



The scientific cubed rule is used to calculate Fans & Pumps.

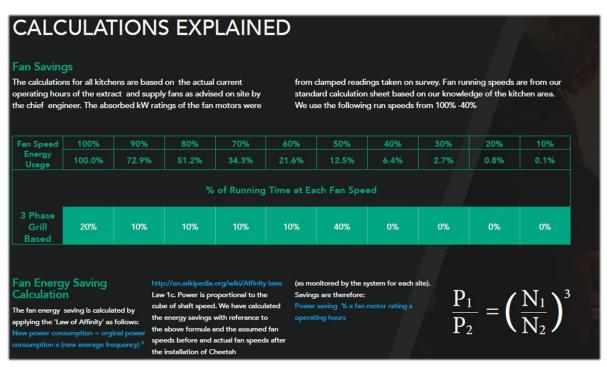
Summary

If you slow down a fan from **100% to 90 %** it <u>only uses 72% of the required power</u>

Equally, if you slowed a fan to **50%** it would only use **13%** of the required power



Explained



Further Breakdown

In principle:

Fan Speed	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
Energy Usage	100.0%	72.9%	51.2%	34.3%	21.6%	12.5%	6.4%	2.7%	0.8%	0.1%

ΛΛ

Is showing how much energy the fan would consume at certain set points. I.E at 90% of running speed the fan will consume 72.9% of total energy.

3 Phase Grill 20% 10% Based	10% 10% 10%	40% 0%	0% 0%	0%
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This shows how much time (in %) we would expect the fan to run at certain fan speeds after Cheetah is fitted based on Grill equipment under the hood canopy.

And this is how we calculate the Savings with cheetah based off this information.



