

SAP Appendix Q Testing Results
Central exhaust ventilation system packages used in a single dwelling

Brand Name		Aereco
Model		V4A Premium
Model Qualifier (if applicable)		V4A336EX
Current Manufacturer and Contact Details	Name	Aereco Ventilation Limited
	Address	Unit 2B 4020 Middlemarch Siskin Parkway East Coventry CV3 4SU
	Telephone	024 7630 7736
	Website	www.aereco.co.uk
Original Manufacturer (if different)		
First Year of Manufacture		2010
Last Year of Manufacture		
Testing Body		BRE
Date of test		24/01/11
Serial Number of Product Tested		2010 47
MEV to outside duct type and size		150 & 125mm diameter rigid plastic & 200mm rectangular rigid plastic
Kitchen to MEV duct type and size		150 & 125mm diameter rigid plastic & 200mm rectangular rigid plastic
Wet room to MEV duct type and size		150 & 125mm diameter rigid plastic & 200mm rectangular rigid plastic

Results for SAP calculations (at minimum flow rate condition)

This product has only been tested with rigid ductwork and it is not applicable for SAP Appendix Q if installed with flexible ductwork.

Table Q1 – Systems with rigid ductwork only

Exhaust terminal configuration	Fan speed setting	Specific fan power (W/l/s)	Energy Saving Trust Best Practice Performance Compliant
Kitchen + 1 additional wet room	Single speed	0.33	Yes
Kitchen + 2 additional wet rooms	Single speed	0.29	Yes
Kitchen + 3 additional wet rooms	Single speed	0.27	Yes
Kitchen + 4 additional wet rooms	Single speed	0.26	Yes

These figures are entered into either:

- (a) In the case of SAP software amended to SAP 2005 version 9.81 allowing direct entry of centralised MEV data, the SAP software, or
- (b) In the case of SAP software amended to SAP 2005 version 9.81 not allowing direct entry of MEV data, the SAP Q MEV Calculation Spreadsheet v9.81 and the results from the spreadsheet into the Special Features part of the SAP 9.81 software, or
- (c) In the case of SAP software to SAP 2005 version 9.80 , the SAP Q MEV Calculation Spreadsheet v9.80 and the results from the spreadsheet into the Special Features part of the SAP 9.80 software. They must **NOT** be entered directly into SAP 2005 version 9.80 software

Table Q2 – Systems with flexible ductwork only

Exhaust terminal configuration	Fan speed setting	Specific fan power (W/l/s)	Energy Saving Trust Best Practice Performance Compliant
Kitchen + 1 additional wet room	N/A	N/A	N/A

Results for Approved Document F (at maximum flow rate condition)

Table Q3

Exhaust terminal configuration	Fan speed setting	Total flow rate (l/s)	Total flow rate – wind condition (l/s)	% reduction of total flow rate
Kitchen + 1 additional wet room	Single speed	21.0	19.3	8
Kitchen + 2 additional wet rooms	Single speed	29.0	27.3	6
Kitchen + 3 additional wet rooms	Single speed	37.0	35.3	5
Kitchen + 4 additional wet rooms	Single speed	45.0	42.9	5

Comments

Only figures from Table Q1 or Table Q2, not both, should be used with the SAP Q Calculation Spreadsheet for this technology type.

Table Q3 results are only applicable for Approved Document F requirements.