

## **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 300
Serial number of product tested	073160047
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	90 m <sup>3</sup> /hr	29.2	28.6
Kitchen + 2 additional wet rooms	90 m <sup>3</sup> /hr	29.0	28.4
Kitchen + 3 additional wet rooms	100 m <sup>3</sup> /hr	31.1	30.2
Kitchen + 4 additional wet room	125 m <sup>3</sup> /hr	36.3	36.3
Kitchen + 5 additional wet rooms	150 m <sup>3</sup> /hr	44.4	44.3
Kitchen + 6 additional wet rooms	150 m <sup>3</sup> /hr	45.6	45.0
Kitchen + 7 additional wet rooms	175 m <sup>3</sup> /hr	53.6	52.5

**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	90 m <sup>3</sup> /hr	29.2	28.6	1.44	85.1
Kitchen + 2 additional wet rooms	90 m <sup>3</sup> /hr	29.0	28.4	0.98	85.1
Kitchen + 3 additional wet rooms	100 m <sup>3</sup> /hr	31.1	30.2	0.82	85.6
Kitchen + 4 additional wet room	125 m <sup>3</sup> /hr	36.3	36.3	0.86	85.6
Kitchen + 5 additional wet rooms	150 m <sup>3</sup> /hr	44.4	44.3	1.14	85.2
Kitchen + 6 additional wet rooms	150 m <sup>3</sup> /hr	45.6	45.0	0.88	85.1
Kitchen + 7 additional wet room	175 m <sup>3</sup> /hr	53.6	52.5	1.06	84.5

**Comments**