



# Mini Bypass

- The unit will:
  - > be manufactured by Vectaire Ltd.
  - > be constructed from galvanised steel sheet with a thermo-acoustic lining to ensure extremely low noise levels.
  - > for 1 or 2 bedroom apartments, hotel rooms, student accommodation, extra care facilities, multi-purpose occupancy etc
  - > for fitting into voids, false ceilings or cupboards (bottom access only)
  - > have drain connection for connection by others.
  - > have a high efficiency counterflow heat exchanger with a thermal efficiency of up to 83% .
  - > have two low energy, high efficiency EC fan motor assemblies.
  - > have a specific fan power from 1.11 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 rear 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 - adjustable over-run timer from 0 to 250 minutes, pre-set 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
      - CO<sub>2</sub> detector
      - home automation system
      - external pre-heater
    - > 3 speed selector switch
    - > remote purge
    - > 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
- A Commissioning Kit (or LCD touch screen) 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:
    - 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)
  - > 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.