efficient ventilation
    - EU RoHS Directive Compliant
    - IEC60335-2-80, LVD2006/95/CE and
    - EMC2014/30/UE (European Directive against radio interference and electro-magnetic compatibility
    - Be SAP PCDB Listed
  - > manufactured in UK to ISO 9001
  - > have a 5 year warranty -1 year parts and labour and 4 years parts only
- Please contact your Vectaire representative via Head Office on 01494 522333 for any assistance.
- An electronic copy of this specification is available on request.