

Self-powered refrigerated container KOALA GREEN 1300

19/06/2024
Rev.0



Koala Green refrigerated containers are powered by a LiFePO₄ battery, making them completely autonomous and independent of a vehicle. The removable battery can be recharged by connecting the Koala Green to the mains power (230V) or with the external charger after removing it from the refrigeration unit.

- Brand: MELFORM
- Country of origin: ITALY
- Commodity code: 84181080
- ATP Certificate
- Compatible with food contact
- Colour: melange 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. Basic and on feet versions are available on request
- Available with 150Ah **LiFePO₄ battery**

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, support wheels | Stainless steel | Handling handles, closing handle, internal door rod |
| Polypropylene | Hinges | | |






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| Model | Code product | EAN code | External dimensions (mm) | Internal dimensions (mm) | Capacity (litres) | Weight (Kg) |
|---|----------------|---------------|--------------------------|--------------------------|-------------------|-------------|
| Cooling unit on top ventilated 0 °C to +10°C 150Ah battery | K1300AFTVDYM1D | 8022949224998 | 985X1405Xh1925 | 810x1210xh1140 | 1115 | 200 |
| | K1300AFTVDZM1D | 8022949225001 | | | | |

| Code | Ambient Temp. (°C) | Temp. Set Point (°C) | Battery life (h) |
|---------------------------------------|--------------------|----------------------|------------------|
| Koala Green 1300 0° C to +10°C | 30 | 0 | 11 |
| Koala Green 1300 0° C to +40°C | | | |

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 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 |
|  | 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**








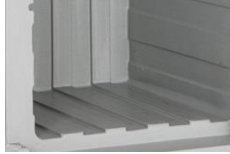
Global heat transfer coefficient: **K= 0.34W/m2K**

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



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PRODUCT FEATURES

| | | | |
|---|--|--|--|
|  | 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 body. |  | Available in version with 6 galvanized steel feet h 120mm |
|  | Stainless steel closing handle with release button; prepared for the use of an anti-tampering system |  | Easily removable door sealing gasket |
|  | Card holder (on request) for identification of the content or destination. Suitable for A5 documents |  | Double pivot hinge system. Improved door stability over time |
|  | Door can be opened up to 270° with flap door stop |  | Stainless steel rod with 2 hooks, integrated inside the door |
|  | Monobloc structure, without edges, joints and welds |  | Internal grooves to allow good air circulation |

| FIXINGS | Code | Dimensions (mm) | Weight (kg) |
|--|------------|-----------------|-------------|
| Card holer dim.A5 in transparent plastic | RRI141 | 173xh200 | |
| 150Ah Auxiliary Battery | BATT150AH | | 17 |
| Battery charger for 20Ah auxiliary battery | CHARGER20A | | 1.5 |