

Self powered refrigerated container KOALA GREEN 1000

05/07/2024
Rev.1



The Koala Green refrigerated containers are powered by a LiFePO₄ battery, making them completely autonomous and independent from a vehicle. The removable battery can be recharged by connecting the Koala Green to the mains power(230V) or with an external charger after removing it from the refrigeration unit.

- Brand: MELFORM
- Country of origin: ITALY
- Customs code: 84181080
- Compatible with food contact
- Colour: melange grey/blue
- Power supply and charging at 230Vac
- Technology: rotational moulding
- Warranty: 24 months
- Fully recyclable at the end of its operational life
- Available in version on wheels. Basic and on feet versions are available on request
- Available with 120Ah **or** 150Ah **LiFePO₄ battery** depending on models

MANUFACTURING MATERIALS

Polyethylene	internal and external walls of the container and door; Suitable for food contact	Polyurethane	CFC- and HCFC-free insulating material between the container and door walls
Silicone rubber	gasket	Rubber and polyamide	wheels (rubber tread and polyamide core)
Galvanized steel	crankcase, hinge rods, hinge rod connection plates, wheel support	Stainless steel	Handling handles, closing handle, internal door rod
Polypropylene	Hinges		


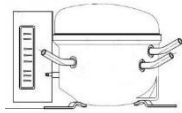










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Model	Code product	EAN code	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Weight (Kg)
Cooling unit on top ventilated 0°C+10°C 120Ah battery on wheels	K1000AFTVDYM1C	8022949206192	800x1200xh2170	605x1015xh1400	830	190
Cooling unit on top ventilated 0°C+40°C 120Ah battery on wheels	K1000AFTVDZM1C	8022949223199				
Cooling unit on top ventilated -18°C+10°C 150Ah battery on wheels	K1000AFTVCYM1D	8022949223014				193
Cooling unit on top ventilated -18°C+40°C 150Ah battery on wheels	K1000AFTVCZM1D	8022949223267				

Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 1000 AF 0°C+10°C	30	0	15
Koala Green 1000 AF 0°C+40°C			
Koala Green 1000 AF -18°C+10°C	25	-18	12
Koala Green 1000 AF -18°C+40°C			
Koala Green 1000 AF 0°C+40°C	0	40	11
Koala Green 1000 AF -18°C+40°C	0	40	12

REFRIGERATION UNIT FEATURES

	The ventilation system ensures a higher speed of reaching and uniformity of temperature inside the container		Hermetic compressor with electronic regulation and control unit equipped with surge protection
	Guaranteed refrigeration unit performance for ambient T-use: +10°C to +30°C Container (isothermal body) guaranteed for use: -30°C to +100°C		Cable for 230Vac 50-60Hz power supply (<u>standard equipment</u>)
	The battery indicator displays: <ul style="list-style-type: none"> • Battery Voltage (V) • Current (A) Input/Output • Power (W) Input/Output • Ampere hours (Ah) consumed • State of charge (%) • Remaining autonomy (h) 		LiFePO4 battery with overcharge and deep discharge protection. Guaranteed for 2000 cycles with <u>>80% charge holding capacity</u>
	Temperature regulation and control with programmable digital thermostat		Removable battery for easy replacement and charging via special external power supply Battery storage limit temperature: -20°C / +60°C
	EVlink module with bluetooth interface available on request		USB datalogger available (optional) to record temperature data during transport



Degree of accuracy: **+/-0.5°C**

Refrigerant gas: **R452a**





Rated power consumption: **1A**

Fuse: **4A**

Global heat transfer coefficient: **K= 0.34W/m2K**

Charging time battery life: **approx. 8/10h**

PRODUCT FEATURES

	4 housing seats of grids positioned at 385/785/1185/1250mm from the bottom of the container. Grids available on request.		Stainless steel rod with 2 hooks integrated inside the door.
	Monobloc structure, without edges, joints and welds.		Stainless steel closing handle with release button; prepared for the use of an anti-tampering system.
	Door sealing gasket easily removable.		Equipped with 4 rubber wheels with a diameter of 125 mm (2 fixed and 2 swivel, one of which is equipped with brake). Wheel support plate integrated into the enclosure.
	Versions available: <ul style="list-style-type: none">• BASIC• Pallet with galvanized steel frame with 4 feet (h120mm)• 4 galvanized steel feet h 120 mm		RFID systems for traceability.

ACCESSORIES	Code	Dimensions (mm)	Weight (kg)
Card holder dim. A5 in transparent plastic	RRI141	173xh200	
Stainless steel grid	AEA023	647x990xh16	5
Stainless steel folding grid	AEA029	647x990xh25	6
120Ah Auxiliary Battery	BATT120AH		14.5
150Ah Auxiliary Battery	BATT150AH		17
Battery charger for 20Ah auxiliary battery	CHARGER20A		1.5
USB data logger -30°C+70°C	AFG007	80x33xh14	