

19-inch Rack Air Conditioning

Integral air conditioning options for Amazon Rack & ERACK

Fitted & Insulated A/C Units

CP Cases produce a range of vibration mounted 19-inch electronic rack cases with the option for insulation and air conditioning units fitted. A/C options for compressor cooling units and thermoelectric coolers are both available.

Thermoelectric cooling units (based on the Peltier effect) are solid state systems with no moving parts, other than axial fans to distribute the cold air. Other benefits of thermoelectric air conditioning include extremely low maintenance, no air exchange (between inside and outside), no compressor, no refrigerant and no brownouts at low voltage.

A 1500BTU cooler can typically be fitted in a 19-inch rack as small as 6U, with options of aluminium ERACKs and rotomoulded Amazon racks available. Various A/C units available from 200BTU to 2500BTU.

A full air conditioning brochure is available upon request.



ERACK with thermoelectric 1500BTU cooler & EasyGlide™ chassis

Ventilation

Thermoelectric coolers do not require ventilation in the outer container, this helps maintain the IP rating of the rack. Image shows Amazon Cooler Collar (below).



Compressor Air Conditioning Unit

ERACK with insulation and compressor air conditioning unit (below).



BTU to Watt Conversion Table

BTU	Watt
200	59
400	117
800	234
1500	440
2500	733
5000	1465
10000	2930
15000	4395
20000	5860

Thermoelectric Air Conditioning

Ambient air does not mix with internal air - see below.

