



## EVO250

- The unit will:
    - > be manufactured by Vectaire Ltd.
    - > be constructed from galvanised steel sheet, be no more than 250mm deep, 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 88% .
    - > have two low energy, high efficiency EC fan motor assemblies.
    - > have a specific fan power from 0.70 W/l/s.
    - > have G3 grade filters to protect the heat exchanger.
    - > have an automatic summer bypass
    - > have an integral frost-stat
  - Units without humidistats shall be capable of being handed for left or right mounting without any on-site assembly.
  - 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 90 minutes.
      - > adjustable boost speed delay from 0 to 5 minutes
      - > remote purge cable connection on circuit board (for optional purge facility)
      - > 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 (humidity threshold 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
        - CO<sub>2</sub> detector
        - home automation system
        - external pre-heater
        - 3 speed selector switch
      - > optional remote purge cable - factory connected - adjustable over-run timer from 0 to 250 minutes, Pre-set to 15 minutes (adjustable at factory)
      - > 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 CO<sub>2</sub> detector or home automation system (if fitted)
  - The unit will:
    - > be CE marked
    - > comply with:
      - Building Regulations for enhanced energy saving capability
      - 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)
    - > manufactured in UK to ISO 9001
    - > be SAP PCDB Listed
    - > 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.