



Key Features

- Ruggedized design for military applications
- Designed to operate as rapid-deployment free standing units
- Can be deployed using military transport by land, sea or air
- Compact design constructed from corrosion resistant stainless steel
- Designed to operate in extreme conditions
- Can be trailer or skid mounted
- Quiet operation
- Provides continuous supply of fresh air
- In service with military forces throughout the world
- Easy, low maintenance design
- Available in various power supply options
- External finish: Powder Coating for durability



Air-conditioning and Cooling Systems

C120-S

The C120-S is a 'ruggedized' air conditioning unit designed for climate control for both equipment and operators within rapid deployable shelters. The unit can either be trailer or skid mounted, and is externally connected to the shelter via insulated flexible ducting to provide a constant flow of filtered 'fresh-air' into the shelter.

It has a single refrigeration circuit which is 'hermetically' sealed for "leak free" reliability as well as an electrical heating system with integral control system, which maintains an internal shelter temperature between +18 degrees C and +30 degrees C. It also has the option of being fitted with an on-board 'dry powder' fire suppression system. It is quite simply a 'connect and forget' system.

Dependent upon the geographical location to be deployed manufacture can be in either 'zintec' coated mild steel or corrosion resistant stainless steel. Paint finish is currently powder coated for durability with colour and finish entirely upon customer requirements.

The footprint of the C120-S allows 2 units to fit side by side on an air cargo pallet and the unit can be operated in extreme environments as defined in DEF STAN 00-35 climatic categories A1 to C2

It requires a 400/460V 3 phase 50/60Hz power supply and has a 'Pilot Earth Monitoring' system and FEPDS type mains connector fitted. It can be fitted with a 'latching' ON/OFF push button for unmanned remote sites for automatic start-up on power reinstatement.

The unit is fully CE qualified and meets the commercial EU EMC standard. It is NATO codified and fully supportable.

About CMCA

CMCA Ltd is an original equipment manufacturer specialising in the design and manufacture of precision air-conditioning, power generation and environmental control equipment systems for military applications. A range of equipment is offered all using proven technology in battlefield conditions, designed to operate in the most extreme environments on earth.

Facts and Figures

Overall Dimensions (nominal):

Width: 1000mm
 Height: 1100mm
 Length: 1500mm

Weight:

(excl trailer/skid) 375kg

Power Supply:

400/460Vac
 3 phase,
 50/60Hz

Cooling Capacity (nominal):

12.5kW @+55°C
 14.5kW @+35°C

Heating Capacity (nominal):

7.5kW

Evaporator Airflow (nominal):

2,000m3/hr

Operating Conditions:

-46°C to +55°C

Refrigerant Type:

R134a

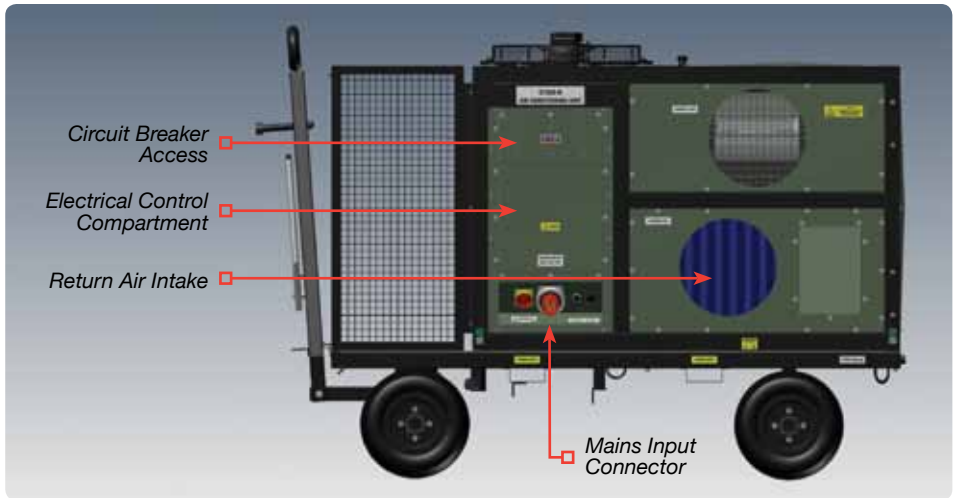
“Pilot Earth Monitoring” system with FEPDS mains connector available

Further Information

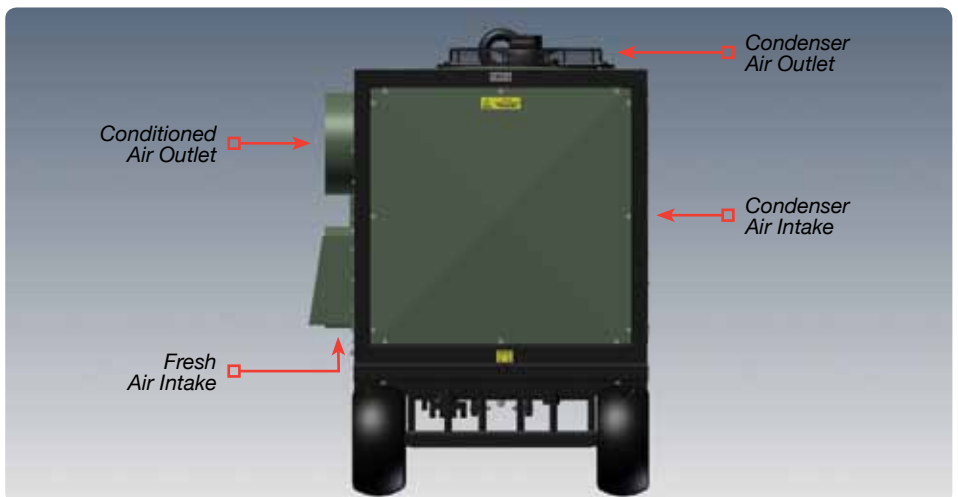
For a full technical specification on this or any other CMCA product please contact:

Front Elevation

C120-S



Side Elevation



Plan View

