



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 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
 - CO₂ 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
- 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 CO₂ 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 9001:2015 and 14001:2015
 - 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.