

Product Specification

Ecovent® Wheel

1.1. General

- A. Provide an air handling unit to meet the performance and configuration as indicated in the schedule and detail drawings. The air handling unit shall be tested to BS EN ISO 5801:2017 and shall be of the Ecovent type as manufactured by VES Andover Ltd, a company accredited with BS EN ISO 9001:2015.
- B. The unit shall conform to the schedule regarding case construction, component layout & finish. The detail drawings shall be supplied for approval where indicated in the schedule.

1.2. Unit Construction

- A. The unit shall be provided pre-assembled comprising a rigidly constructed tubular aluminium case & double skinned galvanised sheet steel panels.
- B. The unit shall be constructed to BS EN1886 standard & fully BSRIA tested for compliance to -
 - Deflection rating class D1
 - Leakage class L1
 - Thermal transmittance classes of T1
 - Thermal bridging TB1.
 Testing certificates shall be available on request.
- C. Unit sizes 1-7 will be supplied as one piece, and units 8-10 shall be supplied in multiple sections for transporting & site installation as indicated in the schedule & detail drawings. The unit shall be pre-drilled & gusseted for sectional re-assembly on-site by others as indicated in the detail drawings and O&M documentation.
- D. The unit shall be available in a partially disassembled 'flat pack' form for ease of installation with awkward on-site access. Flat pack units shall be reassembled on-site by VES technical personnel as indicated in the schedule.
- E. The unit shall be available in plantroom or weatherproof construction as indicated in the schedule and detail drawings. Weatherproof units shall have an extended pitched lid supplied fitted as standard.
- F. The unit shall have component arrangement as indicated in the schedule & detail drawings.
- G. The unit shall have rectangular connections compatible with Mez flange connections as indicated in the schedule and detail drawings.
- H. The unit casework shall incorporate high quality leak resistant EPDM memory retaining clip-on gaskets on service & access panels.

- I. Unit casework shall be available with optional double-glazed inspection portholes supplied fitted as indicated in the schedule & detail drawings.
- J. The case panels shall be filled with expanded polystyrene infill as standard.
- K. The case tubes shall be unfilled.
- L. Units shall have access as indicated in the schedule & detail drawings. Where unit access details are not supplied, the unit shall be handed LHS looking in direction of supply airflow as standard, to be confirmed by drawing approval.
- M. Plantroom unit casework & spigots shall be supplied naturally finished in high quality galvanised steel as standard.
- N. Weatherproof units shall be supplied powdercoated signal grey RAL7004.
- O. The casework shall be available with internal epoxy powder coating suitable for coastal or corrosive environments as indicated in the schedule & detail drawings.
- P. The unit shall be designed to be secured to a suitable base or support frame, ensuring the use of correct fixings for the application and taking into account individual section & overall unit weight as indicated in the schedule and detail drawings.

1.3. Unit Base Frame

- A. The unit shall be supplied as standard on galvanised sheet steel channel base.
- B. The frame shall be 100mm high as standard, height as indicated in the schedule & detail drawing.
- C. The frame shall be available with lifting slots, suitable for use with strops or fork lifts.
- D. The frame shall be finished to match the unit casework.

1.4. Inlet/Outlet Cows

- A. Weatherproof unit casework shall be supplied with fresh air inlet & exhaust discharge cowl/louvers where indicated in the schedule & detail drawing.
- B. Cows shall be single skinned galvanised sheet steel, finished to match the unit casework.
- C. Cows shall be available with optional flame retardant acoustic internal lining to ensure maximum thermal insulation and reduced noise transmission.

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

Product Code Guide

Ecovent® Wheel						Unit options						Ancillaries Examples		
Product	HREC type	Unit size	Fan type	Fan size	Phase	Unit config	Main heating	Case construction	Wheel type	Handing	Colour	Name	Part no.	
EV	W	01	6	02	-1	/SP	[null]	/TB	/C	/L	[null]	Control panel	CPB0-1/18KW-3/P/C	
		02	6	02	-1	/SW	-E	/EE	/H	/R	/R7004	Electric heater battery	EHEVW1/18KW/1X3	
		03	6	03	-1		-W		/S				Valve & actuator kit	EVWCWKT100
		04	6	03	-1								Silencer	EVVWA100/SS/1200
		05	6	06	-3									
		06	6	08	-3									
		07	6	09	-3									
		08	6	10	-3									
		09	6	09	-3									
		10	6	09	-3									

Product
EV

Example codes

Plantroom EVW02602-1/SP-E/TB/C/L
Weatherproof EVW04603-1/SW-W/EE/H/R

Unit config.
/SP = Stacked plantroom
/SW = Stacked weatherproof

Heating
[null] = no heating
-E = electric heating
-W = water heating

Case construction
TB (thermal bridge free)
EE (50mm)

Wheel type
C = condensate
H = hygroscopic
S = Sorption

Colour
null = galv or standard WP