

Comparison of Maxi-Cool cooling system with a typical small server room

Comparison criteria	Server room with airconditioning sized to provide 5kW of cooling	Enclosure fitted with Maxi-Cool TM5 cooling system
Typical floorspace occupied	9 metres square	1 metre square
Effective cooling in the rack enclosure	5kW	5kW
Power consumption of the cooling system	5kW	1.2kW
Total power consumed running at full load	10kW	6.2kW
PUE of the application (Total facility power/ IT equipment power)	PUE=2.0	PUE=1.24
Annual power consumption of the cooling system based on running a system 24/7 at an average 50% capacity	21,900 kW hours	5,256 kW hours
Cost of running the cooling system for a year, assuming a cost of £0.28 per kW hour	£6,132	£1,471.68
Yearly energy cost saving using Maxi-Cool		£4,660.32
Capital cost	£10,000 typically	£6,500.00 typically
Total cost in first year	£16,132	£7,971.68
Total cost saving in first year		£8,160.32

Other considerations

	Server room	Maxi-Cool
Does the system eliminate all hot spots in the cabinet?	No	Yes
Is the system portable?	No	Yes
Is the system usable in listed buildings?	No	Yes
Does the system occupy the minimum space possible	No	Yes