



Deployable Air Conditioning System



TECHNICAL DATA

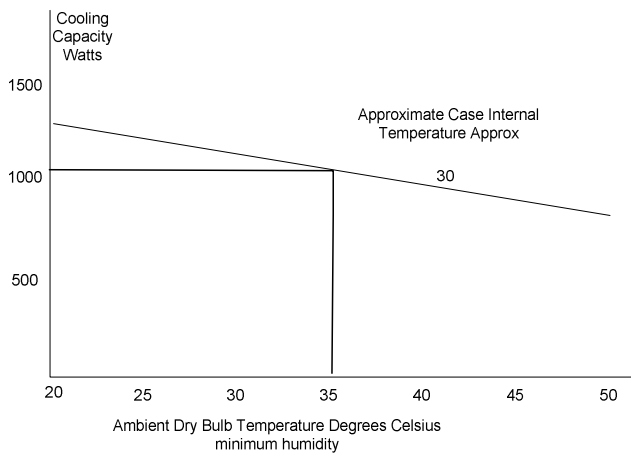
Technical Description

Description	Value	Notes
Operating Voltage	230volts 50/60	+/- 20%
Operating position	± 5 degrees	From the upright position as indicated by arrows in each axis.
Operating Current	6.8 Amps	
Power Input	1000 Watts	
Starting Current	11.0 Amps	With Compressor ON
Running Current	6.8 Amps	
Circuit Current Rating	15.0 Amps	
Weight	35.5 Kg	
Compressor Type	Rotary	
Refrigerant	R22	420 grams Maximum
Maximum Permissible Pressure	400 PSI	Unit will turn off if this pressure is exceeded.
Operating Temperature		0 to +55 degrees Celsius.
Maximum Operating temperature	55 degrees Celsius	Unit will turn off if the temperature is exceeded.
Cooling capacity to Case	1000 Watts	This capacity is at 35 deg Ambient and 30 deg internal case temp with case insulated as specified below.
Temperature Range Ambient	-10 to +50 degrees Celsius	Units will turn off at high temperatures or internal pressure
Noise level at 25 degrees	70 db	Approximate

Celsius		
Noise level above 45 degrees Celsius	76 db	Approximate
Installation to Case		Hinged Mount on Left Hand Side

Expected Performance

The enclosure cooling unit is designed and built for the EDAK 10 RU equipment case to dissipate heat from the case to a total capacity of 1000 watts at 35 degree's Celsius Ambient temperature. Its performance is shown in the graph as depicted at Figure 1.



The performance of the unit is however very much dependant upon other factors outside of the manufactures control. The efficiency of the Air Conditioner is reliant on the total internal case thermal conductivity and the airflow inside the case. The user and system designer will need to analyse the airflow and adjusted it to prevent short cycling. This is critical before any operational specifications can be specified accurately.

Figure 1 Performance Graph