

22 September 2006



DVS In-Home Ventilation Ltd

Mr Brian Edwards
Technical Production Manager
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Dear Brian

Further to our recent discussions regarding the power consumption testing completed on the 25 May 2006 (Spectrum Laboratories project number 3628), I can confirm the results as follows:

Part 1: Starting-up / Operating tests::

Testing at 230 V.

Mode		AC Fan	Mode		EC Fan
a) Inrush current when switching on		657.6 mA	a) Inrush current when switching on		110.0 mA
b) Normal speed: (3.5 lights on)	Current	502.6 mA	b) Normal speed: fan speed "0"	Current	59.0 mA
	Power	96.60 W		Power	9.23 W
c) All lights on	Current	483.8 mA	c) Fan speed "10"	Current	81.9 mA
	Power	102.02 W		Power	12.34 W
d) "MAX"	Current	485.7 mA	d) Fan speed "MAX"	Current	490.6 mA
	Power	103.25 W		Power	65.52 W
e) One orange light on (half brightness)	Current	382.0 mA	e) Fan speed "-10"	Current	48.2 mA
	Power	47.98 W		Power	7.85 W

Part 2: EC Fan Screen Saver Mode. (> one minute after last keypress)

Testing at 230 V.

Mode		EC Fan	
b) Normal speed: fan speed "0"	Current	50.7 mA	
	Power	7.22 W	
c) Fan speed "10"	Current	71.8 mA	
	Power	10.15 W	
d) Fan speed "MAX"	Current	484.6 mA	
	Power	63.20 W	
e) Fan speed "-10"	Current	39.7 mA	
	Power	5.83 W	

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Part 3: Power consumption per hour.

Testing at 230 V.

Mode	AC fan	Mode	EC Fan
b) Three and a half lights on	99.3 W/h	b) Fan speed "0"	7.4 W/h
c) All orange lights on	103.5 W/h	c) Fan speed "10"	10.6 W/h
d) "MAX"	106.2 W/h	d) Fan speed "MAX"	63.1 W/h
e) One light on (half brightness)	49.2 W/h	e) Fan speed "-10"	5.9 W/h

Additional testing:

a). AC Fan readjusted (after pressing more or less buttons) as described, measurements for normal operation (3.5 lights on) were:

Current: 470.5 mA Power: 76.78 W

b). EC Fan readjusted to give floor index of 31 with Fan profile at Uniform 4, measurement at normal operating speed was made:

Current: 77.62 mA Power 11.01 W.

And in screen saver mode:

Current: 72.52 mA Power: 9.53 W

c). EC Fan readjusted to Fan Profile – uniform 7 (still at floor index 31) and normal operation speed measurements were re-measured:

Current: 134.43 mA # ;Power: 18.92 W

And in screen saver mode:

Current: 123.73 mA # ;Power: 16.45 W

Note: The measurement values were not stable and it was noted that the values fluctuated slightly by about $\pm 10\%$. Those recorded are representative only rather than continuous.

If you require any further information or clarification, please contact me.

Carl Vroegop
Technical Manager

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