



Midi-BY-AT

- The unit will:
 - be manufactured by Vectaire Ltd.
 - be constructed from steel sheet with an epoxy paint finish and the case lined and insulated with Class "O" fire resistant acoustic foam to ensure extremely low noise levels.
 - be suitable for installation on walls, in cupboards or in lofts.
 - have a condensate tray and drain connections for connection by others.
 - have a high efficiency counterflow heat exchanger with a thermal efficiency of up to 94%
 - have two low energy, high efficiency EC fan motor assemblies.
 - have a specific fan power from 0.50 W/l/s.
 - have two G3 grade filters to protect the heat exchanger
 - will operate in temperature up to 60°C
 - 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 front 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.
- 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
- (Loft mounted units can be provided with a remote LCD touch screen).
- The 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.