



Key Features

- Ruggedized design for military applications
- Used with military vehicles which travel across rough terrain
- Compact and light-weight design, constructed from aluminium
- Externally mounted
- Designed to operate in extreme conditions
- Designed to meet stringent RFI/EMC requirements
- Quiet operation
- In service with military forces throughout the world
- Easy, low maintenance design
- Available in various power supply options
- External finish, either 2 pack polyurethane Matt IRR or Powder Coating for durability

Air-conditioning and Cooling Systems

MPA-900 Externally Mounted

Designed specifically for military applications the MPA-900 is a 'ruggedised' air conditioning unit providing both equipment and operator climate control. It is mounted externally on military shelters transported by 'high mobility' vehicles across rough terrain.

The unit provides a constant flow of filtered 'fresh-air' into the shelter. The conditioned airflow has both low and high speed operation along with two stages of cooling in-order to provide 'close control' around the selected set-point temperature. Refrigeration circuits are 'hermetically' sealed for 'leak free' reliability.

Monitoring and display of internal shelter temperature, mode status and fault alarms is by a separate control unit, which also allows the ACU to be operated in 'AUTO' mode via an electronic thermostat or manually in 'Heat' or 'Cooling' modes.

The control unit can be mounted within a 19" rack system, or

in accordance with customer requirements.

Manufactured from lightweight aluminium, it complies with stringent EMC requirements and has been qualified to DEF STAN 59-41 Land Class A. All the airflow apertures are fitted with 'honeycomb' EMC filters and all panels have EMC gaskets fitted. The unit can be operated in extreme environments as defined in DEF STAN 00-35 climatic categories A1 to C2.

Paint finish is dependent upon customer requirements. Infrared reflective (IRR) Matt paint and Chemical Agent Resistant Coating (CARC) to Defence Standard 80-208 are readily available.

Designed for 400Vac 3 Phase electrical supply, it is NATO codified and fully supportable with spare parts.

About CMCA

CMCA Ltd specialises in the design and manufacturer of precision military air-conditioning and power generation technology, proven in the most extreme environments on earth.



Facts and Figures

Overall Dimensions (nominal):

Width: 820mm
 Height: 630mm
 Length: 1680mm

Weight: 300kg

Power Supply: 400Vac
 3 phase, 50Hz

Cooling Capacity (nominal):
 7.4kW @+55°C
 9.5kW @+35°C

Heating Capacity (nominal): 6.0kW

Evaporator Airflow: (nominal):
 1,550m³/hr (low speed)
 2,150m³/hr (high speed)

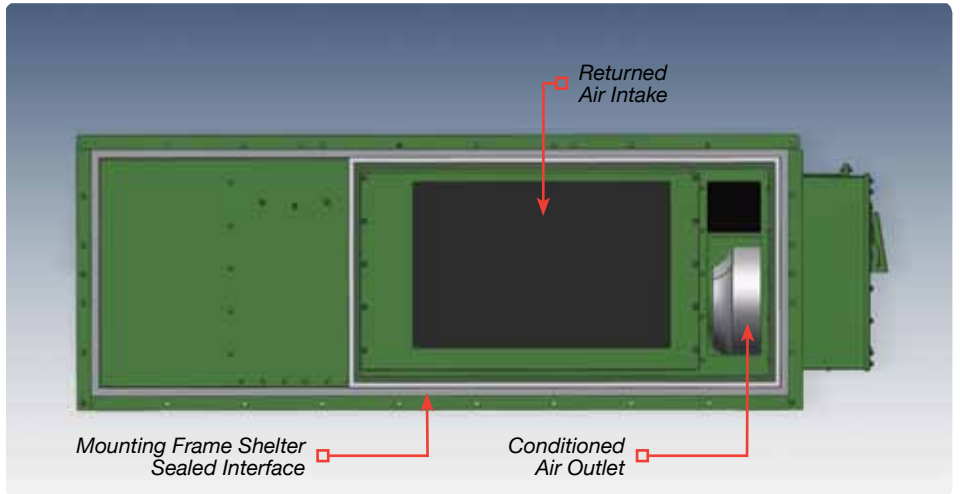
Operating Conditions: -46°C to +55°C

Refrigerant Type: R134a

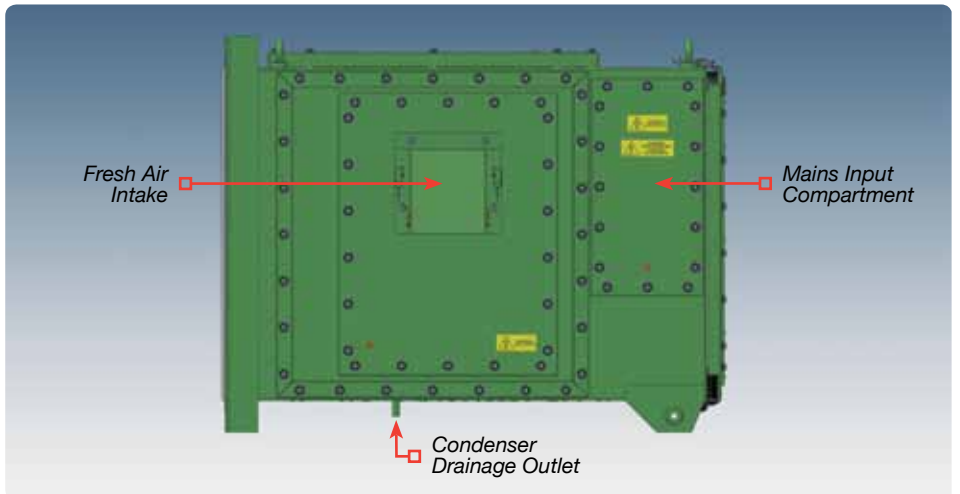
RFI/EMC Capabilities: Complies with Def Stan 59-411 Land Class A

Front Elevation

MPA-900



Side Elevation



Further Information

For a full technical specification on this or any other CMCA product please contact:

Plan View

