

Self powered refrigerated container KOALA GREEN 495

20/01/2025
Rev.2



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 basic and wheeled versions. Version on feet, available on request
- 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	insulating material between the walls of the container and the door, free of CFC and HCFC
Silicone rubber	gasket	Rubber and polyamide	wheels (rubber tread and polyamide core)
Galvanized steel	Crankcase, wheel support	Stainless steel	closing handle, rod door interior



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Model	Code product	Code EAN	External dimensions (mm)	Internal dimensions (mm)	Cap. (lt)	Wt (Kg)
Integrated cooling unit, static 0°C +10°C 120Ah battery Basic	K495AFISDYM0C	8022949223045	855x1285xh1195	625x850xh950	505	135
Integrated cooling unit, static 0°C+40°C 120Ah battery Basic	K495AFISDZM0C	8022949223212				
Integrated cooling unit, ventilated -25°C+10°C 150Ah battery Basic	K495AFIVBYM0D	8022949223151		625x850xh805	430	142
Integrated cooling unit, ventilated -25°C+40°C 150Ah battery Basic	K495AFIVBZM0D	8022949223168				
Integrated cooling unit, static 0°C+10°C 120Ah battery Versions with wheels	K495AFISDYM1C	8022949223106	855x1285xh1360	625x850xh950	500	138
Integrated cooling unit, static 0°C+40°C 120Ah battery Versions with wheels	K495AFISDZM1C	8022949217655				
Integrated cooling unit, ventilated -25°C+10°C 150Ah battery Versions with wheels	K495AFIVBYM1D	8022949223182		625x850xh805	430	146
Integrated cooling unit, ventilated -25°C+40°C 150Ah battery Versions with wheels	K495AFIVBZM1D	8022949223137				









Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 495 AF 0°C+10°C	30	0	14
Koala Green 495 AF 0°C+40°C			
Koala Green 495 AF -25°C+10°C	25	-25	12
Koala Green 495 AF -25°C+40°C			
Koala Green 495 AF 0°C+40°C	0	40	16
Koala Green 495 AF -25°C+40°C	0	40	17

ACCESSORIES	Amperage	Wt (Kg)	Dim. (mm)	Code
Plastic card holder		0,05	A5	RRI141
Stainless steel grid		4,7	643x835x16	AEA046
Floor/vehicle fixing kit (for Basic version)		3		RRI223
USB Data Logger temperature range -30°C +70°C				AFG007
Battery Charger	20 Ah			CHARGER20A
KOALA GREEN Battery	120 Ah			BATT120AH
KOALA GREEN Battery	150 Ah			BATT150AH
KOALA GREEN Battery with Battery Charger	120 Ah			BACH120AH
KOALA GREEN Battery with Battery Charger	150 Ah			BACH150AH



	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: • 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
	Available EVlink module with bluetooth interface		USB datalogger available to record temperature data during transport
<p>Degree of accuracy: +/-0.5°C Refrigerant gas: R134a (versions: 0°C+10, 0°C+40°C) R452a (versions: -25°C+10°C, -25°C+40°C versions) Nominal absorption: 0.62A (versions: 0°C+10°C, 0°C+40°C versions) 1A (versions: -25°C+10°C, -25°C+40°C versions) Fuse: 4A Global heat transfer coefficient: K=0.35 W/m2K Charging time battery life: about 8/10h</p>			

PRODUCT FEATURES

	Stainless steel closing handle with release button; prepared for the use of an anti-tampering system		Stainless steel rod with 2 hooks integrated in the door
	3 seats for housing grids positioned at 290/480/660mm from the bottom of the container.		Monobloc structure, without edges, joints and welds
	Easily removable door sealing gasket		Version on wheels equipped with 4 rubber wheels with a diameter of 125mm (2 fixed and 2 swivel, one of which is equipped with brake) Wheel support plate integrated into the body
	Also available in a version with 4 galvanized steel feet h 100mm		RFID systems for traceability