

Self powered refrigerated container

KOALA GREEN 495

04/07/2024
Rev.0



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: mélange 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



Via Savigliano 34 - 12030 Monasterolo di Savigliano (CN) - ITALY
Tel. +39 0172812600 - info@melform.com
www.melform.com

Model	Code product	Code EAN	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Weight (Kg)
Cooling unit integrated static 0°C +10°C 120Ah battery BASIC	K495AFISDYM0C	8022949223045	855x1285xh1195	625x850xh950	505	135
Cooling unit integrated static 0°C+40°C 120Ah battery BASIC	K495AFISDZM0C	8022949223212				
Cooling unit integrated ventilated -25°C+10°C 150Ah battery BASIC	K495AFIVBYM0D	8022949223151	855x1285xh1195	625x850xh805	430	142
Cooling unit integrated ventilated -25°C+40°C 150Ah battery BASIC	K495AFIVBZM0D	8022949223168				
Cooling unit integrated static 0°C+10°C 120Ah battery on wheels	K495AFISDYM1C	8022949223106	855x1285xh1360	625x850xh950	500	138
Cooling unit integrated static 0°C+40°C 120Ah battery on wheels	K495AFISDZM1C	8022949217655				
Cooling unit integrated ventilated -25°C+10°C 150Ah battery on wheels	K495AFIVBYM1D	8022949223182	855x1285xh1360	625x850xh805	430	146
Cooling unit integrated ventilated -25°C+40°C 150Ah battery on 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

Degree of accuracy: **+/-0.5°C**

Refrigerant gas: **R134a** (0°C+10, 0°C+40°C versions)

R452a (-25°C+10°C, -25°C+40°C versions)

Nominal absorption: **0.62A** (0°C+10°C, 0°C+40°C versions)

1A (-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**




Via Savigliano 34 - 12030 Monasterolo di Savigliano (CN) - ITALY









Tel. +39 0172812600 - info@melform.com

www.melform.com

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 <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

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. Grids available on request		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

ACCESSORIES	Code	Dimensions (mm)	Weight (kg)
Card holder dim. A5 in transparent plastic	RRI141	173xh200	
Stainless steel grid	AEA046	643x835xh16	4,7
Floor Vehicle/container fixing kit	RRI223		3
120Ah Auxiliary Battery	BATT120AH		14.5
150Ah Auxiliary Battery	BATT150AH		17
Battery charger for 20Ah auxiliary battery	CHARGER20A		1.5
USB data logger -30°C+70°C	AFG007	80x33xh14	

