

## **SAP Appendix Q testing results**

### **Central mechanical supply and exhaust ventilation system packages with heat recovery used in a single dwelling**

Product tested	MTD-ERV 140 L
Serial number of product tested	471219010
MVHR to outside grille duct sizes and type	150 & 125mm diameter rigid plastic & 200mm rectangular rigid plastic
Duct sizes and types used for supply and exhaust	150 & 125mm diameter rigid plastic & 200mm rectangular rigid plastic

### **Results of leakage tests**

Internal leakage	Pass
External leakage	Pass

**Results at maximum flow rate condition**

Exhaust terminal configuration	Fan speed setting	Total supply flow rate (l/s)	Total exhaust flow rate (l/s)
Kitchen + 1 additional wet room	Supply - 15 Extract - 15	16.3	17.4
Kitchen + 2 additional wet rooms	Supply - 32 Extract – 28	21.0	21.0
Kitchen + 3 additional wet rooms	Supply - 54 Extract – 45	27.0	27.0
Kitchen + 4 additional wet room	Supply - 72 Extract – 66	33.0	33.0

**Results at minimum flow rate condition**

Exhaust terminal configuration	Fan speed setting	Total flow supply rate (l/s)	Total exhaust flow rate (l/s)	Specific fan power (W/l/s)	Heat recovery efficiency (%)
Kitchen + 1 additional wet room	Supply - 15 Extract - 15	16.3	17.4	1.12	82
Kitchen + 2 additional wet rooms	Supply - 32 Extract – 28	21.0	21.0	1.03	81
Kitchen + 3 additional wet rooms	Supply - 54 Extract – 45	27.0	27.0	1.16	80
Kitchen + 4 additional wet room	Supply - 72 Extract – 66	33.0	33.0	1.30	79

**Comments**