

KOALA GREEN 1000 AF



Self-powered refrigerated container with removable battery

- Available in versions:
 - **AF:** with temperature adjustment range -18°C $+10^{\circ}\text{C}$;
 - **AFH:** with heating kit and temperature adjustment range -18°C $+40^{\circ}\text{C}$.
- Available with 100Ah or 120Ah LiFePO4 batteries
- The battery can be recharged connecting Koala Green to the usual 230Vac main power for about 8/10 hours.
- In alternative, a practical counter allows to remove the battery from the cooling unit and recharge it with a dedicated external power supply.
- The battery LiFePO4 stores the energy necessary for the power supply of cooling unit. Once recharged, the battery gives the container autonomy. The autonomy duration depends on the battery amperage, the features of the refrigerated container, the size of the load, the temperature setting and the ambient temperature.
- The insulation provided by the container walls guarantees the temperature maintenance with a minimum number of ignitions of the cooling unit and this helps to limit the energy consumption.
- The cooling unit comes into operation when the internal temperature is higher than the temperature set by programmable digital thermostat. This allows the temperature to be maintained at a constant level, even at very cold external temperatures.
- In AFH versions the cooling unit starts working when the internal temperature is lower than the temperature set by the programmable digital thermostat. This allows to keep the temperature constant even in very cold external temperatures.
- Total maintenance of the required temperature at all stages of transport.
- Equipped with a low-consumption cooling unit.
- It can be powered at 230Vac using normal main power.
- Manufactured using the rotational moulding technology: mono-block container and door (free of sharp edges, joints and welds).
- **Fully recyclable** at the end of its operation life.

MANUFACTURING MATERIALS

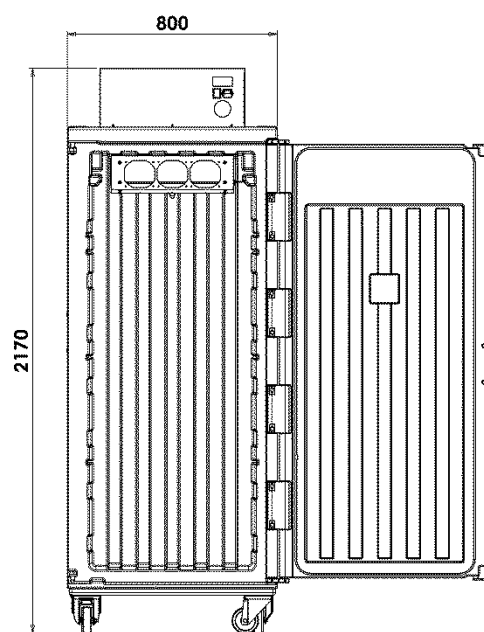
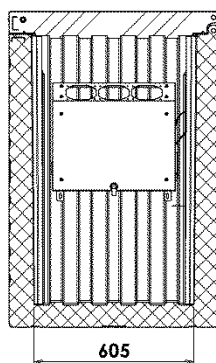
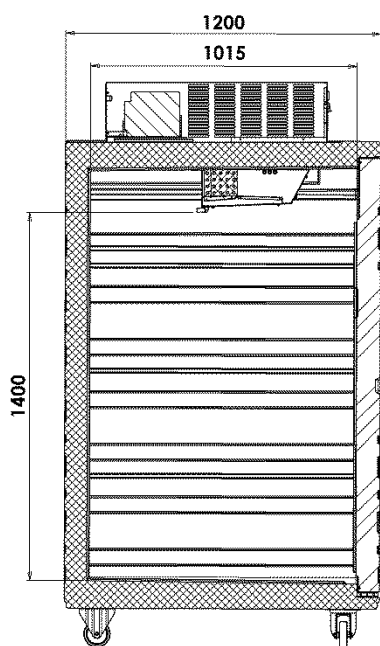
Polyethylene	inner and outside walls of the container and the door; suitable for food contact.	Polyurethane	insulating material between the walls of the container and the door, free of CFC and HCFC
Silicon rubber	gasket	Polyamide and rubber	castors (rubber tread and polyamide core)
Galvanised steel	crankcase, hinge rods, hinge rods connection plates castors support	Stainless steel	handling handles, locking handle, internal door rod
Polypropylene	hinges		

TECHNICAL FEATURES

AF model	<ul style="list-style-type: none"> • 0°C +10°C • -18°C +10°C 	AFH model	<ul style="list-style-type: none"> • 0°C +40°C • -18°C +40°C
+/- 0,5 °C	Degree of accuracy in temperature control: +/-0,5 °C		Performance of the cooling unit guaranteed for use at ambient temperature: +10°C +32°C
	Container (insulated case) guaranteed for use: -30°C +100°C	GAS	R452A
	Equipped with cable for power supply to 230Vac 50-60Hz of the cooling unit and for battery recharging.		Removable battery for easy replacement and recharging with external power supply. Battery storage limit temperature: -20°C +60°C
	Ventilation system to ensure a faster and more uniform temperature inside the container.		Hermetic compressor with electronic control unit for adjustment and control equipped with overvoltage protections.
	Adjustment and control of the temperature with programmable digital thermostat.		Battery indicator displays: <ul style="list-style-type: none"> • Battery voltage (V) • Input/output current (A) • Input/output power (W) • Amper hours (Ah) consumed • Charging status (%) • Remaining autonomy (h)
	Insulated with CFC and HCFC free polyurethane foam		4 seats for housing of grids positioned at 385/785/1185/1250mm from the bottom of the container. Grids available on request.

TECHNICAL FEATURES			
	Stainless steel locking handle with release button; it is studied for the use of tamper-proof system		Mono-block structure, no sharp edges, joints and welds
	4 rubber coated castors of 125 mm diameter (2 fixed and 2 swivel of which one equipped with brake). Support runners plate integrated in the container.		Available also in versions: <ul style="list-style-type: none"> • Pallet with 4 feet galvanised steel frame 120 mm • 4 feet in galvanised steel h130mm
	Label holder for identification of contents or destination on request. Suitable for documents A5 format		Sistema di cerniere a doppio perno. Migliore stabilità della porta nel tempo
	Door opening up to 270° with door retaining catch		Easily removable door gasket
	Stainless steel rod with 2 hooks integrated inside the door		Internal grooves for good air circulation.
	USB datalogger available on request to record temperature data during transport.		EVlink module with Bluetooth interface available on request.

TECHNICAL SPECIFICATIONS (mm)



Model with cooling unit on top ventilated

MODEL	Code	Nominal Absorption 230Vac (A)	Fusible 230Vac (A)	External Dim. (mm)	Internal Dim. (mm)	Weight (kg)
AF VERSION						
Koala Green 1000 AF Cooling on top vent. 0°C +10°C	K1000AFTVDYM1	1A	4A	800X1200Xh2170	605x1015xh1400	164
Koala 1000 AF Cooling on top vent. -18°C +10°C	K1000AFTVCYM1	1A	4A	800X1200Xh2170	605x1015xh1400	164
AFH VERSION (with heating kit)						
Koala Green 1000 AFH Cooling on top vent. 0°C +40°C	K1000AFTVDZM1	1A	4A	800X1200Xh2170	605x1015xh1400	164
Koala Green 1000 AFH Cooling on top vent. -18°C +40°C	K1000AFTVCZM1	1A	4A	800X1200Xh2170	605x1015xh1400	164

BATTERY	Code	Weight (kg)		
Battery 100Ah	EPKIT100	14.5		
Battery 120Ah	EPKIT120	14.5		
ACCESSORIES	Code	External Dim. (mm)	Internal Dim. (mm)	Weight (kg)
Label holder	AMC101	173xh200	148xh210 -A5-	
Stainless steel grid	AEA023	647x990xh16		5
Stainless steel folding grid	AEA029	647x990xh25		6
Additional battery kit 100Ah	BATT100AH			
Additional battery kit 120Ah	BATT120AH			
Battery charger 10A	CHARGER10A			
Battery charger 20A	CHARGER20A			



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