

Self powered refrigerated container KOALA GREEN 370

16/01/2025
Rev.3



ATP



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
- ATP Certificate
- Compatible with food contact
- Colour: 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 the version on wheels. Optionally available in basic version, on pallets or feet
- Available with 100Ah or 120Ah **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, rod door interior
Polypropylene	Hinges		



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Model	Code product	EAN code	External dimensions (mm)	Internal dimensions (mm)	Cap. (lt)	Wt (Kg)
Top cooling unit, static 0°C +10°C 100Ah battery on wheels	K370AFTSDYM1B	8022949209391	800x840xh1543	615x630xh940	370	98
Top cooling unit, static 0°C +40°C 100Ah battery on wheels	K370AFTSDZM1B	8022949186401				
Top cooling unit, ventilated -18°C +10°C 120Ah battery on wheels	K370AFTVCYM1C	8022949223144		615x630xh800	325	118
Top cooling unit, ventilated -18°C +40°C 120Ah battery on wheels	K370AFTVCZM1C	8022949223229				









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

REFRIGERATION UNIT FEATURES

	Static versions equipped with static evaporator type "roll-bond" Lower energy consumption compared to the version with ventilated refrigeration unit		In the ventilated versions, the ventilation system ensures a greater speed of reaching and uniformity of temperature inside the container
	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 (standard equipment)
	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 >80% charge holding capacity
	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: **R134a** (versions: 0°C +10/+40°C)
R452a (versions: -18°C +10/+40°C)
 Nominal absorption: **0.62A** (versions: 0°C +10/+40°C)
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"> • Basic • Pallet with galvanized steel frame at 4 feet of h 120mm • 4 galvanized steel feet h 130mm 		RFID systems for traceability

ACCESSORIES	Amperage	Weight (Kg)	Dim. (mm)	Code
Stainless steel grid		3.8	650x610x16	AEA018
Plastic card holder		0.05	A5	RRI141
Floor/vehicle fixing kit for Basic version		1		RRI222
USB Data Logger, temperature range -30°C +70°C				AFG007
Battery charger	20 Ah			CHARGER20A
Battery KOALA GREEN	100 Ah			BATT100AH
Battery KOALA GREEN	120 Ah			BATT120AH
Battery with charger for KOALA GREEN	100 Ah			BACH100AH
Battery with charger for KOALA GREEN	120 Ah			BACH120AH