



# KOALA GREEN 495



ATP

**SELF-POWERED REFRIGERATED  
CONTAINER FOR THE TRANSPORT  
OF TEMPERATURE-CONTROLLED  
PRODUCTS**



[www.melform.com](http://www.melform.com)



# KOALA GREEN 495

- 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

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.



## MANUFACTURING MATERIALS

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**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).

**STAINLESS STEEL:** maneuvering handles, closing handle, rod door interior.

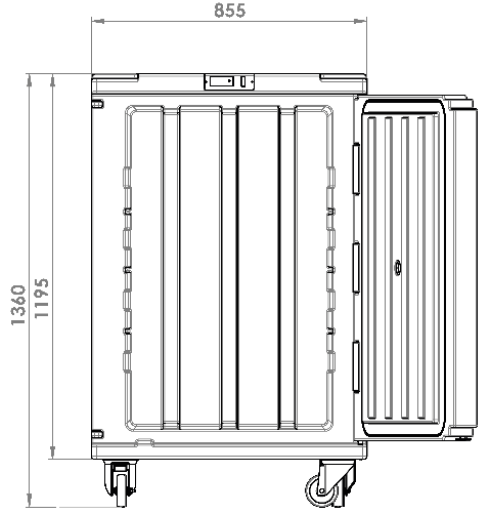
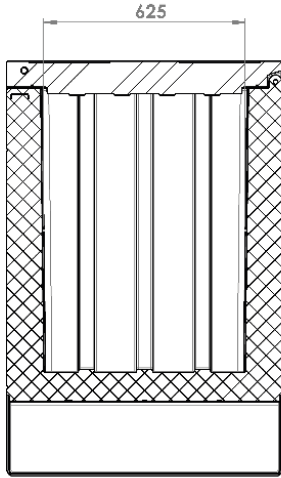
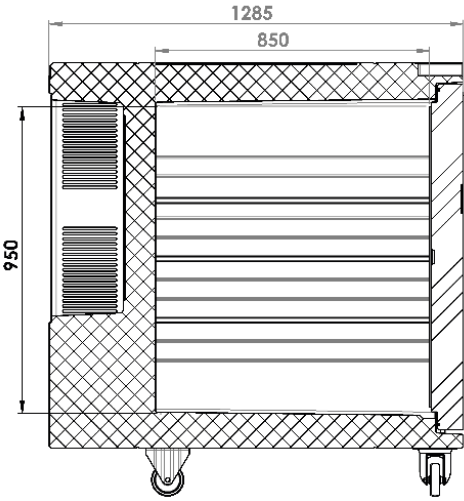
**GALVANIZED STEEL:** crankcase, wheel support.

# AVAILABLE MODELS

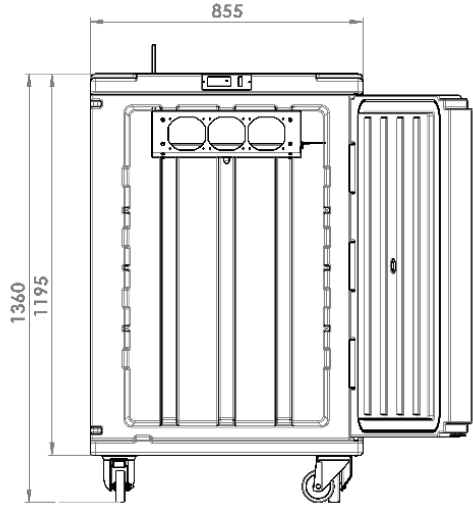
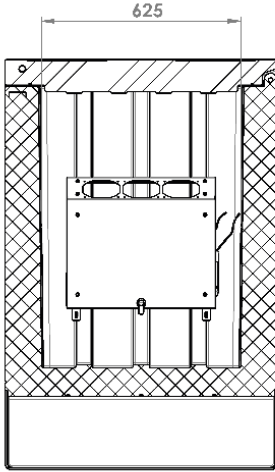
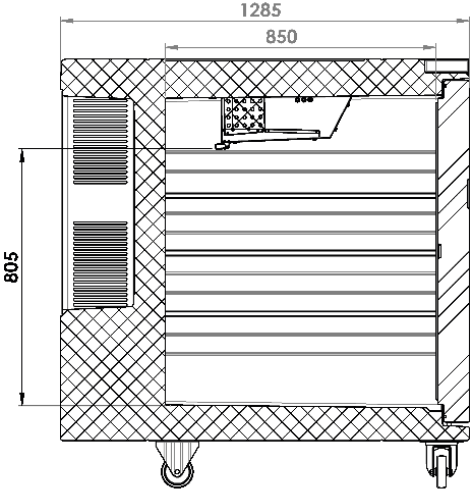
MODEL	SKU	EAN CODE	EXT. DIM. (mm)	INT. DIM. (mm)	CAPACITY (l)	WEIGHT (kg)
INTEGRATED COOLING UNIT, STATIC 0°C /+10°C BASIC 120Ah BATTERY	K495AFISDYM0C	8022949223045	855x1285xh1195	625x850xh950	505	135
INTEGRATED COOLING UNIT, STATIC 0°C /+40°C BASIC 120Ah BATTERY	K495AFISDZM0C	8022949223212	855x1285xh1195	625x850xh950	505	135
INTEGRATED COOLING UNIT, VENTILATED -25°C /+10°C BASIC 150Ah BATTERY	K495AFIVBYM0D	8022949223151	855x1285xh1195	625x850xh805	430	142
INTEGRATED COOLING UNIT, VENTILATED -25°C/+40°C BASIC 150Ah BATTERY	K495AFIVBZM0D	8022949223168	855x1285xh1195	625x850xh805	430	142
INTEGRATED COOLING UNIT, STATIC 0°C+10°C 0°C /+10°C WHEELS 120Ah BATTERY	K495AFISDYM1C	8022949223106	855x1285xh1360	625x850xh950	500	138
INTEGRATED COOLING UNIT, STATIC 0°C /+40°C WHEELS 120Ah BATTERY	K495AFISDZM1C	8022949217655	855x1285xh1360	625x850xh950	500	138
INTEGRATED COOLING UNIT, VENTILATED -25°C /+10°C WHEELS 150Ah BATTERY	K495AFIVBYM1D	8022949223182	855x1285xh1360	625x850xh805	430	146
INTEGRATED COOLING UNIT, VENTILATED -25°C /+40°C WHEELS 150Ah BATTERY	K495AFIVBZM1D	8022949223137	855x1285xh1360	625x850xh805	430	146

MODEL	AMBIENT TEMP. (°C)	TEMP. SET POINT (°C)	BATTERY LIFE (H)
KOALA GREEN 495 0°C+10°C	30	0	14
KOALA GREEN 495 0°C+40°C	30	0	14
KOALA GREEN 495 -25°C+10°C	25	-25	12
KOALA GREEN 495 -25°C+40°C	25	-25	12
KOALA GREEN 495 0°C+40°C	0	40	16
KOALA GREEN 495 -25°C+40°C	0	40	17

# DIMENSIONAL DRAWING



**Koala Green 495 static**



**Koala Green 495 ventilated**

# FEATURES COOLING UNIT



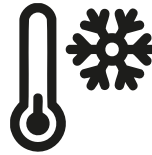
Static versions equipped with static evaporator type "roll-bond". Lower energy consumption compared to the version with ventilated refrigeration unit



In the ventilated versions, the ventilation system ensures a greater speed of reaching and uniformity of temperature inside the container



LiFePO4 battery with overcharge and deep discharge protection. Guaranteed for 2000 cycles with >80% charge holding capacity



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)



Removable battery for easy replacement and charging via special external power supply

**Battery storage limit temperature: -20°C / +60°C**



Temperature regulation and control with programmable digital thermostat



Available EVlink module with bluetooth interface



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)



USB datalogger available to record temperature data during transport

Degree of accuracy: **+/-0,5 °C**

Refrigerant gas:

- **R134a (versions 0°C +10/+40°C);**
- **R452a (versions -25°C +10/+40°C);**

Nominal absorption:

- **0,62A (versions 0°C+10°C, 0°C+40°C)**
- **1A (versions -25°C+10°C, -25°C+40°C)**

Fuse: **4A**

Global heat transfer coefficient: **K=0.35 W/m²K**

Charging time battery life: **about 8/10h**

# 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.



Integrated front grab handles, designed to ensure ergonomic and safe handling.



Struttura monoblocco, senza spigoli, giunzioni e saldature



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



Also available in a version with 4 galvanized steel feet h 100mm



RFID systems for traceability

# ACCESSORIES

ACCESSORIES	SKU	AMPERAGE	DIM. (mm)	WEIGHT (kg)
Floor/vehicle fixing kit (for Basic version)	RRI223			3
Stainless steel grid	AEA046		643x835xh16	4,7
Plastic card holder	RRI141		A5	0,05
USB Data Logger temperature range -30°C +70°C	AFG007			
Battery Charger	CHARGER20A	20 Ah		
KOALA GREEN Battery	BATT120AH	120 Ah		
KOALA GREEN Battery	BATT150AH	150 Ah		
KOALA GREEN Battery with Battery Charger	BACH120AH	120 Ah		
KOALA GREEN Battery with Battery Charger	BACH150AH	150 Ah		