



AC-M5W AIR CONDITIONER WITH OPTIONAL HEATING

Function

The AC-M5W is designed for window mounting in ISO containers. Together with the trap door system the air conditioner is mounted inside the container. It is designed to store within the confinement of the ISO corners of the container during transportation, or storage. The AC-M5W is sliding in its trap door system and is deployed from the container for operation. Once deployed the unit is locked from inside the container when operating.

The function of the AC-M5W is based on a cooling circuit with two powerful fans. The evaporator (inside the container) section contains the evaporator core and a radial fan, which cycles the warm internal air from the shelter through the cold evaporator core and expels the cooled air through the discharge grill. The condenser (outside the container) section contains the condenser core and an axial fan, which is moving the heat from the internal air to the outside atmosphere.

In the standard version this unit is equipped with an optional electric heating element to warm up the internal air during cold start or cold environment.

FEATURES

- The AC-M5W is built into a cabinet manufactured from 0,9 mm galvanized and powder coated steel sheet.
- Top finish painting is standard NATO green, RAL 6014.
- Can provide cooling at ambient temperatures up to +60° C.
- Scroll compressor for high degree of reliability and low noise level.
- Environment-friendly R134a refrigerant.
- 2 kW electric heating element (special version).
- HP pressostat switching off the unit at too high ambient temperatures.
- Easily controlled by a room thermostat placed inside the container.
- Two speed selector for the internal fan.
- "VENT-only" option, allowing ventilation without cooling.
- Fresh air intake.
- Coarse filters in front of internal air intake as well as in front of external air intake and fresh air intake.
- Easy mounting into the trap door system, either by four lifting handles, one in each corner of the unit, or by a special lifting system (accessory).
- The trap door serves as protection against rain and extreme sun when the unit is operating (accessory).
- During transport the AC-M5W is stored inside the container.
- CE-marked.
- ErP 2015 compliant.

ACCESSORIES

- Trap door system
- Welding frame for corrugated container
- Lifting system



TECHNICAL DATA

Air Conditioner

Nato Stock Number (w/o heating element)
Nato Stock Number (with heating element)
Operating range, ambient temperature, cooling
Operating range, ambient temperature, heating
Airflow, internal, step I / II
Airflow, fresh air intake, step I / II
Airflow, external
Max. cooling capacity*
Cooling capacity @ 55/55°C 30% r.h.
Cooling capacity @ 35/35°C 30% r.h.
Heating capacity (with electric heating element)
Power supply
Power supply plug (see picture below)
Max. running current, cooling
Max. running current, heating
Locked rotor amperage (LRA), cooling
Generator requirement**
Max. power consumption
Refrigerant/quantity***
Filter material
Protection class
Noise level, 1m distance, step I / II
Weight net / weight with trap door system

AC-M5W with optional heating

NSN	4120-22-602-6562
NSN	4120-22-614-8068
°C	20-60
°C	-32-(+20)
m³/h	420 / 700
m³/h	37 / 60
m³/h	1400
kW/BTU	4,9/17000
kW/BTU	4,6/16000
kW/BTU	3,6/12000
kW/BTU	2,0/7000
V/Hz	1x230 / 50
type	UK plug 250V 13A Fuse (black)
A	9,8
A	9,3
A	47
kVA	4
kW	2,3
kg	R 134a / 1,4
	PPI 15
IP	X4
dB(A)	52 / 59
kg	79 / 102,50

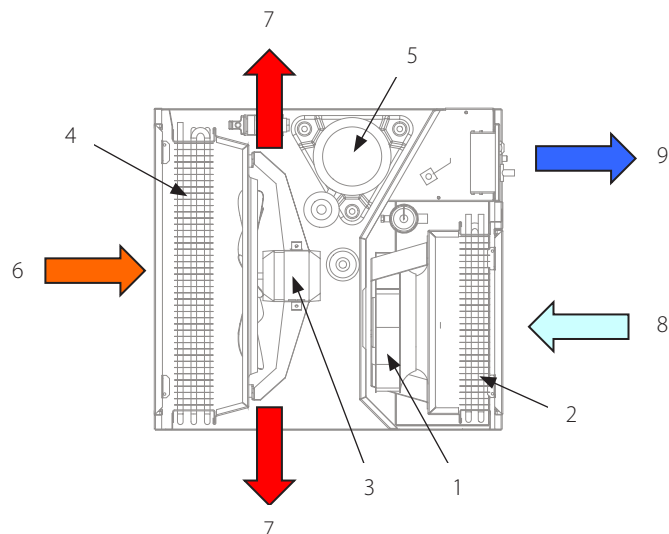
* The cooling capacity can change considerably depending on air temperature and humidity.

**Generator with 300% start allowance.

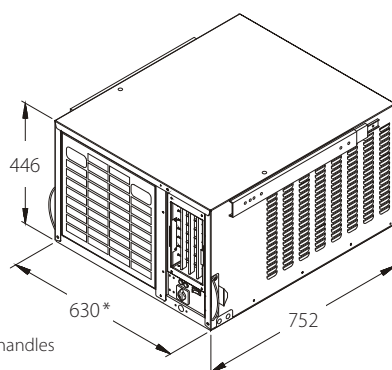
***GWP 1430 (hermetically sealed).

Unit components and airflow

1. Internal fan
2. Evaporator
3. External fan
4. Condenser
5. Compressor
6. External air intake
7. External air discharge
8. Internal warm air intake
9. Internal cooled air discharge

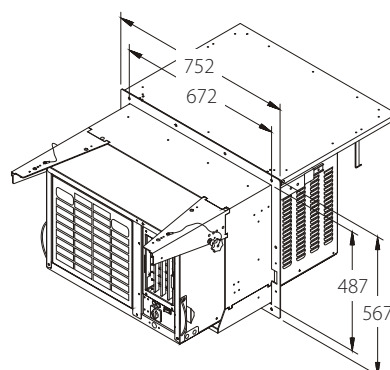


DIMENSIONS



* 698 with handles

Dimensions in mm.



Power supply plug.