

# MILK COOLER MC4 2.0

## OPERATION MANUAL



Read the instructions – especially the safety warnings – carefully before use.

Disregarding the safety warnings can result in serious injuries.



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# 1. SAFETY WARNINGS

## 1.1. Foreword

The purpose of this document is to provide important information regarding the installation, use and maintenance of the cooler. Before any operation, you should read carefully the information contained in this manual.

The manufacturer assumes no liability for parts or labour coverage for component failure or other damages resulting from improper usage, installation or failure to clean and/or maintain the product as set forth in these instructions.

## 1.2. General use



**WARNING:** The cooler is not designed for external (outdoor) placement or environments that expose it to atmospheric influences (rain, direct sun light).

**The manufacturer is not responsible for damages resulting from the improper use of the product.**

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or a lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. (for IEC)
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or a lack of experience and knowledge if they have been given supervision or instruction concerning safe use of the appliance and understand the hazards involved. Children must not play with the appliance. Cleaning and user maintenance must not be carried out by children without supervision. (for EU)
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- **WARNING:** Keep all ventilation openings in the appliance housing and in the internal compartment clear of obstruction.
- **WARNING:** Do not use mechanical devices or other means to accelerate the defrosting process, other than those methods recommended by the manufacturer.
- **WARNING:** Do not damage the refrigerant circuit.
- **WARNING:** Do not use electrical appliances inside the milk box of the appliance, unless they are recommended by the manufacturer.

## 1.3. Waste management of the product

This product falls under EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). This product must not be treated as household waste. Valuable raw materials may be recovered by recycling used products. By ensuring that the product is recycled correctly, you can contribute to preventing potential negative consequences for the environment and human health.

### 1.3.1. When the product is to be discarded

1. Pull the mains plug out of the socket.
2. Remove the power cable and dispose of it separately.
3. Products that are no longer in use must be disposed of in a professional and correct manner in accordance with local statutes and regulations.

### 1.3.2. Correct disposal of this product



This marking indicates that this product should not be disposed of with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

To return your used appliance, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.



**CAUTION - risk of fire due to flammable materials**

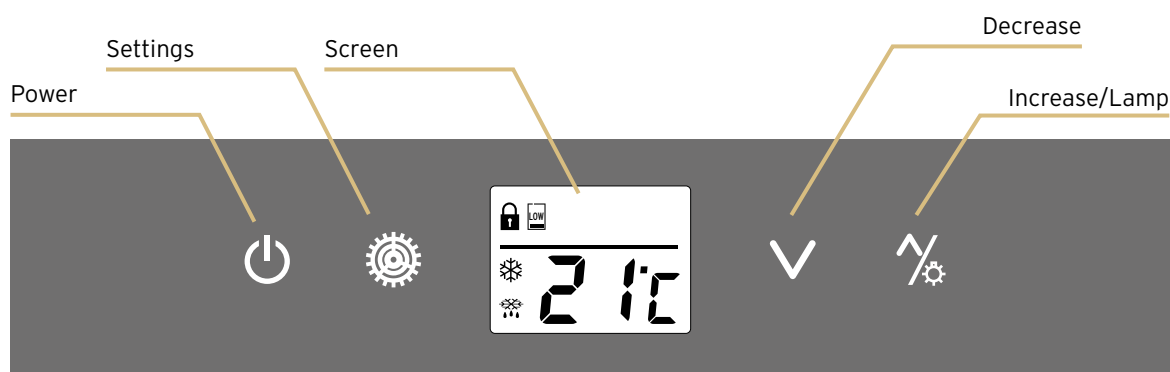
## 2. USE

### 2.1. Testing


The cooler is shipped ready for use.


The temperature control is preset from the factory.


#### 2.1.1. Operational panel



#### "Power" button

▷ In boot mode, hold down the  button for approx. 3 seconds to turn off.



▷ In shutdown mode, hold down the  button for approx. 1 second to turn on.



After shutdown, the  button gently flashes lighter and darker and the other three button lights and display go out.

#### "Settings" button

1. Briefly press once on  to set the cooler temperature.

The lower row temperature display number starts to flash, and displays the setting temperature.

2. Press  or  to adjust the temperature. Cooler temperature set range 0 to +7 °C, factory setting 3 °C.

After pressing  or  the temperature stops flashing for 2s, then continues. If you do not press any other buttons for 8s, the setting is automatically saved and setting mode ends.



We don't recommend that customers adjust the setting. Because if the setting is too cold this can cause the freezing of the products.

The best cooling performance is achieved if the unit is optimally filled and the air circulation inside the unit is unobstructed by the products inside the cooler.

#### "Decrease" button

In setting mode, used to decrease the temperature. With each press, the value is decreased by 1; after 2s long press, it continues to decrease.

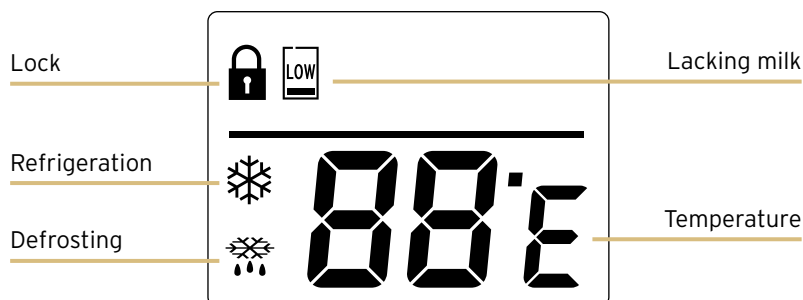


## "Increase/Lamp" button

In setting mode, used to increase the temperature. With each press, the value is increased by 1; after 2s long press, it continues to increase.

▷ In non-setting mode, press briefly to turn on or off the LED light.

### 2.1.2. LCD screen



#### Lock

When the buttons are locked, the lock symbol is lit, otherwise it is off.

#### Lacking milk

When the milk box is short of milk, the lacking milk symbol flashes, otherwise it is off.

#### Refrigeration

It is on when the compressor is working, otherwise it is off.

#### Defrosting

It is on when the appliance is defrosting, otherwise it is off.

#### Temperature display

Shows the milk temperature in the milk box.

When in setting mode it flashes and shows the setting temperature.

When in shutdown mode, there is no LCD display.


#### Malfunction display

E1: Cooler temperature sensor malfunction

E2: Milk temperature sensor malfunction


### 2.1.3. Unlock and lock

In unlock condition, buttons are locked automatically after 10 s without any operation (  lights up).

▷ In lock condition, briefly press any button to unlock (  goes out).

Meanwhile, the 4 touch buttons have a backlight, which goes out in lock condition and lights up in unlock condition.

### 2.1.4. Lacking milk alarm

In lacking milk alarm condition, the buzzer rings twice every 4s; lacking milk symbol  flashes.

The maximum alarm time is 10 min, if the state of lacking milk is not resolved within 10 min, the alarm will be stopped automatically, but the lacking milk symbol will still flash.

▷ In lacking milk alarm condition, press any button to stop the alarm; lacking milk symbol will still flash until you have replenished the milk.

## 2.2. Responsibility of the customer

▷ Ensure that the electrical outlet is connected effectively to earth (ground), suitable to provide the voltage indicated on the data plate. Make sure that the cooler is placed on a level surface.

### 3. INSTALLATION

For safe, proper operation, follow the manufacturer's instructions reported in this section.

#### 3.1. Ambient conditions

- The cooler must be placed in an adequately ventilated room. Keep away from heat sources, such as radiators or air conditioning pipes.  
Allow free air circulation to the refrigerator unit.
- The ambient temperature must not be higher than 40 °C.
- This appliance climate class is 3, 4, 5.

Test room climate class	Dry-bulb temperature °C	Relative humidity %	Dew point °C	Water weight in dry air g/kg
0	20	50	9.3	7.3
1	16	80	12.6	9.1
2	22	65	15.2	10.8
3	25	60	16.7	12.0
4	30	55	20.0	14.8
5	40	40	23.9	18.8
6	27	70	21.0	15.8
7	35	75	30.0	27.3

##### 3.1.1. Cooler levelling

- To provide the best performance the cooler must remain level.

#### 3.2. Electrical connection



##### **WARNING - DO NOT USE EXTENSION CORDS**

The cooler works on single-phase voltage (220-240V/50-60Hz) power supply.

▷ To switch on the cooler, insert the plug into the outlet.

##### **Ensure that:**

- The electrical outlet must be provided with an efficient ground, the voltage and the frequency of the electrical line must match those indicated on the data plate. If unsure about the efficiency of the ground, have your electrical circuit checked by a qualified technician.
- When the cooler is operating, check that the supply voltage is not dropping or increasing more than 10% below/above the rated voltage (187-242 V).
- If the light is damaged, it must be replaced with one the same size, power and shape and must be replaced by the manufacturer or its service agent.
- **The manufacturer is not responsible for damages or accidents arising from the misuse or disregard of electrical laws relevant to the country where the cooler is used.**

### 4. MAINTENANCE

- Before cleaning the cooler always remember to unplug it.
- Unplug the cooler at the electrical outlet; never pull the cord - grasp the plug instead.
- Do not use abrasive or scratching objects for cleaning.

- Clean the inside cabinet of the cooler with a clean damp cloth or with a neutral cleaning agent. Avoid damage by never using abrasive or corrosive cleaning products.
- Clean the condenser at least once a month with a vacuum cleaner or a brush to eliminate the dust accumulation.
- Do not wash the cooler with direct or high pressure water jets.
- **When the relative humidity is more than 55%, there will be condensation on the door glass, it's normal and unavoidable.**

## 5. TROUBLESHOOTING

Often problems that occur during normal operation can be resolved without the assistance of a specialised technician, verify the following:

a) The appliance does not operate.

- Check that the plug is correctly inserted in the electrical outlet.
- Verify that there is voltage at the electrical outlet.

b) The product is too warm.

- Check the setting of the thermostat (see section "Testing").
- Check the closing of the door, and ensure that the door gasket seals.
- Check that the interior fan is operating, and not blocked.
- Check and clean the condenser.

c) The appliance is excessively noisy.

- Verify the appliance is level.
- Ensure that the appliance is not touching other equipment that could cause vibration.

Prepare to answer the following questions from the service agent:

- The type of problem (electrical, mechanical).
- The model, code and serial number of the cooler can be found on the manufacturer label attached to the interior wall of the cooler.

## 6. TECHNICAL DATA

### 6.1. Materials and refrigerants

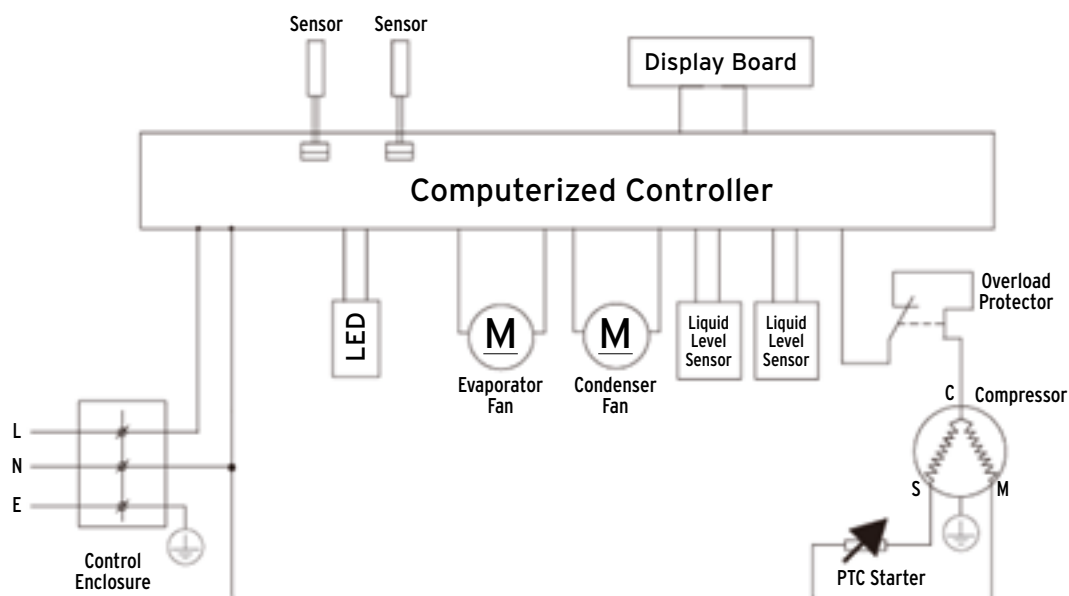
- Interior or exterior surfaces that come into contact with the products are made of galvanised steel, aluminium or non-toxic plastic materials.
- The refrigerant used is approved by government regulations.

### 6.2. Appliance data

Model number	MC8DBS
Dimensions (W*D*H)	240*450*365 mm
Weight	12.7 kg
Milk box capacity	4 litres
Power supply	220-240V ~ 50/60 Hz 0.5 A
Power consumption	max. 1.0 kWh
Lamp power	0.5 W
Protection class	I
Sound pressure level	$\geq 36\text{dB(A)}$ re 1 pW and $< 42\text{dB(A)}$ re 1 pW (Class C)
Ambient temperature	5-40 °C
Refrigerant/amount	R600a / 10.5 g
Insulation blowing agent	cyclopentane
Climate class	3, 4, 5



## 7. CIRCUIT DIAGRAM





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