



WHHR100/90DC-B-BY

- The unit will:
 - > be manufactured by Vectaire Ltd.
 - > be constructed from galvanised steel sheet with an epoxy finish and have thermo-acoustic lining to ensure extremely low noise levels.
 - > be suitable for installation in-line in ceilings, voids or lofts
 - > have drain connections for connection by others..
 - > have a high efficiency counterflow heat exchanger with a thermal efficiency of up to 92% .
 - > have two low energy, high efficiency EC fan motor assemblies.
 - > have a specific fan power from 0.63 W/l/s.
 - > have G3 grade filters to protect the heat exchanger.
 - > have an automatic summer bypass
 - > have an integral frost-stat
 - Access to filters shall be from the bottom by removing two magnetic strips.
 - 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
 - > summer bypass - automatic bypass of heat exchanger in hot weather
 - Factory Set**
 - > change of ductwork handing on humidistat version (trip point can be set at manufacture)
 - > integral humidistat - proportionally increases motor speeds with rising humidity
 - > 0-10V connections can be added for:
 - BMS - for remote motor shut-off
 - CO₂ detector
 - home automation system
 - external pre-heater
 - 3 speed selector switch
 - > purge speed over-run time
 - > holiday mode for reduced speeds when property is unoccupied (factory set option)
 - > run-time and power outage counters downloadable via QR code.
- Remote (optional) LCD touch screen informs user of:
 - > operating speed (user adjustable)
 - > internal and external temperatures
 - > status icons shows which functions currently controlling fan speed
 - > date and time (user adjustable)
 - > relative humidity level
 - > bypass status
 - > error and service notifications
 - > filter saturation level (reset after changing)
 - > user can also set system to holiday mode and set language
 - An LCD Commissioning Kit will allow the commissioning engineer or installer to set the following parameters:
 - > Time and Date
 - > Holiday Mode
 - > Trickle, boost and purge speeds for each motor
 - > Boost speed delay time duration
 - > Boost over-run time duration
 - > Night time boost inhibitor times
 - > Touch screen sensitivity calibration
 - > Pre-heater threshold (if fitted)
 - > Handed installations
 - > Activate CO₂ detector or home automation system (if fitted)
 - 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.