

Self powered refrigerated container KOALA GREEN 370

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 in the version on wheels. Optionally available in basic version, on pallets or feet
- Available with 100Ah or 120Ah **LiFePO4 battery** depending on models

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, wheel support | Stainless steel | handling handles, closing handle, rod door interior |
| Polypropylene | Hinges | | |



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

| Model | Code product | EAN code | External dimensions (mm) | Internal dimensions (mm) | Cap. (lt) | Wt (Kg) |
|------------------------------------------------------------------------------------------------|---------------|---------------|--------------------------|--------------------------|-----------|---------|
| Top cooling unit, static 0°C +10°C 100Ah battery on wheels | K370AFTSDYM1B | 8022949209391 | 800x840xh1543 | 615x630xh940 | 370 | 98 |
| Top cooling unit, static 0°C +40°C 100Ah battery on wheels | K370AFTSDZM1B | 8022949186401 | | | | |
| Top cooling unit, ventilated -18°C +10°C 120Ah battery on wheels | K370AFTVCYM1C | 8022949223144 | | 615x630xh800 | 325 | 118 |
| Top cooling unit, ventilated -18°C +40°C 120Ah battery on wheels | K370AFTVCZM1C | 8022949223229 | | | | |









| Model | Ambient Temp. (°C) | Temp. Set Point (°C) | Battery life (h) |
|---------------------------------------|--------------------|----------------------|------------------|
| Koala Green 370 AF 0°C +10°C | 30 | 0 | 20 |
| Koala Green 370 AF 0°C +40°C | | | |
| Koala Green 370 AF -18°C +10°C | 25 | -18 | 10 |
| Koala Green 370 AF -18°C +40°C | | | |
| Koala Green 370 AF 0°C +40°C | 0 | 40 | 13 |
| Koala Green 370 AF -18°C +40°C | 0 | 40 | 12 |

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 >80% charge holding capacity |
|  | 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 |

Degree of accuracy: **+/-0.5°C**
 Refrigerant gas: **R134a** (versions: 0°C +10/+40°C)
R452a (versions: -18°C +10/+40°C)
 Nominal absorption: **0.62A** (versions: 0°C +10/+40°C)
1A (versions: -18°C +10/+40°C)
 Fuse: **4A**
 Global heat transfer coefficient: **K=0.32 W/m2K**
 Charging time battery life: **about 8/10h**

PRODUCT FEATURES

| | | | |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 3 seats for housing grids positioned at 335/500/665mm from the bottom of the container. Grids available on request |  | Stainless steel rod 2 hooks integrated inside the door |
|  | Monobloc structure, without edges, joints and welds |  | Stainless steel closing handle with release button; prepared for the use of an anti-tampering system |
|  | Easily removable door sealing gasket |  | Equipped with 4 rubber wheels with a diameter of 100 mm (2 fixed and 2 swivel, one of which is equipped with brake) Wheel support plate integrated into the enclosure |
|  | Also available in the following versions: <ul style="list-style-type: none"> • Basic • Pallet with galvanized steel frame at 4 feet of h 120mm • 4 galvanized steel feet h 130mm |  | RFID systems for traceability |

| ACCESSORIES | Amperage | Weight (Kg) | Dim. (mm) | Code |
|------------------------------------------------|----------|-------------|------------|------------|
| Stainless steel grid | | 3.8 | 650x610x16 | AEA018 |
| Plastic card holder | | 0.05 | A5 | RRI141 |
| Floor/vehicle fixing kit for Basic version | | 1 | | RRI222 |
| USB Data Logger, temperature range -30°C +70°C | | | | AFG007 |
| Battery charger | 20 Ah | | | CHARGER20A |
| Battery KOALA GREEN | 100 Ah | | | BATT100AH |
| Battery KOALA GREEN | 120 Ah | | | BATT120AH |
| Battery with charger for KOALA GREEN | 100 Ah | | | BACH100AH |
| Battery with charger for KOALA GREEN | 120 Ah | | | BACH120AH |

