Anitcom
Tel: 61 2 9630 - 1118 Fax: 61 2 9630 - 0021

Deployable Air Conditioning System

Use

This cooling unit has been designed and built for the deployable EDAK 12 Rack Unit Equipment Case fitted with computing, networking or electronics equipment. The unit is robust and has been tested to Military Standards. Marine versions are also available. It is covered by a 1 year warrantee from the date of supply. The unit will dissipate heat from the case to a total capacity of 1000 watts at 35 degree's Celsius Ambient temperature. The unit is not designed to operate above 50 degrees Celsius but is capable of operating to approximately 55 degrees Celsius for limited periods. The unit will also operate in temperate below 10 degrees Celsius.

Fitting

This unit is delivered ready for installation. The unit replaces the standard EDAK equipment case lid and is mounted onto the EDAK 12 Rack Unit case using the hinges provided on the side of the case.

Features

Gas

The Cooling unit consists of the compressor, evaporator, condenser, and a capillary tube. These are inter-connected by suitable copper pipes and filled with R22 gas. A filter dryer is integrated into the cooling circuit. This provides protection against most foreign bodies that could contaminate the gas.

Safety Devices

The cooling unit includes 2 safety devices. The high pressure monitor is fitted to the unit which is set to turn the compressor off when the maximum operating pressure of 400 PSI is reached. It has been designed to protect the system from excessive ambient temperatures above 65 degrees Celsius. The second safety device is a temperature cut out switch .This switch will turn the compressor off if the compressor malfunctions or the ambient temperature rises to approximately 55 degrees Celsius.

Maintenance

The unit is maintenance free hermetically sealed system. The cooling unit has been filled in the factory with the required amount of coolant and tested for leaks. It has also been tested for electrical operation. The installed maintenance free fans use ball bearings with a life expectancy of approx 30,000 hours if used below 40 degrees Celsius.