

Self powered refrigerated container KOALA GREEN 780

22/01/2025
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: 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 **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, rod door interior
Polypropylene	Hinges		


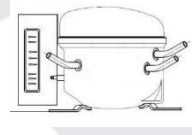









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Model	Code product	EAN code	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Wt (Kg)
Top cooling unit, ventilated 0°C +10°C 120Ah battery Version with wheels	K780AFTVDYM1C	8022949203047	800x1000xh2170	610x810xh1400	610	165
Top cooling unit, ventilated 0°C +40°C 120Ah battery Version with wheels	K780AFTVDZM1C	8022949186418				
Top cooling unit, ventilated -18°C +10°C 150Ah battery Version with wheels	K780AFTVCYM1D	8022949223007				168
Top cooling unit, ventilated -18°C +40°C 150Ah battery Version with wheels	K780AFTVCZM1D	8022949223120				



Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 780 AF 0°C +10°C	30	0	15
Koala Green 780 AF 0°C +40°C			
Koala Green 780 AF -18°C +10°C	25	-18	12
Koala Green 780 AF -18°C +40°C			
Koala Green 780 AF 0°C +40°C	0	40	12
Koala Green 780 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 case) 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 <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
	USB datalogger available (optional) to record temperature data during transport		EVlink module with bluetooth interface available on request

Degree of accuracy: **+/-0.5°C**
 Refrigerant gas: **R452a**
 Rated power consumption: **1A**
 Fuse: **4A**
 Global heat transfer coefficient: **K=0.35 W/m2K**
 Charging time battery life: **about 8/10h**

PRODUCT FEATURES

	3 seats for housing grids positioned 385/785/1185 mm from the bottom of the enclosure. 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
	Easily removable door sealing gasket		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
	Also available in the following versions: <ul style="list-style-type: none"> • Basic • Pallet with galvanized steel frame at 4 feet of h 120 mm • 4 galvanized steel feet h 120 mm 		RFID systems for traceability

ACCESSORIES	Amperage	Weight (Kg)	Dim. (mm)	Code
Stainless steel grid		4,3	647x790xh16	AEA019
Card holder in transparent plastic			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