



AIR CONDITIONER ACM 5 with optional heating

FUNCTION

The ACM 5 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 ACM 5 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 ACM 5 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 a special 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 ACM 5 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 ACM 5 is stored inside the container.
- CE-marked

ACCESSORIES

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



TECHNICAL DATA

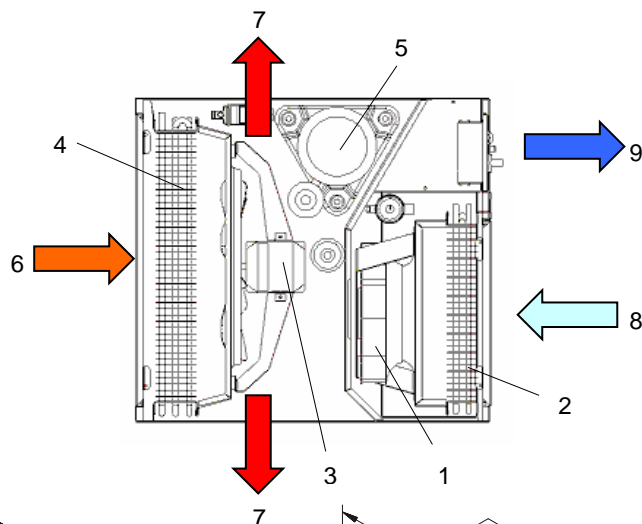
Nato Stock Number (w/o heating element)		4120-22-602-6562
Nato Stock Number (with heating element)		4120-22-614-8068
Operating range, ambient temperature, cooling	°C	20-60
Operating range, ambient temperature, heating	°C	-32-(+20)
Airflow, internal, step I / II	m³/h	420 / 700
Airflow, fresh air intake, step I / II	m³/h	37 / 60
Airflow, external	m³/h	1400
Max. cooling capacity*	kW/BTU	4,9/17000
Cooling capacity @ 55/55°C 30% r.h.	kW/BTU	4,6/16000
Cooling capacity @ 35/35°C 30% r.h.	kW/BTU	3,6/12000
Heating capacity (with electric heating element)	kW/BTU	2,0/7000
Power supply	V/Hz	1x230 / 50
Max. running current, cooling	A	9,8
Max. running current, heating	A	9,3
Locked rotor amperage (LRA), cooling	A	47
Generator requirement**	kVA	4
Max. power consumption	kW	2,3
Refrigerant / quantity	kg	R 134a / 1,4
Filter material		PPI 15
Protection class	IP	X4
Noise level, 1 m distance, step I / II	dB(A)	52 / 59
Weight net / weight with trap door system	kg	79 / 102,50

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

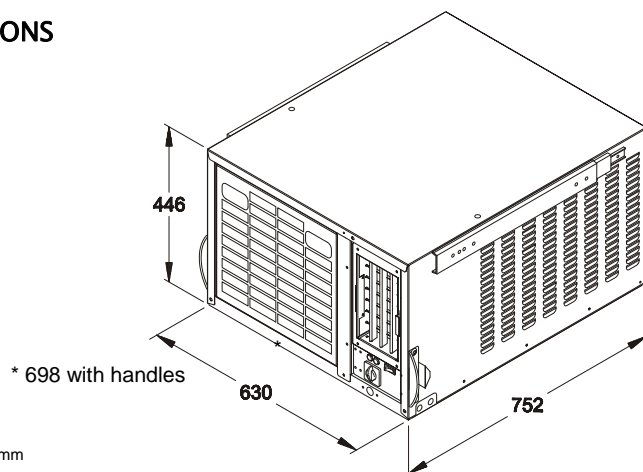
**Generator with 300% start allowance

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



Dimensions in mm

