

Also available

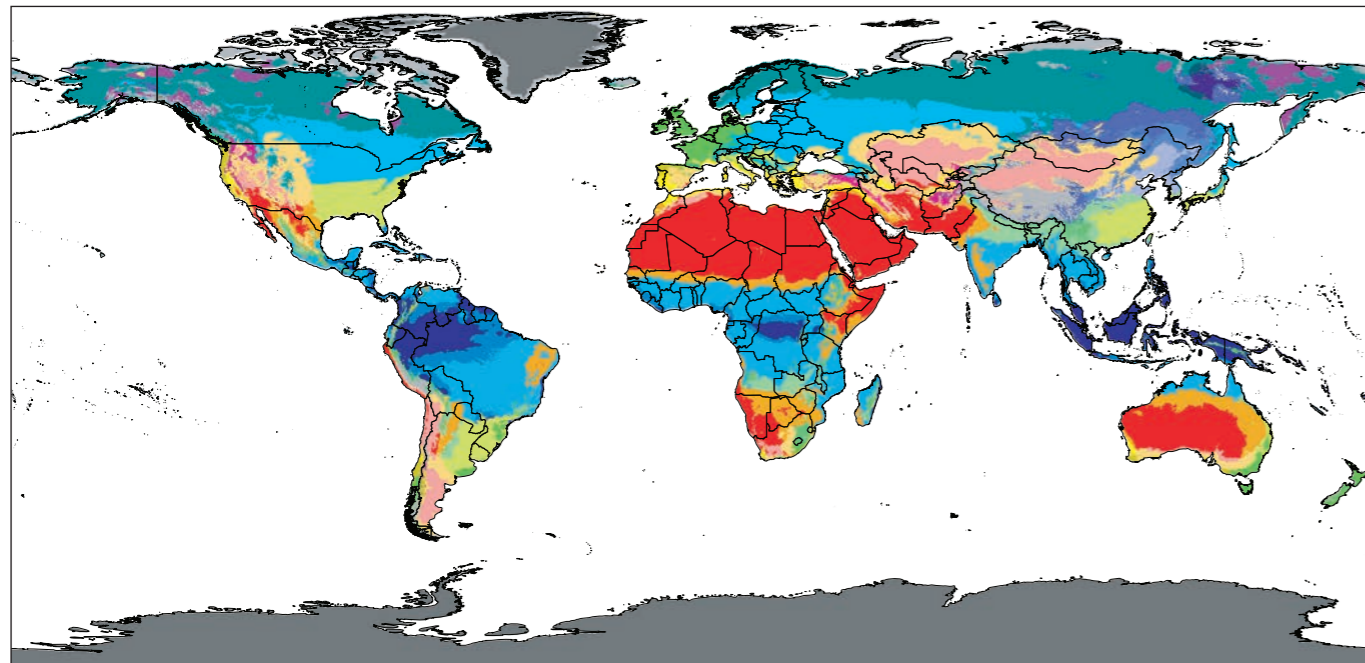
Thermoelectric Unit (TEU)



- Rated IP55
- Solid state
- Not sensitive to orientation
- Compact and robust construction
- Long lifetime
- Low maintenance
- 340W cooling (6U)
- Weight 19.5kg
- No liquid refrigerant
- No brownout during voltage fluctuations
- Closed loop system

Average ambient temperatures in the world's primary climate zones.

■ Tropical A1
 ■ Tropical A2
 ■ Tropical A3
 ■ Arid B1
 ■ Arid B2
 ■ Arid B3



By Beck, H.E., McVicar, T.R., Vergopolan, N., Alexei, B., Lutsko, N.J., Dufour, A., Zeng, Z., Jan, X., van Dijk, A.J.J.M., Miralles, D.G. - "High-resolution (1 km) Köppen-Geiger maps for 1901-2099 based on constrained CMIP6 projections". Scientific Data. DOI:10.1038/s41597-023-02549-6. CC BY 4.0. https://commons.wikimedia.org/w/index.php?curid=146711567



www.cpcases.com



www.cpcases.com/us

CP Cases Ltd
 Unit 11, Worton Hall Industrial Estate
 Worton Road, Isleworth, Middlesex, TW7 6ER, UK
 T: +44 (0) 20 8568 1881
 E: info@cpcases.com

CP Cases Inc
 34607 Dupont Blvd Unit 1, Frankford, DE 19945, USA
 T: +1 (410) 352 9450
 E: sales.usa@cpcases.com

@cpcases
 Follow us
 Search CPCASES

CP Cases, Inc
 Follow us
 Search CPCASES

Specialist Climate Control



COOL

- 2kW (6800 BTU) cooling
- Small, rugged, portable, efficient
- Multi-voltage 90-240V AC and 24-26.5V DC
- Designed for use in extreme climates



Vapour Compression Cycle (VCC) Cooling



- 2kW** 2kW of cooling
- V** Multiple voltage capabilities (90-240V AC 50/60Hz & 24-26.5V DC)
- AC** AC priority switching
- R513A** Low GWP refrigerant R513A
- +49°C** Operating temperatures up to +49°C
- 40°C to +71°C** Storage temperatures of -40°C to +71°C
- Mobile operation**
- Air flow of 1250m³/h**
- IP65** IP65
- 15-30°C** Set point between 15°C and 30°C
- CE** CE marked



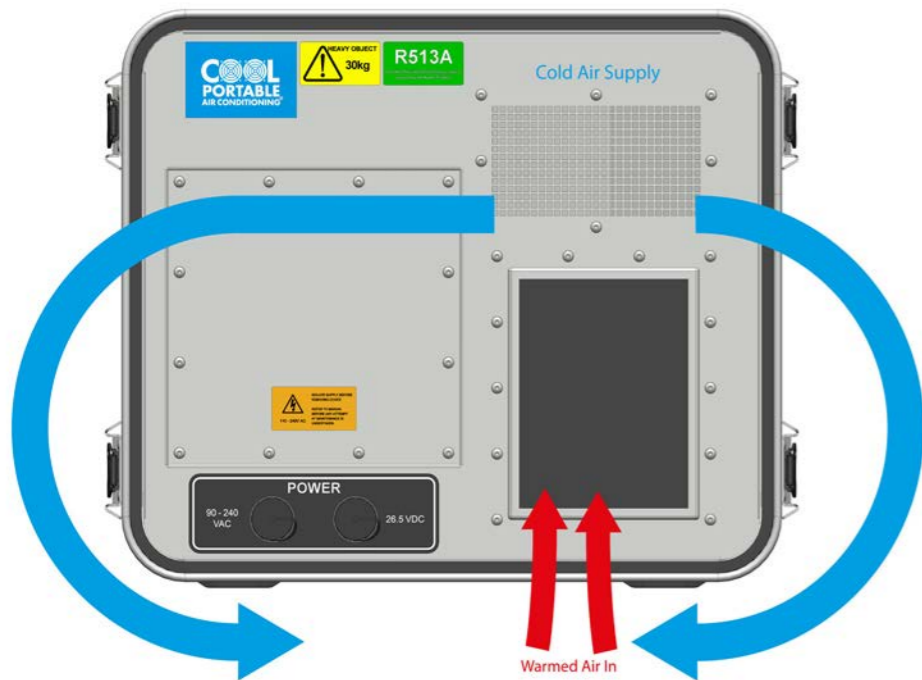
The Vapour Compression Cycle (VCC) system is a compressor based portable air conditioning device engineered to provide high level, efficient air conditioning in remote locations, while meeting the demands of defence and civil operations in extreme environments.

Chilled air from the cold output grill can be ducted to specific areas in the enclosure to maximise the effect of the air conditioner.

Optional heating elements can be installed – enabling 'warm start' in sub zero climates.

VCC2 Air Conditioner (installed in COOL Collar)

View from equipment side within 19" rackmount enclosure looking towards air conditioning unit indicating airflow



Specialist Climate Control VCC2

The new COOL VCC2 is a portable, compact, efficient A/C system for cooling 19" rack mounted electronics.

It has been designed and built by our specialist engineering team, for worldwide deployment in extreme climates and challenging applications.

Specifications	Metric	Imperial
Operational temperature range	Up to 49°C	Up to 120.2°F
Operational climate zones (DEF STAN 00-35 [ref. 2.4-3] Part 4)	A1, A2, A3, B1, B2, B3	A1, A2, A3, B1, B2, B3
Cooling capacity (max.)	≥2.2 kW	7500 BTU
Cooling capacity (25°C / 49°C) (A1)	2.0kW	6824 BTU
Refrigerant / circuit	R513A – hermetically sealed	R513A – hermetically sealed
Air flow (max.)	1250m³/h	44,000ft³/h
Mounting	Within ERV3 and Amazon COOL Collars	Within ERV3 and Amazon COOL Collars
Dimensions (W x H x D)	517 x 427 x 390 mm	20.35 x 16.81 x 15.35 in
Weight	30kg	66lbs
Certification	UKCA / CE	UKCA / CE
Chassis material	Aluminium 5251	Aluminum 5251
IP rating	IP65 (collar to case)	IP65 (collar to case)
Voltage	90-240V AC / 24-26.5V DC	90-240V AC / 24-26.5V DC
Power consumption	1100 W	1100 W

Unit capabilities

- 2kW of cooling at DEF STAN 00-35 [Ref. 2. 4-3] Part 4 A1 conditions of +49 °C (120.2°F)
- Unit capable of operating at 90-240V AC 50/60Hz and 24-26.5V DC
- If connected to both AC and DC power the unit shall operate on AC until disconnected then continue to operate on DC power
- The unit can operate at temperatures up to +49°C (120.2°F) = the DEF STAN 00-35 [Ref. 2. 4-3] Part 4 Cat. of A1, A2, A3, B1, B2, B3
- R513A refrigerant with a GWP of only 631 (56% lower than R134a)
- The unique compressor allows the unit to be operational whilst on the move
- High airflow ensures good circulation of conditioned air within cooling space
- Lightweight aluminium construction allows the unit to be easily handled without specialist lifting equipment
- Controlled via an easy to use digital controller offering a set point of between 15°C (59°F) & 30°C (86°F)
- Meets new legislation of UKCA & CE marking
- Electrical inputs positioned on internal face to allow power to be sourced from the cooling space
- UK designed and manufactured
- IP67 rated electrical connectors for power
- Low maintenance hermetically sealed refrigerant circuit
- Easy to clean washable dust filters

