



C98 AIR CONDITIONING EQUIPMENT



The C98 units are high performance air conditioners specially designed for internal or external mounting on container bodies where long term reliability, under extreme climatic conditions, is essential. Particular attention has been paid to ease of installation and maintenance. All components are readily accessible with the unit in-situ by the simple removal of servicing panels.

To satisfy the demands of modern radar and computer controlled systems, special consideration has been given to EMC and RFI suppression. When RFI seals and honeycomb filters are used with the electrically bonded case, a high level of attenuation over a wide frequency spectrum is achieved. Capacity control is standard feature to eliminate the power surges associated with compressor starting.

A lightweight ruggedised air conditioner of aluminium construction built to military standards. Although the compact design is ideal for fitting under worktops, the unit is equally at home when fitted externally to the shelter, since it is designed for most severe weather conditions. The standard operating temperature range unit is fitted with a pressure controlled condenser fan enabling maximum efficiency at high ambient, whilst operating with a lower noise level at lower ambients.

A choice of remote control units, are available for multiple installations, with a remote temperature sensor to control all units. Control systems are available for 1, 2 and 4 ACU systems.

Temperature control is fully automatic with cooling available in ambient conditions from -46°C to $+55^{\circ}\text{C}$. Performance and fault monitoring, self test and remote alarm signals are provided on all control units.

A pressure sealed case and fail-safe electrically switched fresh air valve that can be interlocked with NBC filter packs give full NBC compatibility.

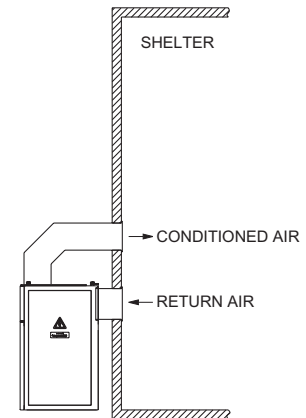
Mounting plinths together with a selection of plenum tops and ducts are also available to suit each application.

AIR CONDITIONER CONTROL PANEL - TECHNICAL DATA

	1493900 (1 Way)	1492000 (2 Way)	1400008 (4 Way)
Height	415 mm	415 mm	133 mm
Width	330 mm	330 mm	483 mm
Depth	247 mm	247 mm	256 mm
Mounting Method	Shelter Wall	Shelter Wall	19" Rack
Weight (max)	10 kg	10 kg	10 kg
Supply Voltage	230V, 50Hz, 1ph	230V, 50Hz, 1ph	230V, 50Hz, 1ph
Power (max)	2A	5A	13A
ACU Priority Switching	Yes	Yes	Yes
Temperature Control	Yes	Yes	Yes
Humidity Control	No	No	Yes
Indicator Test Facility	Yes	Yes	Yes
Fresh Air Control	Yes	Yes	Yes
Cooling Test Facility	Yes	Yes	Yes
Mode Indication Lamps	Yes	Yes	Yes
Fault Indication	Yes	Yes	Yes
Temperature Sensor	1465460	1465460	1465460
Humidity Sensor	N/A	N/A	1465440

TYPICAL INSTALLATIONS

EXTERNAL INSTALLATION

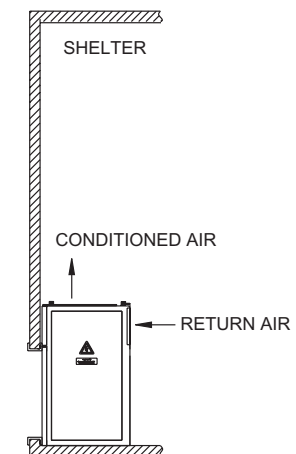


C98 AIR CONDITIONER - TECHNICAL DATA

	1400052	1400048
Height	695 mm	695 mm
Width	762 mm	762 mm
Depth	424 mm	424 mm
Mounting Method	Floor - Internal / External	Floor - Internal / External
Weight	105 kg	105 kg
Supply Voltage	230V, 50Hz, 1ph	380/415V, 50Hz, 3ph
Maximum Power Cooling	5.2 kW	5.0 kW
Maximum Power Heating	3.4 kW	3.4 kW
Sensible Cooling Capacity	4.5 kW	4.5 kW
Latent Cooling Capacity	1.3 kW	1.3 kW
Heating Capacity	3.0 kW	3.0 kW
Operational Conditions	-46°C to +55°C	-46°C to +55°C
Storage Conditions	-55°C to +70°C	-55°C to +70°C
RFI / EMC Protection	DEF Stan 59-41 (class B)	DEF Stan 59-41 (class B)
Shock & Vibration	Mill Standard	Mill Standard
Controls	External (1, 2 or 4 Way)	External (1, 2 or 4 Way)
Fresh Air Flow	100 m ³ /hr	100 m ³ /hr
Protection / Cutouts	HP / LP	HP / LP
Construction	Aluminium	Aluminium
Refrigerant	R134a	R134a
Fresh Air NBC Interlock	Yes	Yes

TYPICAL INSTALLATIONS

INTERNAL INSTALLATION



For more information on military air conditioning systems contact:

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