# User manual **JAMAJKA W OPEN**

## 1. UNLOADING

The unit should be transported in an upright position, properly secured and packed. The manufacturer sends the unit on a special wooden pallet, protected by cardboard angles and foil.

## 2. PROPERTIES OF THE DEVICE

### 2.1. Purpose

"Jamaica W Open" was made without the front glass, which allows self-service sales. The cabinet is a universal cooling unit intended for exhibition and short-term storage of confectionery: cakes, pies, cookies, desserts, etc. at +8°C/+15°C at ambient temperature of +15°C/+25°C and relative air humidity of max. 60%.

### 2.2. Description of the device

"Jamaica W Open" is also fitted with an internal chiller controlled by an electronic thermostat, optionally working with the temperature recording module, which allows for recording and signaling whenever the temperature in the unit is too high or too low. Cooling is done by forced air circulation. The cabinet is equipped with automatic condensate evaporation and automatic defrosting. It is suitable for connecting in rows and can be supplied with an external chiller unit ("-mod C"). The display section of the cabinet consists of glass or metal shelves suspended on a frame. The shelves have the ability to change their height and angle. "IGLOO" devices are made using modern technology and have the certificates required by law.

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This sign signifies information of particular meaning for user security and for proper device exploitation.

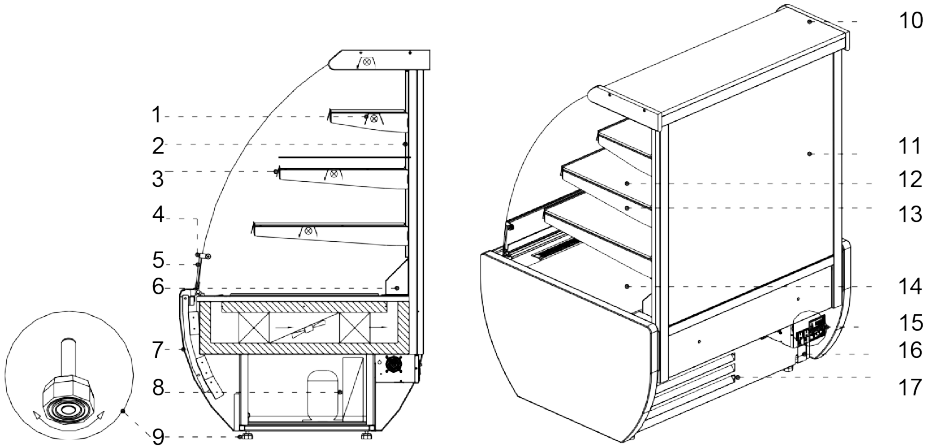



Fig.1 Layout of unit "Jamaica W OPEN"

1 – Internal lighting
2 – Internal back (perforated – **DO NOT BLOCK THE VENTS to ensure chilled air circulation!)**
3 – Shelf price strip
4 – Front glass grip
5 – Low front glass
6 – Airflow channel
7 – Wooden housing
8 – Chiller unit
9 – Feet for leveling the unit
10 – Top shelf (roof) – wooden or stainless steel
11 – Rear of the unit (outer back)
12 – Display shelf (glass or stainless steel)
13 – Internal frame
14 – Internal countertop
15 – Control panel (thermostat, switches)
16 – Nameplate
17 – Windchest (After removing, access to the condenser fins is available. **DO NOT OBSTRUCT THE VENTS!!!**

## 2.3. Technical data

**Table 1 Technical data**

| Type of unit | Rated voltage [V/Hz] | Rated current [A] | Rated lighting power [W] | Power consumption [kWh/24h] | Shelf load [kg/m] | Cooling power demand [W/mb] | Unit weight [kg] |
|---|---|---|---|---|---|---|---|
| 1.3W Open* | 230/50 | 4.7 | 144 | 16.2 | 10 | - | 190 |
| 1.3W Open-mod/A * | 230/50 | 4.7 | 144 | 16.2 | 10 | - | 180 |
| 1.3W Open-mod/C * | 230/50 | - | 144 | - | 10 | 700 | 170 |
| 0.9W Open * | 230/50 | 3 | 72 | 10.1 | 10 | - | 140 |
| 0.9W Open-mod/A * | 230/50 | 3 | 72 | 10.1 | 10 | - | 130 |
| 0.9W Open-mod/C * | 230/50 | - | 72 | - | 10 | 700 | 120 |
| 0.6W Open* | 230/50 | 2.2 | 60 | 7.7 | 10 | - | 90 |
| 0.6W Open-mod/A * | 230/50 | 2.2 | 60 | 7.7 | 10 | - | 80 |
| 0.6W Open-mod/C * | 230/50 | - | 60 | - | 10 | 700 | 70 |

* Jamaica W Open" also has a wooden (RETRO/TREND) or stainless steel housing.

# 3. PREPARING THE UNIT FOR OPERATION

## 3.1. Requirements for the installation site

- Check whether the cross-section of power cables is suitable for the current consumption of the installed equipment
- It is forbidden to connect the device via extension cables or distributors
- The unit must be connected to a separate, properly prepared electrical circuit with a socket with protective pin (as per PBUE)

The unit may only be started after confirming the effectiveness of shock protection with the results of measurements carried out in accordance with applicable regulations!

## 3.2. Connection and start-up

- Unpack the unit and remove the wooden pallet
- Place the unit on a level and sufficiently solid surface, and then level it with the feet Fig.1/9 (p.3)
- Remove protective film from the cabinet components
- **First cleaning of the unit** should be done after unpacking the unit and prior to start-up. The device should be cleaned with water at a temperature not exceeding 40°C with added natural cleaning agents. **Cleaning and washing of the device must not be done using agents containing chlorine and different varieties of sodium, as they damage the protective layer and the unit's components!** Any residual adhesive or silicon on metal components may only be removed with petroleum ether (does not apply to plastics components!). Do not use other organic solvents.

**Do not use water jets while washing the unit. The unit should be cleaned with a damp cloth.**

- If the unit goes to the user partially disassembled for safety in transport, proceed as follows:

1. Install the hooks with the lamp in the frame
2. Fig.2/3 (p.5)
3. Place glass shelves on the frame and the internal countertop Fig.4/5,6 p.6) . Place glass components on silicon parts (bumpons) Fig.4/8 (p.6).

Once the unit has been installed at its destination, leave it at rest for at least 2 hours before switching on (for equipment with internal generator unit), so that the oil level settles to prevent problems with starting the chiller!
**WARNING: Protect the cooling circuit against damage!**

- Place the plug of the connection cable directly into the socket (it is forbidden to connect the device via extension cables or distributors!)
- Switch on the main switch Fig.5/1 (p.7), which will turn on the thermostat, and then the generator unit
- In the thermostat panel Fig.5/3(p.7) set temperature a (detailed operation at p.14 or 15)
- Press the lighting switch Fig.5/2 (p.7)

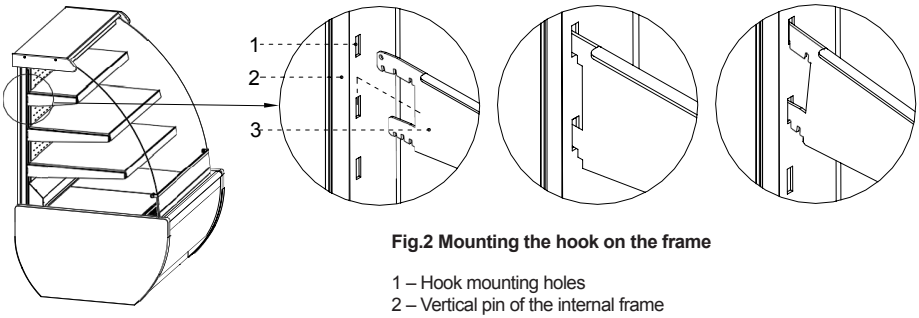



**Fig.2 Mounting the hook on the frame**

1 – Hook mounting holes
2 – Vertical pin of the internal frame
3– Hook (fitted for three-step adjustment of the suspension angle)

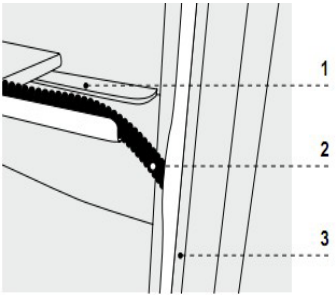



**Fig.3 Adjusting the height of hooks**
1 – Hook
2 – The conduit tube shielding the lamp cord
3 – PVC profile masking the frame's vertical bar

To change the height of the hook, slightly tilt the PVC profile and drag the conduit tube to the appropriate position. Then pull the hook from the frame and place it in the appropriate position and angle.

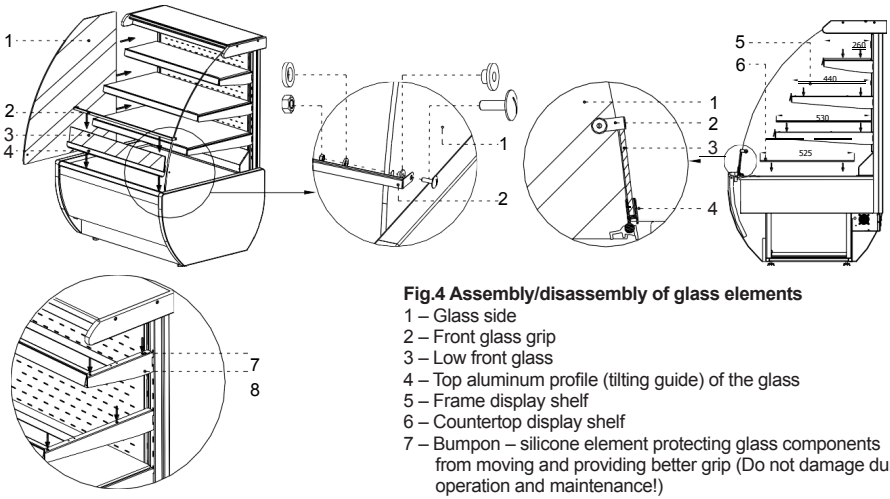



**Fig.4 Assembly/disassembly of glass elements**
1 – Glass side
2 – Front glass grip
3 – Low front glass
4 – Top aluminum profile (tilting guide) of the glass
5 – Frame display shelf
6 – Countertop display shelf
7 – Bumpon – silicone element protecting glass components from moving and providing better grip (Do not damage during operation and maintenance!)
8 – Frame hook

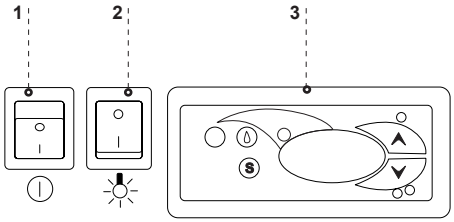



**Fig.6 Control panel**
1 – Main switch (turns on/off the aggregate of the device)
2 – Lighting switch
3 – Thermostat (temperature regulator) panel (service details – Chapter No. 7, p. 21 and 22)

# 4. OPERATION

The cooling temperature and the work cycle of the unit may fluctuate. They depend on a number of factors, e.g. the amount and temperature of the products inside, and the ambient temperature.
Place the unit in a dry, well-ventilated place without direct sunlight, ensuring good air exchange (distance between the wall and the device min. 10 cm), away from heat sources and devices forcing the airflow (portable and ceiling fans, blow heaters). The unit is functioning properly in an environment where the temperature is in the appropriate climate class, as indicated on the nameplate. Operation of the device may deteriorate if the temperature was above or below the indicated range for a long period.

## NOTES AND TIPS

- Properly level the unit to prevent noisy operation and ensure proper (condensate) drainage during de-frosting
- After transporting the unit, wait about 2 hours before restarting it
- When first filling the cooling space, do so after it has cooled down to operating temperature. This principle should also be observed after a long downtime
- Do not block any vents, as could hinder the circulation of cooled air. You should also provide proper airflow around the unit (in any case, do not cover the vents)t
- Ensure a uniform load on the shelves without exceeding their maximum load
- Keeping the condenser clean. Impurities may cause overheating of the compressor and ultimately lead to failure, which is not covered by the warranty.
- Do not use electrical appliances inside the chamber for storing food products

### 4.1. Temperature control

For operation of thermostats (temperature controllers) “Igloo” and “Carel”, see section 7 (p.14 and 15).

The main task of the thermostat is to control the refrigerating unit, so as to reach the preset temperature within the unit and keep it within certain ranges. All temperature control settings necessary for normal functioning of the unit are introduced by the manufacturer. Before using the device, the user should check and set the desired temperature on the panel inside the device.

Digital display – displays the current temperature inside the device

Any interference in the factory settings of the thermostat voids the warranty!

# 5. MAINTENANCE

### 5.1. Cleaning and maintenance

All maintenance services need to be performed after disconnecting the device from power supply!

Protect the electrical installation against damage or flooding

Do not use water jets while washing the unit. The unit should be cleaned with a damp cloth.

Do not use any sharp objects to remove filth!

Devices equipped with wheels cannot be used on uneven surfaces!

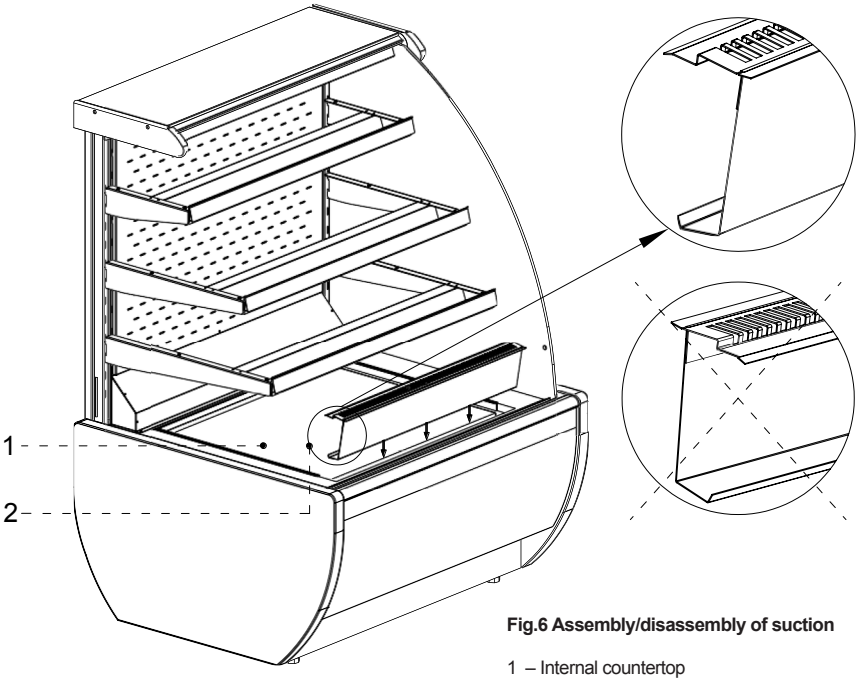



**Fig.6 Assembly/disassembly of suction**

1 – Internal countertop
2 – Suction **(DO NOT BLOCK the vents!!!)**

Do not use mechanical means in order to fasten the defrosting process!

**Once a month** it is recommended to stop the operation of the device to clean the interior, provide natural defrosting of the evaporator and to clean the condenser.

**The unit's evaporator** should be kept clean. Impurities impede heat transfer, resulting e.g. in increased electricity consumption and could cause damage to the compressor unit.

To clean the condenser, unscrew the fixing screws and remove the windscreen. Clean the condenser fins with a soft brush. For strong soiling (clogging the fins) of the condenser, it is advisable to use a vacuum or compressed nitrogen to suck out/blow out the soil from between the fins.

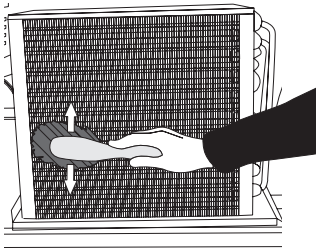


**Fig.10 Condenser cleaning**

The manufacturer is not liable for damage to the condensing unit resulting from non-observance of the condenser's cleanliness!

**Parts of the unit may corrode if used or maintained incorrectly.** Follow the rules:

- Do not let surfaces of the unit to come into contact with agents containing chlorine and sodium varieties that damage the protective layer and the unit's components (including various grades of stainless steel)

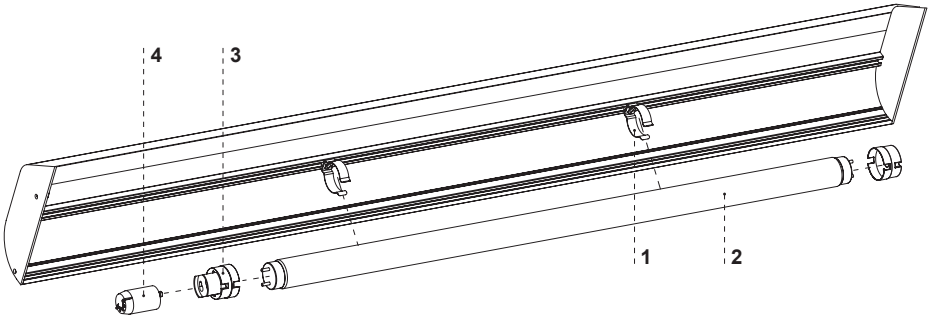



**Fig.8 Replacing the fluorescent lamp**
1 – Lamp grip
2 – Lamp
3 – Light housing
4 – Fluorescent igniter

**During maintenance work, be careful not to damage the nameplate Fig.9 (p.13), which contains important information for maintenance workers and waste disposal companies.**

# 6. SERVICE
## 6.1. Fault identification and repair

In case of any difficulties during actuation of the device or during its exploitation, please return to these chapters in this manual, which explain the performed operation. This aims to ensure that the device is properly operated. If you still experience difficulties, the following hints will help you solve the problem:

**The device is not working... – Make sure that:**
- The device is connected to the supply network
- Voltage and frequency in the network are compliant with those recommended by the producer, 230V/50Hz
- The main switch is turned on
- Thermostat is turned on (This concerns the Igloo thermostat – If only two spots are visible on the display – turn on the thermostat)

**The device is operating, but the lighting is off...– Make sure that:**
- Lighting switch is turned on
- Fluorescent lamp or starting switch of the device is not burnt

**The device does not reach the proper temperature, the lighting is on...– Make sure that:**
- The main switch is on
- Temperature setting on the thermostat is properly set
- Thermostat works properly
- The condenser is clean, if necessary – clean the condenser
- Ambient temperature does not exceed 25ºC
- Enough time has passed for products to be cooled
- Ventilation holes of the device are not blocked

**(This concerns the "IGLOO" thermostat) thermostat displays C0 or C1 or C2 instead of displaying temperature: This situation shall occur, when one of temperature regulation sensors has been destroyed. The following messages may be displayed in such case:**
- C0 – temperature sensors inside the chamber are damaged – call authorized service
- C1 – failure of evaporator sensor - call authorized service
- C2 – failure of condenser alarm sensors (or failure of second evaporator sensor) – call authorized service

**(This concerns the "CAREL" thermostat) Thermostat displays E0 or E1 or L0 or HI or EE or Ed or DF instead of temperature:**

- E0 – failure of temperature sensor inside the chamber – call authorized service
- E1 – failure of evaporator sensor – call authorized service
- L0 – low temperature alarm (lower than temperature range set within the device – call authorized service
- HI – high temperature alarm – call authorized service
- EE – internal defect of the regulator – call authorized service
- Ed – max. defrosting time exceeded – call authorized service
- DF – defrosting in progress (this is not an alarm signal) – call authorized service

**(This concerns the "IGLOO" thermostat) The device is working, sound signalling is activated...– Make sure that:**

- The condenser is clean, if necessary – clean the condenser
- Condenser ventilator is working properly
- Ambient temperature does not exceed 25ºC

**The device is working too loud...– Make sure that:**

- The device is standing stably
- Furniture adjoining the device do not vibrate when the cooling aggregate compressor is working

Sounds made by equipment at work are normal. The equipment includes fans, motors and compressors, which turn on and off automatically. **Every compressor produces a noise while at work. These sounds are generated by the motor unit and by the refrigerant flowing in the circuit. This phenomenon is a technical characteristic of refrigeration units and does not mean malfunction.**

In the case of exceeding the ambient conditions as per third-class climate (relative humidity above 60%), the phenomenon of water transfer from the system with automatic condensate evaporation (evaporator) may be observed. **This case does not mean malfunction and does not require a service call.**

Deposition of condensation on the unit's windows at high relative humidity above 60% is a natural phenomenon and does not require a service call!

## 6.2. Service

IGLOO service telephone number: +48 (14) 662 19 56 or +48 605 606 071 e-mail: serwis@igloo.pl
If after checking points described in chapter 6.1 "Fault identification and repair" the device still does not work properly, please contact Technical Service of the Igloo company, stating the data from the data plate Fig.12 (p. 20):


**Fig.12 Data plate**

- Serial number (NS)
- Production date
- Type (name of the device)

and

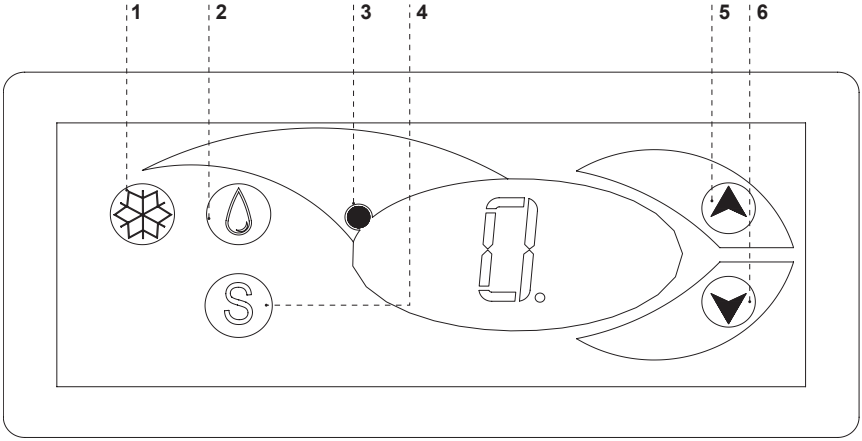
- Date when the device was purchased
- Description of the problem
- Your exact address and telephone number (with the code number)

The above figure shows a demonstrative data plate and the data stated on the plate are exemplary data, which are not related with "Jamajka W OPEN" devices!

# 7. THERMOSTAT SERVICE

## 7.1. „IGLOO" thermostat

**Fig.13 „Igloo" thermostat control panel**




1 – Cooling on/off switch
2 – Manual defrosting switch
3 – Aggregate and defrosting operating control diode
4 – Temperature monitoring switch on defrosting sensor
5 – Temperature regulation switch (increase)
6 – Temperature regulation switch (decrease)

Verification of adjusted temperature (inside the device) – By pressing "▲" or "▼" switch once we can verify the adjusted temperature. The adjusted temperature shall be shown on the display with a visible red blinking spot (diode). The preview shall finish automatically after about 3 seconds.

Lowering (or increasing) the temperature – press "▼" (or "▲") switch and the adjusted temperature shall be visible on control panel. By pressing the "▼" switch we decrease the temperature to the desired value. The preview shall finish automatically after about 3 seconds.

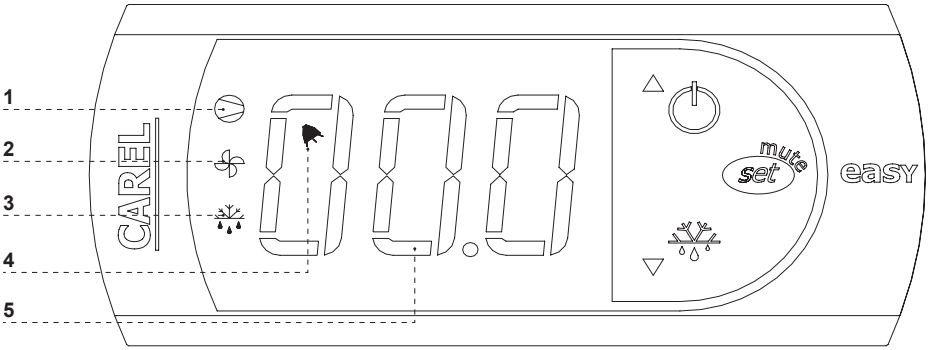
Manual defrosting – switch No. 2 enables to initiate the defrosting cycle at any moment when the device is working (regardless of the automatic defrosting function); the switch shall not operate when the temperature is higher than the final defrosting temperature.

The user should switch on/ switch off the aggregate only by means of the main switch of the device, and not by means of the direct switch on thermostat control panel. Switching on the main switch shall automatically initiate the thermostat!

* Read more on www.igloo.pl

### 7.2. „CAREL" thermostat

**Fig.14 „Carel" thermostat control panel**




**WHAT DO DIODES ON CONTROL PANEL SIGNIFY**

**Diode 1 is on - Compressor:** the symbol is visible when the compressor is working. It is blinking when compressor actuation is delayed by security procedure. It blinks in the following cycle: two blinks – pause, when the constant working mode is activated.
**Diode 2 is on - Ventilator:** the symbol is visible when evaporator ventilators are turned on. It blinks when the actuation of the ventilators is delayed by external disengagement or when another procedure is in progress.
**Diode 3 is on - Defrosting:** the symbol is visible when the defrosting function is activated. It blinks when the actuation is delayed by external disengagement or when another procedure is in progress.
**Diode 4 is on - Alarm:** the symbol is visible when the alarm is activated.
**5** – current temperature inside the device is displayed (decimal places displayed after the comma)

**SETTING THE DESIRED TEMPERATURE**

- press for 1 second mute set leading value shall be displayed on the screen;
- increase or decrease the leading value by means of ▼ and ▲ , switches, until the desired value shall be obtained;
- press mute set once again in order to confirm the new value of the setting point;

**MANUAL INPUT OF THE DEFROSTING CYCLE**

Defrosting shall be realised in an automatic mode. It is possible to force defrosting at any moment by pressing and holding the ▼ switch for minimum 5 seconds. Diode No. 1 shall blink during manual defrosting.

* Read more on www.alfaco.pl

NOTE: IN CASE OF NOT OBSERVING THE PRINCIPLES ON CONNECTING AND USING THE DEVICE INCLUDED IN THIS MANUAL, THE PRODUCER SHALL RESERVE THE RIGHT TO RECEDE FROM OBLIGATIONS OF THE GUARANTOR!!!