



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-910 Externally Mounted

The MPA-910 air conditioning unit has a 'ruggedized' design for Military applications and provides both equipment and user climate control within 'mobile' shelters on Military vehicles, which traverse rough terrain.

The unit is constructed from lightweight aluminium, is mounted externally to the shelter and 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.

The unit requires a remote Control Unit which displays the actual temperature as well as the operational mode status along with fault mode alarms. From the Control Unit the ACU can be operated in AUTO mode from the electronic thermostat or alternatively, MANUAL 'Heat' or Cooling' modes can be selected.

It is designed to operate in extreme environments as defined in DEF STAN 00-35 climatic categories A1 to C2.

This unit is currently built to comply with the commercial EU EMC standard. It can also be supplied fitted with all relevant 'honeycomb' EMC filters and gaskets to meet DEF STAN 59-411 Land Class A.

The refrigeration circuit is 'hermetically' sealed for 'leak free' reliability.

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: 983mm
 Height: 1000mm
 Length: 1070mm

Weight: 320kg

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):
 1,820m³/hr (low speed)
 2,100m³/hr (high speed)

Operating Conditions: -46°C to +55°C

Refrigerant Type: R134a

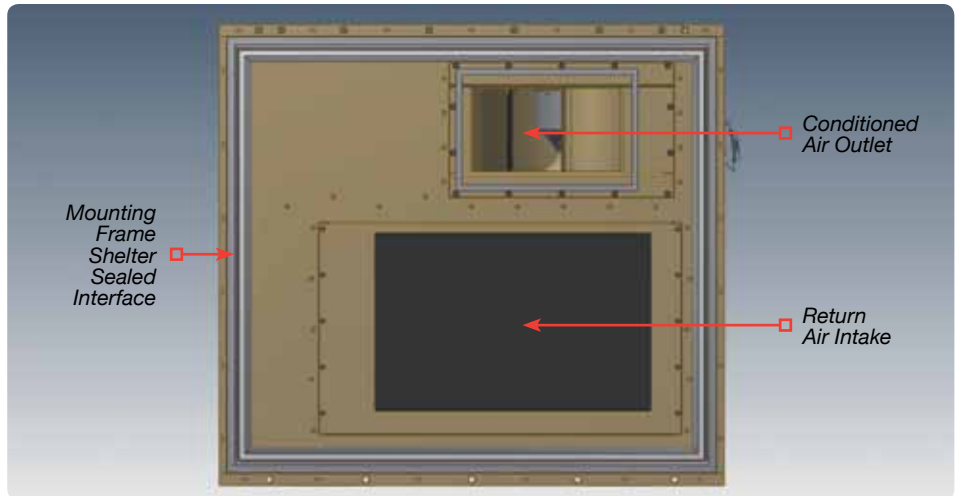
RFI/EMC Capabilities: Designed to meet Def Stan 59-411

Further Information

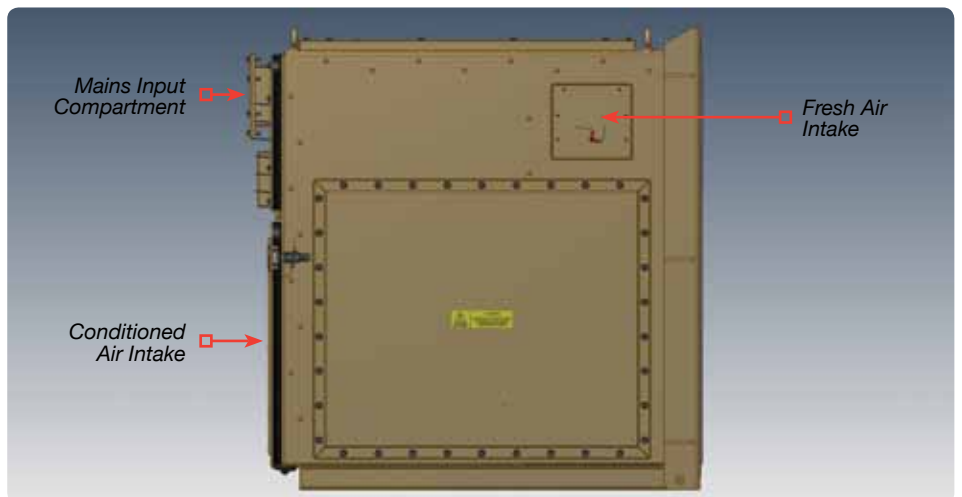
For a full technical specification on this or any other CMCA product please contact:

MPA-910

Front Elevation



Side Elevation



Plan View

