



Air Handling Units ECOBOX - EBX

1.1 General

A. Provide a ventilation plate heat exchanger unit to meet the performance and configuration as indicated in the schedule and detail drawings. The unit shall be the ECOBOX - EBX plate heat exchanger type as manufactured by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

1.2 Unit Construction

A. The unit shall be supplied pre-assembled consisting of a single-skinned heavy gauge galvanised steel case, exhaust condensate drain pan and plastic plate cross flow heat exchanger.

B. The unit shall be available in plantroom or weatherproof construction as indicated in the schedule and detail drawings. Weatherproof units shall have a sloped lid supplied fitted as standard.

C. The unit shall be supplied with a built-in galvanized sheet steel condensate drain pan as standard.

D. The unit shall have circular duct spigots complete with rubber gasket seals as indicated in the schedule and detail drawings.

E. The unit shall be internally lined with thermal & acoustic insulation foam as standard.

F. The casework shall incorporate mounting brackets compatible with drop-rod systems.

G. The plantroom unit casework shall be supplied naturally finished in high quality galvanised steel as standard. Optional internal or external powder coat colour as indicated in the schedule.

H. Access for maintenance shall be via a removable service lid, allowing access for the cleaning or removal of internal components where permitted by unit construction.

I. The unit shall be designed to be secured to a suitable base, wall or ceiling, ensuring the use of correct fixings for the application and taking into account individual unit weight as indicated in the schedule and detail drawings.

J. Weatherproof units shall be fitted with a weather lid.

K. Weatherproof units shall be supplied powder coated Signal Grey RAL7004 as standard. Alternative colour according to schedule.

L. Weatherproof units shall be supplied with mounting feet. Plantroom units shall be available with optional mounting feet as indicated in the schedule.

1.3. Plate Heat Exchanger

A. The unit shall be supplied with a full PVC plate heat exchanger with a minimum efficiency of 50%.

B. The plate heat exchanger shall incorporate a 100% recycled exchange matrix and heavy gauge PVC framework as standard.

C. The plate heat exchanger matrix shall be aerodynamically designed, with built-in spacers ensuring a constant plate separation.



D. The plate heat exchanger shall be available with optional virgin plastic exchange matrix for corrosive environments as indicated in the schedule.

1.4. Drain Pan

A. The drain pan shall be situated on the extract air off side of the heat exchanger as standard.

B. The drain pan shall be designed for on-site positioning to suit schedule.

C. The drain pan discharge connection shall be 15mm plain PVC stub type.

D. The drain pan shall be manufactured in galvanised sheet steel & finished in natural uncoated finish as standard.

1.5. Operation Environment

A. The unit is designed to operate in ambient temperatures from -20°C up to 60 °C, and can be used continuously at up to 100% humidity level with a correctly installed drain pan.

Download specification from www.ves.co.uk/information-centre