

Self powered refrigerated container KOALA GREEN 140

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 with 100Ah **LiFePO₄ battery**

MANUFACTURING MATERIALS

Polyethylene	internal and external walls of the container and door; Suitable for food contact	Polyurethane	insulating material between the walls of the container and the door, free of CFC and HCFC
Silicone rubber	gasket	Polyamide and fiberglass	closures
Stainless steel	Grab Handles	Aluminium	Crankcase and hinge



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Model	Code product	EAN code	Ext. Dim. (mm)	Int. Dim. (mm)	Cap (lt)	Wt (kg)
Cooling unit integrated static 100Ah battery 0 °C to +10°C	K140AFISDYM0B	8022949198305	1000x620xh710	620x415xh515	135	57
Cooling unit integrated static 100Ah battery 0°C to +40°C	K140AFISDZM0B	8022949198794				
Cooling unit integrated static 100Ah battery -25°C to +10°C	K140AFISBYM0B	8022949190996				
Cooling unit integrated static 100Ah battery -25°C to +40°C	K140AFISBZM0B	8022949206796				
Cooling unit integrated static 100Ah battery -30°C to +10°C	K140AFISAYM0B	8022949187200				
Cooling unit integrated static 100Ah battery -30°C to +40°C	K140AFISAZM0B	8022949186210				









Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 140 0°C +10°C	30	0	25
Koala Green 140 0°C +40°C			
Koala Green 140 -25°C +10°C	30	-25	11
Koala Green 140 -25°C +40°C			
Koala Green 140 -30°C +10°C	25	-30	10
Koala Green 140 -30°C +40°C			
Koala Green 140 0°C +40°C	0	40	80
Koala Green 140 -25°C +40°C			
Koala Green 140 -30°C +40°C			



REFRIGERATION UNIT FEATURES

	Refrigeration unit equipped with a static "roll-bond" evaporator		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 (<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
<p>Degree of accuracy: +/-0.5°C Refrigerant gas: R134a (versions: 0°C +10/+40°C) R452a (versions: -25°C +10/+40°C, -30°C +10/+40°C) Nominal absorption: 0.35A (versions: 0°C +10/+40°C) 1A (versions: -25°C +10/+40°C, -30°C +10/+40°C) Fuse: 4A Global heat transfer coefficient: K=0.35 W/m2K Charging time battery life: approx. 8/10h</p>			

PRODUCT FEATURES

	Equipped with opening door up to 240°, with hinge integrated in the container		5 seats for housing grids positioned 62/152/242/332/422 mm from the base of the container. Grids available on request
	Monobloc structure, without edges, joints and welds		Closure hooks in shockproof material
	Easily removable door sealing gasket		Equipped with integrated stainless steel grab handles
	Insulation with CFC- and HCFC-free polyurethane foam		RFID systems for traceability

ACCESSORIES	Amperage	Weight (kg)	Dim. (mm)	Code
Stainless steel grid		2.2	450x620x12	AEA030
Galvanized steel trolley		13	1011x631x208	AIB005
Fixing kit for modular system		0.65		RRI137
Floor/vehicle fixing kit		0.4		RRI144
USB Data Logger, temperature range - 30°C +70°C				AFG007
Expanding plastic card holder		0.15	A5	RRI170
Battery charger	20 Ah			CHARGER20A
Battery KOALA GREEN	100 Ah			BATT100AH
Battery with charger for KOALA GREEN	100 Ah			BACH100AH

