

## Demand Control gives better running costs - EC ventilation

Demand control is becoming a modern day necessity for ventilation and air-conditioning.

Below is shown the temperature tables for Melbourne. This data shows that 30degrees is reached for only 2% of a

Temperature bin hours	Melbourne	
	Cum h/yr from 20 degrees	Hours per year per bin
34	54	15
33	75	21
32	105	30
31	138	33
30	159	21
29	220	61
28	272	52
27	329	57
26	407	78

1.8 %

year. Temperatures beyond this for even less.

### Demand control is imperative in order to save money on running costs

EC (electrically commutated DC) fans and motors give 100% noiseless speed control in conjunction to the highest efficiency electric motors.

### Speed control with EC is the most efficient speed control method for reducing power consumption and noise

Fan law / Formula ~ fan speed ~ (fan speed)<sup>3</sup> 50\*log10(n1/n2)

Fan Speed	Air Volume	Power	noise / sound
			dB
100%	100%	100%	0.0
95%	95%	86%	-1.1
90%	90%	73%	-2.3
75%	75%	42%	-6.2
50%	50%	13%	-15
25%	25%	1,6%	-30

For further information contact:  
sales@ebmpapst.com.au