

# Self powered refrigerated container KOALA GREEN 370

18/06/2024  
Rev.1



ATP



The Koala Green refrigerated containers are powered by a LiFePO<sub>4</sub> 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
- ATP Certificate
- 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. Optionally available in basic version, on pallets or feet
- Available with 100Ah or 120Ah **LiFePO<sub>4</sub> 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, rod door interior
<b>Polypropylene</b>	Hinges		






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Model	Code product	EAN code	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Weight (Kg)
<b>Cooling unit on top static</b> <b>0°C +10°C</b> 100Ah battery	K370AFTSDYM1B	8022949209391	800x840xh1543	615x630xh940	370	98
<b>Cooling unit on top static</b> <b>0°C +40°C</b> 100Ah battery	K370AFTSDZM1B	8022949186401				
<b>Cooling unit on top ventilated</b> <b>-18°C +10°C</b> 120Ah battery	K370AFTVCYM1C	8022949223144	800x840xh1543	615x630xh800	325	118
<b>Cooling unit on top ventilated</b> <b>-18°C +40°C</b>	K370AFTVCZM1C	8022949223229				









Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 370 AF <b>0°C +10°C</b>	30	0	20
Koala Green 370 AF <b>0°C +40°C</b>			
Koala Green 370 AF <b>-18°C +10°C</b>	25	-18	10
Koala Green 370 AF <b>-18°C +40°C</b>			
Koala Green 370 AF <b>0°C +40°C</b>	0	40	13
Koala Green 370 AF <b>-18°C +40°C</b>	0	40	12

## REFRIGERATION UNIT FEATURES

	<p>Static versions equipped with static evaporator type "roll-bond"</p> <p>Lower energy consumption compared to the version with ventilated refrigeration unit</p>		In the ventilated versions, the ventilation system ensures a greater speed of reaching and uniformity of temperature inside the container
	<p>Guaranteed refrigeration unit performance for ambient T-use:</p> <p><b>+10°C to +30°C</b></p> <p>Container (isothermal body) guaranteed for use:</p> <p><b>-30°C to +100°C</b></p>		<p>Cable for <b>230Vac</b> 50-60Hz power supply</p> <p>(standard equipment)</p>
	<p>The battery indicator displays:</p> <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		<p>Removable battery for easy replacement and charging via special external power supply</p> <p><b>Battery storage limit temperature: -20°C / +60°C</b></p>
	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: **R134a** (0°C +10/+40°C versions)  
**R452a** (versions -18°C +10/+40°C)  
 Nominal absorption: **0.62A** (0°C +10/+40°C versions)  
**1A** (versions -18°C +10/+40°C)  
 Fuse: **4A**  
 Global heat transfer coefficient: **K=0.32 W/m2K**  
 Charging time battery life: **about 8/10h**

## PRODUCT FEATURES

	3 seats for housing grids positioned at 335/500/665mm from the bottom of the container. Grids available on request		Stainless steel rod 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
	Easily removable door sealing gasket		Equipped with 4 rubber wheels with a diameter of 100 mm (2 fixed and 2 swivel, one of which is equipped with brake) Wheel support plate integrated into the enclosure
	Also available in the following versions: <ul style="list-style-type: none"> <li>• Basic</li> <li>• Pallet with galvanized steel frame at 4 feet of h 120mm</li> <li>• 4 galvanized steel feet h 130mm</li> </ul>		RFID systems for traceability

ACCESSORIE	Code	Dimensions (mm)	Weight (kg)
Card holder dim. A5 in transparent plastic	RRI141	173xh200	
Stainless steel grid	AEA018	650x610xh16	3,85
100Ah Auxiliary Battery	BATT100AH		10
120Ah Auxiliary Battery	BATT120AH		14.5
Battery charger for 20Ah auxiliary battery	CHARGER20A		1.5
Floor vehicle /container fixing kit	RRI232		