Global Defence Solutions



AC-M18
KEY INFORMATION

FUNCTION

The AC-M18 is a transportable unit designed for air conditioning in temporary or transportable buildings and tents. The unit is positioned outside, with supply and return air ducted to the tent. For field hospitals or higher filtration requirements, a dual filtration system is available for the internal air path.

The system uses a cooling circuit with two powerful fans. The evaporator section, with a radial fan, draws warm internal air through the cold evaporator and delivers cooled air through the side or top. The condenser section, with two condenser coils and a large axial fan, releases heat to the outside atmosphere.

An optional electric heating coil provides warmth when temperatures drop below 20 °C. All sheet metal components are protected against corrosion with a minimum 80 µm top coat.



FEATURES

- The AC-M18 is built into a strong metal frame with insulated panels where relevant, powder coated.
- Top finish painting is standard sand colour (oterh colours available).
- Designed for air conditioning when the temperature is above 20°C. It can provide cooling at ambient temperatures up to +60°C Option with built in heating will heat when ambient temperature is below 20°C.
- Scroll compressor for a high degree of reliability and low noise level.
- Automatic phase surveillance.
- Environment-friendly R134a refrigerant.
- HP/LP pressostat switches ensuring long compressor lifetime.
- G3 filtration of the internal air.
- Fresh air intake.
- Dual filters in front of internal air intake as an option.
- Integrated forklift tine pockets.
- Easy strap down on-air cargo pallets and stackable (two units on top of each other).
- Insulated flexible ducts Ø400 mm for exhaust and return air openings.
- Low voltage control circuit.
- CE-marked.
- Soft start or generator efficiency.
- Upgraded earthing provisions in accordance with applicable Australian Standards.
- MIL-STD-461H compliant.

ACCESSORIES

- Remote thermostat with 15 m cable and cooling/ heating selector switch.
- Flexible ducting of various sizes.

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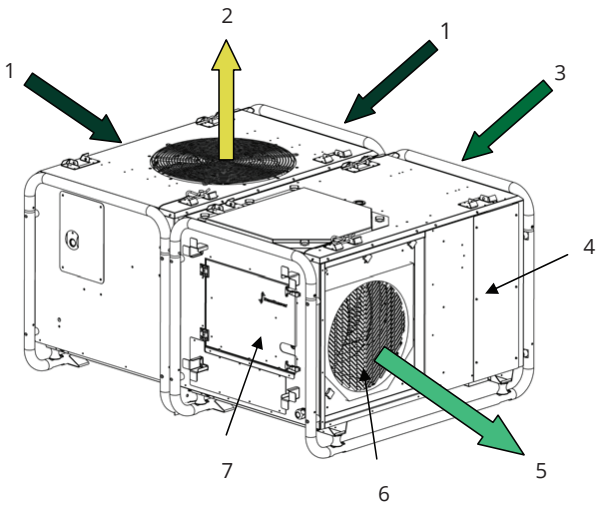
TECHNICAL DATA

Nato Stock Number 6/16 kW with heat (AU variant)	NSN	4120-22-628-4597
Operating range, cooling	°C	20-60
Operating range, heating	°C	-32–(+20)
Airflow, internal, with ducts	m^3/h	2500
Airflow, external	m^3/h	5600
Nominal Cooling capacity*	kW	17,5
Heating capacity optional	kW	6/16
Power supply	V/Hz	3x400 / 50
Max. running current (cooling/heating)	A	16 / 26
Locked rotor amperage (LRA)**	A	101
Power consumption (cooling/heating) tested	W	8300 / variable
Refrigerant / quantity	kg	R 134a / 7,8
Filter material	EN 779	G3 + optional
Protection class	IP	X5
Flex. air duct connection	Ømm	400
Noise level, aircon 3m distance, measured in shelter	dB(A)	59
Weight (without accessories), with heat	kg	240

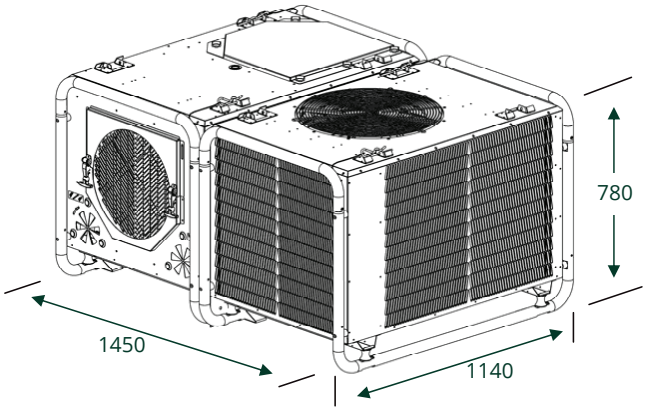
*Performance varies with varying conditions | **Soft starter available

UNIT COMPONENTS AND AIRFLOW

1	Condenser air intake
2	Condenser air discharge
3	Warm air intake
4	Dual filter system (optional)
5	Cooled air discharge
6	Duct coupling (Ø400 mm)
7	Electric panel w. cover



DIMENSIONS





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