

Specialist Climate Control

cp cases 

- 2 kW (6800 BTU) Cooling
- Small, Rugged, Portable, Efficient
- Multi-voltage 110 – 240 VAC & 24 VDC
- Designed for use in extreme climates

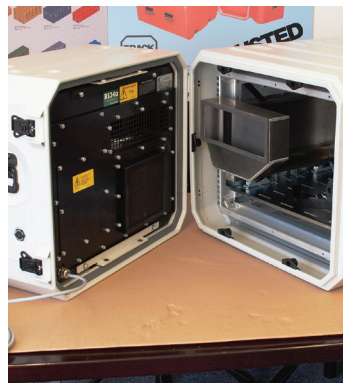
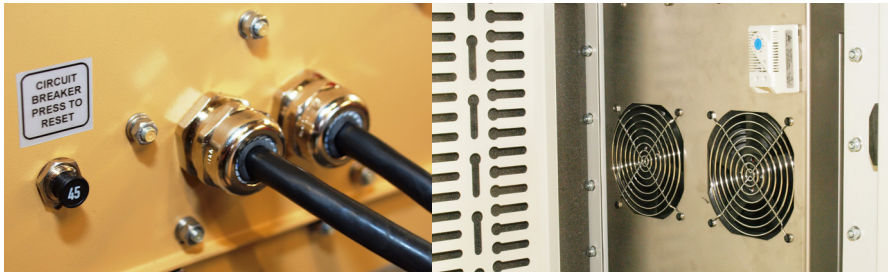


**COOL**
PORTABLE
AIR CONDITIONING®

Vapour Compression Cycle (VCC) Cooling



- Re-Usable Dust Filters - Easy To Clean
- Rated IP55
- Highly Efficient
- Sustainable - Uses R513a – An Environmentally Friendly Refrigerant
- Closed Loop System Where Climate Controlled AC Does Not Mix With Ambient Air
- Robust Construction
- Easy To Operate
- Low Maintenance
- Automatically Adjusts To High Demand
- High Powered Air Flow
- Optional Heating For Sub Zero Climates

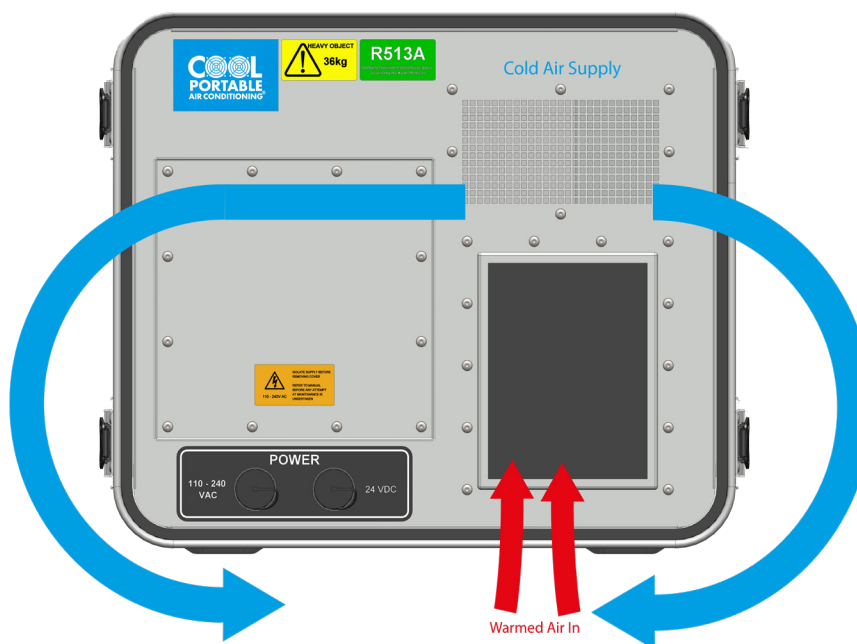


The Vapour Compression Cycle (VCC) system is a compressor based portable air conditioning device engineered to provide high level, efficient air conditioning in remote locations, while meeting the demands of defence and civil operations in extreme environments.

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.

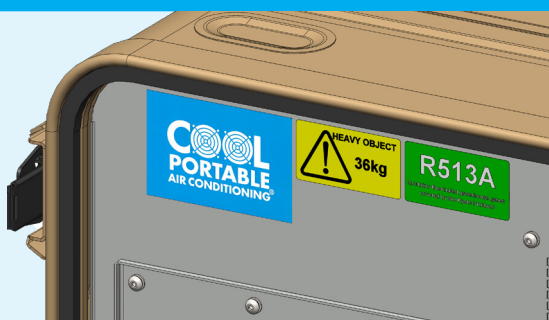
VCC2 Air Conditioner (installed in COOL Collar)
View from equipment side within 19" rackmount enclosure looking towards air conditioning unit indicating airflow



Specialist Climate Control VCC2

The new COOL VCC2 is a portable, compact, efficient A/C system for cooling 19" rack mounted electronics. 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 Capability (Max.)	2.2 kW	7500 BTU
Cooling Capability (49°C)	2.0 kW	6824 BTU
Refrigerant/ Circuit	R513A – Hermetically Sealed	R513A – Hermetically Sealed
Air Flow (Max.)	1250 m3/h	44,000 ft3/h
Mounting	Within ERV3 COOL Collar	Within ERV3 COOL Collar
Dimensions (Est. W x H x D)	558 x 465 x 400 mm	21.96 x 18.30 x 15.75 in
Weight (Est.)	< 40kg	< 88lbs
Certification	UKCA / CE	UKCA / CE
Chassis Material	Aluminium 5251	Aluminium 5251
IP Rating	IP55	IP55
Voltage/ Phase Supply	110 – 240 VAC (50/60 Hz) & 24 VDC	110 – 240 VAC (50/60 Hz) & 24 VDC
Current Draw, Cooling (Max.) (@24VDC)	Approx. 48A	Approx. 48A



UNIT CAPABILITIES

- 2 kW 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 with 110-240VAC 50/60Hz & 24VDC
- If connected to both AC & 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 the commonly used R134a & GWP 1430)
- 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

ALSO AVAILABLE

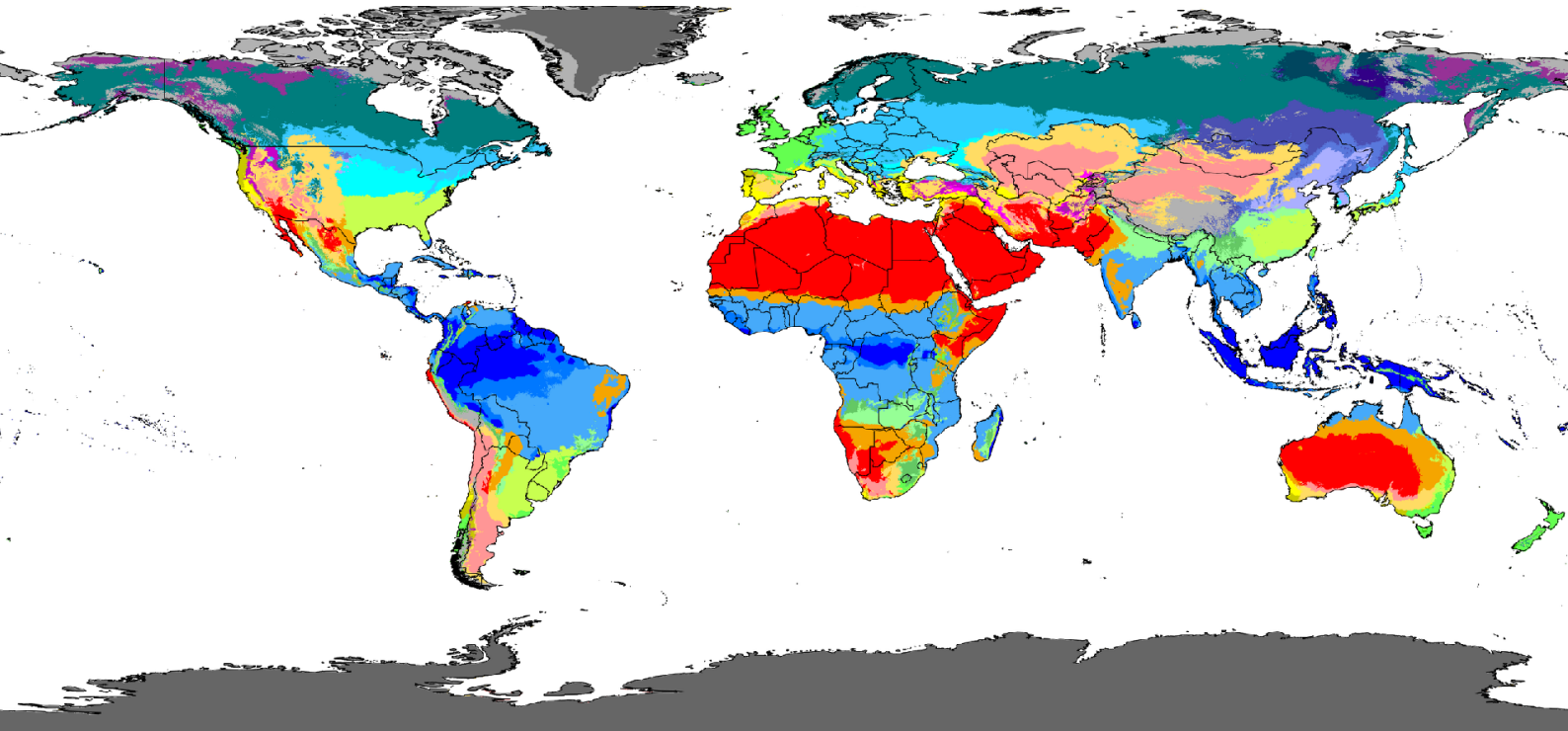
Thermoelectric Unit (TEU)



- 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

Categorising the world's climate into zones helps us understand the conditions in different regions.

Map showing the current distribution of Köppen climate zones around the world. There are many climate classification systems, which define zones based on different climatic factors or combinations of factors.



■ A1
 ■ A2
 ■ A3
 ■ B1
 ■ B2
 ■ B3

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