



AC-M18 AIR CONDITIONER

Function

The AC-M18 Air Conditioner is a transportable unit, developed primarily to provide air conditioning in temporary or transportable buildings or tents. It is a small light weight unit made out of aluminium and built into a rigid steel frame. The unit is designed to be placed outside, with supply air and return air ducted to the tent. For field hospitals where a higher filtration than for normal accommodation is wanted, a dual filtration system for the internal air path is available.

The function of the AC-M18 is based on a cooling circuit and two powerful fans. The evaporator section contains the evaporator and a radial fan, which draws warm internal air of the tent through the cold evaporator and blows out the cooled air through the side or the top of the unit. The condenser section contains two condenser coils and a large axial fan, returning the heat taken from the internal air to the outside atmosphere.

The AC-M18 can be equipped with an electric heating coil, to provide heating for example for night time when temperatures can fall under 20°C.

All sheet metal parts are protected against corrosion by a minimum 80µm top coat in RAL 6031. Other colours are available.

FEATURES

- Designed for optimal utilisation of a standard 20" ISO container (24 pcs.).
- The AC-M18 is built into a strong metal frame with insulated panels where relevant, powder coated.
- Top finish painting is standard sand colour.
- 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.
- Sequential start of units possible.
- Environment-friendly R134a refrigerant.
- HP/LP pressostat switches ensuring long compressor lifetime.
- Controlled by a room thermostat placed inside the tent (accessory).
- G3 filtration of the internal air.
- Fresh air intake.
- Dual filters in front of internal air intake as an option.
- Four way fork lift handling.
- 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.
- ErP 2015 compliant.

ACCESSORIES

- Remote thermostat with 15 m cable and cooling/heating selector switch
- Insulated, flexible duct Ø400x3000 mm incl. storage bag
- Uninsulated flexible duct Ø400x5000 mm incl. storage bag
- Air distribution duct Ø400x6000 mm
- F7 filter
- Trolley with wheels (more detailed description under "Accessories")
- HEPA filter

TECHNICAL DATA

Air conditioner

Nato Stock Number
 Operating range, cooling
 Operating range, heating
 Airflow, internal, with ducts
 Airflow, external
 Nominal Cooling capacity*
 Heating capacity optional
 Power supply
 Power supply plug

 Max. running current (cooling/heating)
 Locked rotor amperage (LRA)
 Power consumption (cooling/heating) tested
 Refrigerant / quantity
 Filter material
 Protection class
 Flex. air duct connection
 Noise level, aircon 3m distance, measured in shelter
 Weight (without accessories), with heat

AC-M18

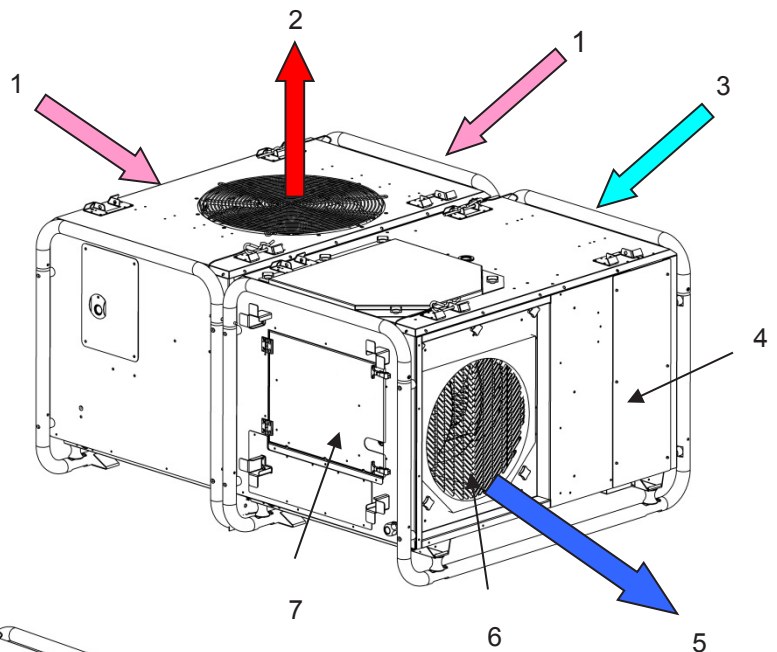
NSN 4120-22-628-4597
 °C 20-60
 °C -32-(+20)
 m³/h 2500
 m³/h 5600
 kW/BTU 17,5/60000
 kW/BTU 6/16 / 20000/55000
 V/Hz 3x400 / 50
 type 40A – Mil Spec Allied Connector
 (Optional 3Phase Clipsal plug available)

 A 16 / 26
 A 73
 W 8300 / variable
 kg R 134a / 7,8
 EN 779 G3 + optional
 IP X5
 Ømm 400
 dB(A) 59
 kg 240

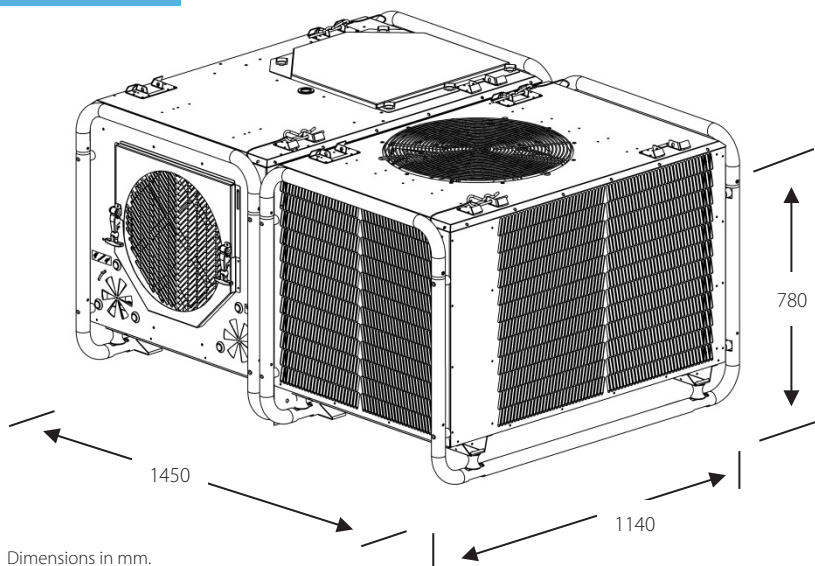
*Performance varies with varying conditions.

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 (Ø400mm)
7. Electric panel w. cover



DIMENSIONS



Part No#: MG-06F-28L – 50P
 NSN: 5935-66-147-0142