Koala
Biomed Line

Guide to correct use and maintenance

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1. INTRODUCTION

1.1 Area of use

The refrigerated containers in the Koala Biomed Line have been designed and built for temperature-controlled transport of biomedical products (blood and hemoderivatives, vaccines, insulin, lab samples, organs....). They represent the solution for transport over long distances or for which precise temperature control is required for the duration of transport.
The Koala Biomed Line is designed for chilled and heated transport (digital thermostat setting range: 0°C to +40°C) or for chilled, frozen and heated transport (digital thermostat setting range: -18°C to – or -25°C, depending on the model – +40°C).
The environment temperature of reference is between +10°C and +32°C. Outside of this range, the performance levels declared for the refrigerated containers may vary.
It is possible to study personalized solutions for specific needs, such as, for example, models with acoustic alarm.

IMPORTANT
It is mandatory to ensure that the environment temperature at which Koala works never exceeds 45°C: above this limit, the electronics of the refrigerated container can undergo irreversible damage.
Therefore we recommend to install **aeration turrets on vehicles with covered body**, that, in specific climates, may easily reach and exceed critical temperatures.
To ensure the correct operation of the Koala Biomed Line containers, it is mandatory **to ensure the maximum aeration** of the work environment, leaving a free space of **at least 20cm around the ventilation grilles**.

1.2 Consulting the manual

This manual has been arranged in such a way that the user can find all the information needed for quick and easy maintenance.
Consequently it must be made available to maintenance staff and operators at all times.
The instructions must be read carefully before using the product.

1.3 Warranty

The product is guaranteed against manufacturing faults for twelve months from the date of purchase, as long as:
- it has always been used in compliance with the manufacturer's instructions;
- it has not been connected to an inadequate power source;
- it has not been damaged by improper use.

The warranty does not cover accidental damage during transport, due to negligence, improper use or failure to observe the contents of these instructions for use. The warranty shall become null if the product is repaired or interfered with by unauthorised third parties.
Contact your local dealer or the Melform commercial offices for assistance or for the supply of original spare parts.
The manufacturer reserves the right to change the characteristics of the models at any time, without prior notice. The colour may be subject to change.

2. WARNINGS

The product is built to the state of the art. All requirements for the safe and correct operation of the appliance have been satisfied.
The manager of the user company is recommended to train staff in order to ensure that the container is destined exclusively to the use for which it has been designed and used correctly as indicated in these instructions.

2.1 General recommendations

- The use of the container must comply with the manufacturer's instructions. The function of the Koala Biomed line container is that of guaranteeing the maintenance of temperature (hot, chilled or frozen) required during transport. Different functions or operating modes should be avoided.
- For repairs, always contact a service centre authorised by the manufacturer and insist on the use of original spare parts.
- Never exceed the environment temperature of +45°C: above this temperature the electronics of the refrigerated container can undergo irreversible damage.
- Never cover the ventilation grilles. Leave a free space of at least 20cm around the ventilation grilles.
- Do not store the container into cold stores. The high humidity level in the air could damage the electronics of the container. The low temperature could solidify the oil contained in the refrigerated unit. Do not store the container at a temperature lower than 0°C.
- Periodically check for the condition of the container.
- Use the container on flat surfaces only.
- Switch off the cooling unit in the case of tipping or steep inclination. Reposition the container on a flat surface and wait for at least 1 hour before switching the cooling unit on again.
- Do not activate the cooling unit if it has been dropped or damaged.
- Do not bring the container into contact with sharp or pointed surfaces or sources of direct heat (naked flames).
- Do not expose the container to splashing water, rain, weathering or aggressive and pollutant atmosphere (smoke, fumes).
- Never wash the container with steam jet or pressurised appliances.
- Do not leave the container exposed to direct sunlight for a number of hours.
- Do not install the container near to sinks or taps.
- Do not install the container near cookers, heaters or other appliances which give off heat.
- Do not store flammable liquids in the container.
- Do not touch the evaporator with wet hands.

IMPORTANT
The manufacturer declines all responsibility if the accident prevention standards in force are not observed by the user company.

3. USING THE PRODUCT

3.1 Using the product for the first time

The container was cleaned before leaving the factory. However, we recommend washing the container, following the instructions given in paragraph 4.1 "Washing Instructions" before using it.

3.2 Types of refrigerated containers

Koala Biomed Line refrigerated containers may be:
- integrated: the cooling unit is integrated in the body of the container;
- with backpack: the cooling unit is positioned inside a metal guard fixed on the top, back, or side of the isothermal container.

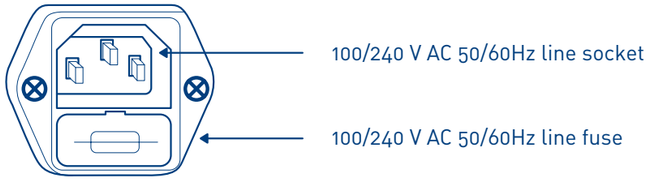
3.3 Installation

The Koala Biomed Line containers can be powered with 12V DC power or with 100/240V AC 50/60 Hz. power.
For the AC use, the Koala Biomed Line containers are set for standard operation with 240V AC; for the operation with 100V AC it is necessary to operate a selector located on the power supply.

If the local grid voltage is too high or too low, the compressor does not work and the electronics of the equipment may be damaged.

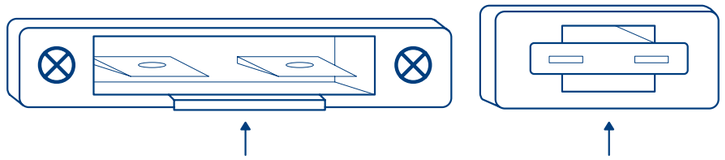
The cooling unit is protected by the following fuses:
- 15 A fuse, located near the 12V DC socket;
- 4 A fuse, located on the 100/240V AC 50/60Hz socket.

Alternate current connection 100/240 V AC 50/60Hz:
- check that the plug on the power cable is suitable for the electricity socket;
- ensure that the socket has an efficient earth contract and adequate capacity. The electrical safety is only guaranteed when it is correctly connected to an efficient earth system; systems which do not comply with the standards in force could cause injury or damage;
- do not use AC/AC transformers to power the cooling unit.



Drawing 1: 100/240V AC 50/60Hz connection socket

12V DC connection:
- use original cables supplied by the manufacturer only;
- different connections must be assessed and made by qualified personnel;
- in case of installation of **multiple Koala Biomed Line containers on the same vehicle, we recommend to refer to the Melform commercial offices**, in order to evaluate the correct current inputs and the sections of the power cables, to guarantee the correct operation of the system.



Drawing 2: 12V DC connection socket

To prevent drops in voltage and losses of power:
- the cable must be as short as possible and must not be sectioned;
- avoid using additional switches, plugs or junction boxes;
- the cable section must be selected depending on its length;
- do not connect other electric appliances on the cable of the cooling unit;
- the connection of the cooling unit to the battery must be direct and dedicated;
- do not use portable generators, they could cause damages due to voltage peaks and frequency variations;
- do notuse battery chargers to power the cooling unit;
- maintain a free surface around the cooling unit (at least 20 cm), to ensure an adequate ventilation and allow a greater cooling efficiency and a reduced power consumption.

3.4 Activation

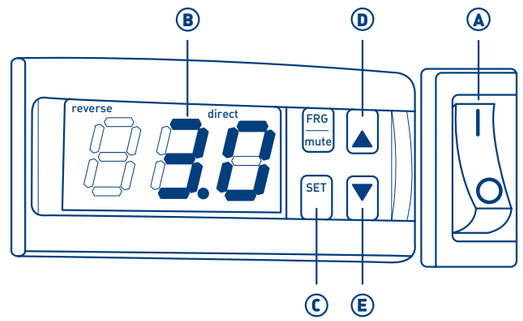
Alternate current connection - 100/240 V AC 50/60Hz:
- push the power cable socket into the appliance socket (Drawing 1);
- push the mains plug into the electric socket 100/240V AC 50/60Hz;
- switch on the cooling unit by pressing I on the main switch O/I (Drawing 3 - A).

Direct current connection 12V DC:
- push the power cable socket into the appliance socket (Drawing 2);
- connect the cooling unit to the 12 V DC power supply;
- switch on the cooling unit by pressing I on the main switch O/I (Drawing 3 - A).

The temperature regulation device is programmed in the factory at a set-point value (working point) preset according to the Koala model, with an interval between shutting down and starting up the cooling unit of –1°C and +1°C compared with the set-point value.

To change the set-point value:
- press the SET button (Drawing 3 - C) for a few seconds: the display (Drawing 3 - B) displays St1;
- release the SET button (Drawing 3 - C): the display (Drawing 3 - B) flashes showing the current set-point value;
- to increase the set-point value repeatedly press the UP button (Drawing 3 - D). Each time the button is pressed, the set-point temperature increases by 0.1°C;
- to reduce the set-point value repeatedly press the DOWN button (Drawing 3 - E). Each time the button is pressed, the set-point temperature is reduced by 0.1°C;
- press again the SET button (Drawing 3 - C): the new set-point is confirmed.

At the end of the setting the display (Drawing 3 - B) displays again the actual temperature inside the container.
Reconnecting the supply voltage after its interruption, the latest set-point temperature set remains active.



Drawing 3: Temperature regulation device

3.5 Loading instructions
- Open the container using the special locking levers.
- The purpose of Koala Biomed Line containers is not to heat or cool the products, but to guarantee that they maintain their temperature. Therefore it is vital to load the goods inside the container at the temperature required.
- It is advisable to arrange the biomedical products inside without cardboard packaging as this delays the penetration of the cold.
- To avoid the dispersion of heat, keep the container open as briefly as possible.
- Close the container using the special locking levers.

3.6 Transport instructions
- Before moving the container, make sure that the lid or the door is closed.
- The loaded container may reach a considerable weight; therefore it is always best to lift it and manoeuvre it carefully, using, where necessary, trolleys especially for this use. Various models of manoeuvring trolleys are available in the catalogue.
- Lift/transport the container only by the handles and never using the locking levers. If the container is lifted/transported using the locking levers, the lid may open and the container may fall to the ground.
- Use the appropriate handles to move the container provided with wheels or trolley.
- When moving the container, pay the utmost attention to avoiding collision with objects or people.
- When making multiple deliveries using the same container, avoid leaving it open as this will cause considerable heat dispersion.

3.7 Instructions in case of prolonged disuse
If the container is not used for a prolonged period of time, carry out the following operations:
- remove all the products from the container;
- switch off the cooling unit by pressing 0 on the main switch O/I (Drawing 3 - A). Pull out the plug connected to the electricity main (or battery) and the plug connected to the appliance. Store the cable in a safe place and protect it against damp;
- clean the container as indicated in paragraph 4.1 "Washing instructions";
- leave the lid (door) open for a few hours to prevent the formation of unpleasant smells.

3.8 Koala Cables
We recommend the use of original cables only. Different connections must be assessed and made by qualified personnel. To prevent drops in voltage and losses of power, the cable must be as short as possible and must not be sectioned; therefore, it is necessary to avoid using additional switches, plugs or junction boxes. The section of the cable must be chosen in accordance with its length.
In particular:

For connection to the 12 V DC power supply:
- 2P Cable 2 metres long, section 2.5 mm^2;
- 2P Cable - 6 metres long, section 6 mm^2.

For connection to the 100/240V AC 50/60Hz power supply:
- 3P Cable 2 metres long, section 0.75 mm^2.

In case of installation of **multiple Koala Biomed Line containers on the same vehicle, we recommend to refer to the Melform commercial offices**, in order to evaluate the correct current inputs and the sections of the power cables, to guarantee the correct operation of the system.

4. MAINTENANCE

4.1 Washing instructions
Regularly clean the container inside and out, observing the following instructions:
- Before cleaning the container, switch off the cooling unit by pressing 0 on the main switch O/I (Drawing 3 - A). Pull out the plug connected to the electricity main (or battery) and the plug connected to the appliance. Store the cable in a safe place and protect it against damp.
- Clean the container using a cloth and warm water; for the purposes of hygiene, always dry the container using disposable cloths or paper (never reusable cloths).
- Do not use metal or synthetic scouring pads, only soft brushes with natural or plastic bristles.
- Do not use abrasive powder, ammonia, acid or solvent.
- It is possible to use soap solutions.
- Do not use steam jet or pressurised appliances.
- Ensure that the water does not penetrate the power and regulation controls, vents or appliance socket.

4.2 Defrosting instructions
If the external temperature and humidity are high and the lid (door) is opened frequently, a layer of frost will gradually develop on the surface of the evaporator. This layer acts as insulation and, if it exceeds a thickness of 3 mm, may reduce cooling efficiency. This makes regular defrosting necessary, as follows:
- remove all the products from the container;
- switch off the cooling unit by pressing 0 on the main switch O/I (Drawing 3 - A). Pull out the plug connected to the electricity main (or battery) and the plug connected to the appliance. Store the cable in a safe place and protect it against damp;
- leave the lid (or door) of the container open, until the layer of frost has completely melted. Do not try to speed up the defrosting process using heaters or remove frost using knives or other sharp objects;
- dry the container using a disposable cloth or paper.

The container is now ready to be used.

4.3 Maintenance instructions
Melform-Bonetto S.r.L.- suggest regular maintenance of the container to prevent breakage, increase the life of the container and preserve its operation.
Before carrying out any maintenance operation, switch off the cooling unit by pressing 0 on the main switch O/I (Drawing 3 - A). Pull out the plug connected to the electricity main (or battery) and the plug connected to the appliance. Store the cable in a safe place and protect it against damp.
We recommend:
- maintenance of the cooling unit, carried out by qualified technicians at least once a year;
- use of original spare parts at all times.

Contact your local dealer or the Melform commercial offices for assistance or for the supply of original spare parts.

ORDINARY MAINTENANCE

PART TO CHECK	FREQUENCY	TYPE OF CHECK
Power cable and main plug	6 months	Check that they are neither damaged nor too old. Replace them if necessary.
Seal	6 months	Check the condition. Replace it if broken or worn.
Formation of frost on the surface of the evaporator	Weekly	If the layer of frost is more than 3 mm thick, defrost (following the instructions given in paragraph 4.2 "Defrosting instructions").

4.4 Solving problems
The table below lists the major faults that can be found on the refrigeration unit of the Koala Biomed Line containers, with indication of the possible causes and interventions for recovery.

Do not work on the refrigeration unit if it is covered by warranty: the warranty shall become null if the product is repaired or tampered with by unauthorised third parties.

It is recommended that you contact a qualified technician for the restoration of the capabilities of the refrigeration unit and that you contact your local distributor or the Melform commercial offices for any assistance and for the supply of genuine spare parts.

FAULT	POSSIBLE CAUSE	TYPE OF INTERVENTION
The cooling unit does not operate with a 12V DC power supply	a) The cooling unit is not connected to the 12V DC power supply	a) Connect the cooling unit to the 12V DC power supply. Check the 12V DC power cable and replace it if necessary.
	b) The 12V DC line fuse has blown	B) Install a new fuse on the 12V DC line. (the fuse is located near the 12V DC socket (Paragraph 4.6). Investigate the cause of the failure (likely short-circuit or momentary voltage overload).
	c) The battery is dead	c) Test the battery and charge it or replace it.
	d) The main switch 0/I (Drawing 3 - A) is faulty	d) Check the main switch 0/I (Drawing 3 - A) and replace it if necessary.
	e) The electric wiring is disconnected	e) Restore the wiring as shown in the wiring diagram.
The cooling unit does not operate withACpower supply 100/240V AC 50/60Hz	a) The cooling unit is not connected to the 100/240V AC 50/60Hz power supply	a) Connect the cooling unit to the 100/240V AC 50/60Hz power supply. Check the 100/240 V AC 50/60Hz power cable and replace it if necessary.
	b) The fuse of the 100/240V AC 50/60Hz line is faulty	b) Install a new fuse on the 100/240V AC 50/60Hz power line (the fuse is located on the 100/240V AC. 50/60Hz socket) (paragraph 4.6) failure (likely short-circuit or momentary voltage overload).
	c) The main switch 0/I (Drawing 3 - A) is faulty	c) Check the main switch 0/I (Drawing 3 - A) and replace it if necessary.
	d) The electric wiring is disconnected	d) Restore the wiring as shown in the wiring diagram.
The cooling unit does not maintain the set temperature	a) The ventilation is not sufficient for the cooling	a) Check that the ventilation grilles are free.

	b) The room temperature is too high	b) Let air circulate in the area where the cooling unit is located.
	c) The evaporator is covered in frost	c) Defrost as indicated in paragraph 4.2.
	d) The products are stored at an excessively high temperature	d) Cool the products before putting them in the container.
	e) The lid (or door) does not close correctly	e) Check lid (or door) closing and possibly replace the seal.
	f) The temperature regulator is not set correctly	f) Check the setting of the temperature regulator and change the set-point value if necessary (see paragraph 3.4 “Entry into service”).
	g) The cooling system has failed	g) Contact the service centre.
The temperature regulator is not turned on	a) The environment is too brigh	a) Cover the temperature regulator.
	b) The main power cable/battery is not connected	b) Insert the plugs into the right sockets.
	c) The main power cable/battery is damaged	c) Check the power cable to the grid/battery and replace it if necessary.
	d) The temperature regulator electronics have failed	d) Check the temperature regulator and replace it if necessary.
The temperature regulator flashes continuously	a) Faulty electrical contact	a) Check the correct supply of the temperature regulator.
	b) The temperature regulator is faulty	b) Check the temperature regulator and replace it if necessary.
The temperature regulator displays numbers outside of the standard numbering	a) The temperature probe is faulty	a) Check the temperature probe and replace it if necessary.
	b) The connection of the probe with the temperature regulator is not correctd)	b) Check the connection of the probe with the regulator and restore it if needed.

The temperature regulator displays flashing errors E1 or E2	a) The temperature regulator has lost its programming	a) Reprogram the temperature regulator by entering the correct parameters as indicated in paragraph 4.5 "Resolution of E1 or E2 errors on the temperature regulation device".
The temperature regulator is turned on but the compressor does not start with 12V DC power supply	a) The pickup voltage is lower than 11V	a) The battery is dead: recharge or replace it if necessary.
	b) The cable sections are not correct (inadequate extensions)	b) Check the power cables and replace them if necessary.
	c) The temperature regulator is not set correctly	c) Check the setting of the temperature regulator and change the set-point value if necessary (see paragraph 3.4 "Entry into service").
The temperature regulator is turned on but the compressor does not always start with 12V DC power supply	a) The pickup voltage is in the range 11V to 11.5V	a) The battery is almost drained: recharge or replace it if necessary.
	b) The cable sections are not correct (inadequate extensions)	b) Check the power cables and replace them if necessary.
	c) The room temperature is too high	c) Let air circulate in the area where the cooling unit is located.
The refrigeration unit drops in temperature only by a few degrees, but works regularly	a) Partial leak of gas	a) Check pressure and temperature within the refrigeration circuit (contact a cooling unit technician or the technical service to locate the leak and refill the gas).
	b) Insufficient supply voltage	b) Ensure that the power supply is suitable.
The refrigeration unit is noisy and has strong vibration	a) Noisy fans	a) Check the operating status of the fans and replace them if necessary.
	b) Motor unit not properly fixed	Check the correct mounting of the motor unit and restore it if needed.

The refrigeration unit falls over and overturns	a) Position the container on a flat surface. Open the cover of the refrigeration unit, inspect the status of the components, check the pipes and electrical connections. If you are having no special problems, wait at least 1 hour before restarting the refrigeration unit.

4.5 Resolution of E1 or E2 errors on the temperature regulation device

The errors E1 or E2 on the temperature regulator are due to the fact that the thermostats used have more than one output; in the application of the Koala Biomed line a single output (only one probe) is used. Therefore when, for some reason, a reset of the instrument is performed, it loses its programming. To remove the E1 or E2 error reporting follow the instructions below.

Error E1:

The error "E1" reported on temperature regulator indicates "Defrosting probe S2 faulty"; to delete it (taking into account that probe 2 is not physically present), you must perform the following procedure:

- turn on the refrigeration unit, and wait for the display of the error "E1". Wait for the end of the instrument switch on stage;
- press simultaneously the buttons PRG and SET (Drawing 3 - C) for about 5 seconds: the display shows the value (0);
- set the password "22" pressing the UP button (Drawing 3 - D);
- press the SET button (Drawing 3 - C) to confirm the password;
- with the buttons UP (Drawing 3 - D) and DOWN (Drawing 3 - E) display the parameter "/A2" in the ASSISTANCE function ( );
- when the parameter "/A2" is displayed, press the SET button (Drawing 3 - C);
- the display shows the value associated with the parameter (2);
- with the buttons UP (Drawing 3 - D) and DOWN (Drawing 3 - E) select the value (0);
- press the SET button (Drawing 3 - C) to confirm the value (0) set;
- press the PRG button for about 5 seconds to finish and store the changes.

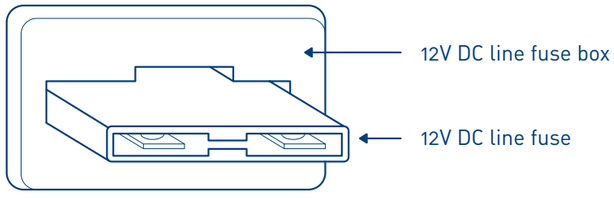
Error E2:

The error "E2" reported on temperature regulator indicates "Defrosting probe S3 faulty"; to delete it (taking into account that probe 3 is not physically present), you must perform the following procedure:

- turn on the refrigeration unit, and wait for the display of the error "E2" waiting for the end of the instrument switch on stage;
- press simultaneously the buttons PRG and SET (Drawing 3 - C) for about 5 seconds: the display shows the value (0);
- set the password "22" pressing the UP button (Drawing 3 - D);
- press the SET button (Drawing 3 - C) to confirm the password;
- with the buttons UP (Drawing 3 - D) and DOWN (Drawing 3 - E) display the parameter "/A3" in the ASSISTANCE function ( );
- when the parameter "/A3" is displayed, press the SET button (Drawing 3 - C);
- the display shows the value associated with the parameter (2);
- with the buttons UP (Drawing 3 - D) and DOWN (Drawing 3 - E) select the value (0);
- press the SET button (Drawing 3 - C) to confirm the value (0) set;
- press the PRG button for about 5 seconds to finish and store the changes.

4.6 Replacing the protective fuse

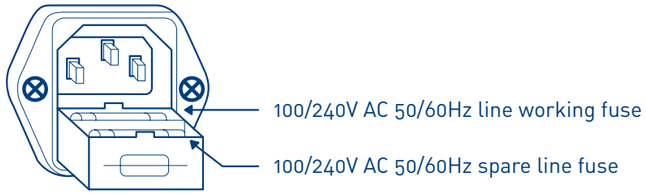
The Koala Biomed Line container is equipped with a 15 A protection fuse on the 12V DC line, located near the 12V DC socket (Drawing 2).



Drawing 4: 12V DC line fuse

To replace the fuse on the 12V DC line, proceed as follows:
- pull out the plug connected to the 12V AC power line and the plug connected to the appliance;
- open the fuse box using a tool (e.g.: the tip of a screwdriver);
- replace the fuse and insert it into the fuse holder;
- plug in the plug connected to the appliance and the socket to the 12V DC power line.

The Koala Biomed Line container is provided with a 4 A protection fuse on the 100/240V AC 50/60Hz line, located on the 100/240V AC 50/60Hz plug.



Drawing 5: 100/240V AC 50/60Hz line fuse

To replace the fuse on the 100/240V AC line, proceed as follows:
- pull out the plug connected to the AC power line and the plug connected to the appliance;
- open the fuse box using a tool (e.g.: the tip of a screwdriver);
- remove the working fuse;
- replace the fuse with a spare (replace the spare fuse too);
- close the fuse box;
- plug in the plug connected to the appliance and the plug connected to the AC power line.

5. DISPOSAL

5.1 Packing

The packing material (cardboard, polyethylene film) is 100% recyclable. The user is responsible for disposal in observance of the local regulations

5.2 Disposal of the product in EU

The product is an appliance falling within the field of application of Legislative Decree no. 151 dated July 25th 2005, implementing directives 2002/95/CE, 2002/96/CE and 2003/108/CE for the use of dangerous substances in electric and electronic appliances and their disposal. The decree states that the appliances must not be disposed of with solid urban waste.
The crossed waste bin symbol on the product or the packaging means that the appliance (cooling unit, temperature regulator) must be disposed of separately in order to optimise the rate of recovery and recycling of the component materials and prevent damage to health and the environment.
It is the responsibility of the user to dispose of the product delivering it to a designated collection point for recycling and disposal of electrical and electronic equipment.
The body of the container and the lid (or door) are made of recyclable material and can be eliminated in an eco-compatible way. The materials used to make the body and lid (or door) are:
- Polyethylene (inner and outer walls of the container and lid or door);
- Polyurethane (insulating material between the walls of the container and lid or door).

For more information on proper disposal, contact the local authority responsible for the disposal of waste.

6. REFRIGERANT GAS

The cooling gas HFC 134a used in the cooling circuit of the Koala Biomed Line container is not noxious to the ozone and fully respects Regulation (CE) no. 2037/2000.
The cooling circuit is hermetic, without the possible leakage of coolant under normal conditions of operation and use.
The compressor used is hermetic, designed for applications in motion.

7. CE DECLARATION OF CONFORMITY

DICHIARAZIONE CE DI CONFORMITÀ
CE DECLARATION OF CONFORMITY

Nome del fabbricante *Manufacturer's name*	MELFORM – BONETTO SRL
Indirizzo del fabbricante *Manufacturer's address*	ITALY – 12030 MONASTEROLO DI SAVIGLIANO (CN) – VIA SAVIGLIANO, 32
Prodotto *Product*	CONTENITORE REFRIGERATO KOALA BIOMEDICALE *REFRIGERATED CONTAINER BIOMEDICAL KOALA*
Modello *Model*	KOALA 32 / KOALA 50 / KOALA 70 / KOALA 80 / KOALA 90/ KOALA 150 / KOALA 160

Il prodotto elencato è conforme alle Direttive Europee:
The designated product is in conformity with the European Directives:

- 2006/95/CE: Direttiva del Parlamento Europeo e del Consiglio concernente il ravvicinamento delle legislazioni degli stati membri relative al materiale elettrico destinato ad essere adoperato entro taluni limiti di tensione
  [2006/95/EC Directive of the European Parliament and of the Council on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits].

- 2004/108//CE: Direttiva del Consiglio concernente il ravvicinamento delle legislazioni degli stati membri relative alla compatibilità elettromagnetica
  [2004/108/ EC: Directive of the European Parliament and of the Council on the approximation of the laws of Member States relating to electromagnetic compatibility].

Monasterolo di Savigliano (CN), 10/05/2013

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