

# Self powered refrigerated container KOALA GREEN 1000

27/01/2025  
Rev.2



**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: melang 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

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


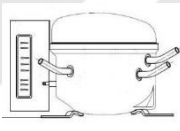










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Model	Code product	EAN code	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Weight (Kg)
<b>Top Cooling unit, ventilated 0°C+10°C 120Ah battery</b> Version with wheels	K1000AFTVDYM1C	8022949206192	800x1200xh2170	605x1015xh1400	830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

Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 1000 AF <b>0°C+10°C</b>	30	0	15
Koala Green 1000 AF <b>0°C+40°C</b>			
Koala Green 1000 AF <b>-18°C+10°C</b>	25	-18	12
Koala Green 1000 AF <b>-18°C+40°C</b>			
Koala Green 1000 AF <b>0°C+40°C</b>	0	40	11
Koala Green 1000 AF <b>-18°C+40°C</b>	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: <b>+10°C to +30°C</b> Container (isothermal body) guaranteed for use: <b>-30°C to +100°C</b>		Cable for <b>230Vac</b> 50-60Hz power supply  (standard Equipment)
	The battery indicator displays: <ul style="list-style-type: none"> <li>• Battery Voltage (V)</li> <li>• Current (A) Input/Output</li> <li>• Power (W) Input/Output</li> <li>• Ampere hours (Ah) consumed</li> <li>• State of charge (%)</li> <li>• Remaining autonomy (h)</li> </ul>		LiFePO4 battery with overcharge and deep discharge protection. Guaranteed for 2000 cycles with <u>&gt;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 <b>storage limit temperature: -20°C / +60°C</b>
	EVlink module with bluetooth interface available on request		USB datalogger available on request 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"><li>• BASIC</li><li>• Pallet with galvanized steel frame with 4 feet (h120mm)</li><li>• 4 galvanized steel feet h 120 mm</li></ul>		RFID systems for traceability

ACCESSORIES	Amperage	Weight (Kg)	Dim. (mm)	Code
Stainless steel grid		5	647x990xh16	AEA023
Stainless steel folding grid		6	647x990xh25	AEA029
Plastic card holder			A5	RRI141
Floor/vehicle fixing kit (for Basic version)			3	RRI223
USB Data Logger temperature range -30°C +70°C				AFG007
Battery charger	20 Ah			CHARGER20A
Battery KOALA GREEN	120 Ah			BATT120AH
Battery KOALA GREEN	150 Ah			BATT150AH
Battery with charger for KOALA GREEN	120 Ah			BACH120AH
Battery with charger for KOALA GREEN	150 Ah			BACH150AH



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