

USER MANUAL

FOR COOLING DISPLAY CABINETS:

„JAMAJKA W”

„MARTA W”





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

Contents

1. UNLOADING	3
2. PROPERTIES OF THE DEVICE	3
2.1. Purpose.....	3
2.2. Description of the device	3
2.3. Technical data.....	5
3. PREPARING THE DEVICE FOR EXPLOITATION.....	5
3.1. Requirements concerning the place of installation	5
3.2. Connection and actuation	6
4. EXPLOITATION	9
4.1. Temperature regulation	10
4.2. Humidity regulation	10
5. MAINTENANCE	11
5.1. Cleaning and maintenance	11
6. SERVICE.....	14
6.1. Fault identification and repair	14
6.2. Service	16
7. THERMOSTAT SERVICE	17
7.1. "IGLOO" thermostat	17
7.2. "CAREL" thermostat	18

List of figures

Fig.1 Construction of "Jamajka" device	4
Fig.2 Construction of "Marta" device	4
Fig.3 Fixing the hook in the frame	7
Fig.4 Hook height regulation	7
Fig.5 Assembly of glass elements	8
Fig.6 Control panel.....	8
Fig.7 Hygrostat	11
Fig.8 Disassembly of the front glass.....	11
Fig.9 Manner of assembling/pulling out of the blow-in and suction	12
Fig.10 Condenser cleaning	13
Fig.11 Changing the fluorescent lamp	14
Fig.12 Data plate.....	17
Fig.13 "Igloo" thermostat control panel	18
Fig.14 "Carel" thermostat control panel	19

List of tables

Table 1 Technical data	5
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1. UNLOADING

The device should be transported in vertical position, and it should be properly secured and packed. The manufacturer ships the device on a special wooden platform, secured with cardboard angle sections and foil.

2. PROPERTIES OF THE DEVICE

2.1. Purpose

"Jamajka W" and "Marta W" display cabinets are universal cooling devices aimed to display and short-term storage of confectionery goods: cakes, cookies, desserts, etc. in temperature between +5°C and +15°C with ambient temperature between +15°C and +25°C and relative air humidity not exceeding 65%.

2.2. Description of the device

"Jamajka W" and "Marta W" have dynamic cooling. All types of devices are equipped with automatic condensate evaporation and automatic defrosting. They are also furnished with electronic thermostat optionally cooperating with temperature recording module enabling to record and signal too low and too high temperature within the device. They are adjusted to be connected in sequences and may be supplied with internal and external aggregate ("-mod C"). Within the range of temperatures between +10°C/+15°C it is possible to control air humidity within display cabinets, between 30 and 70%. Glass shelves fixed on the frame make the exhibit part of display cabinets. In case of "Jamajka" it can be possible to change the height and angle of the shelves. Our devices are made according to modern technologies and have all certificates required by law.

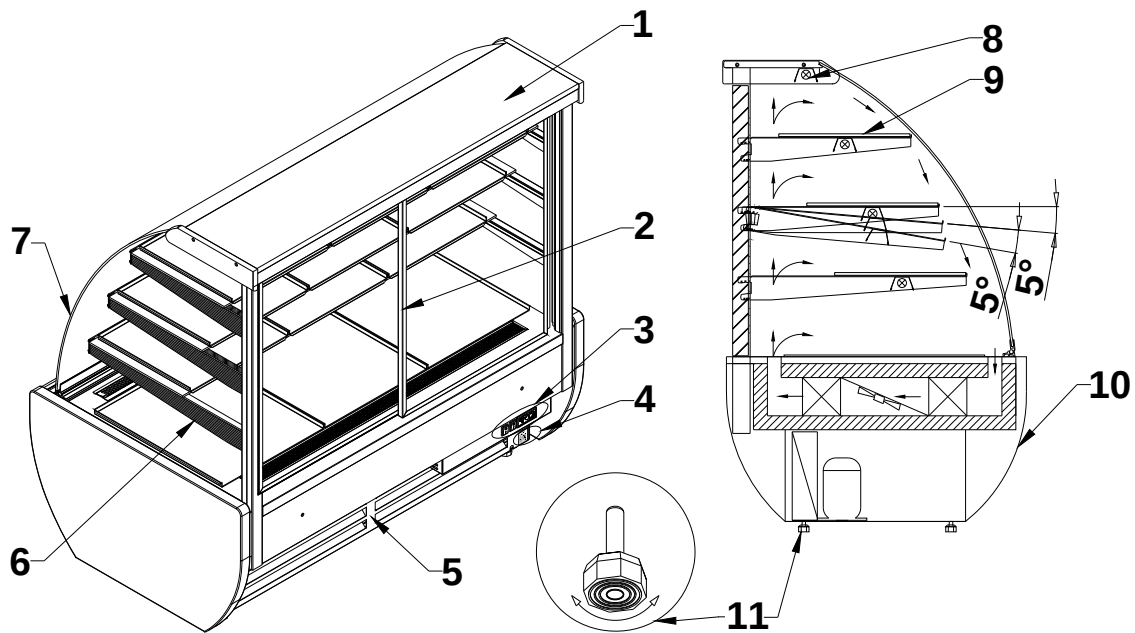


Fig.1 Construction of "Jamajka" device

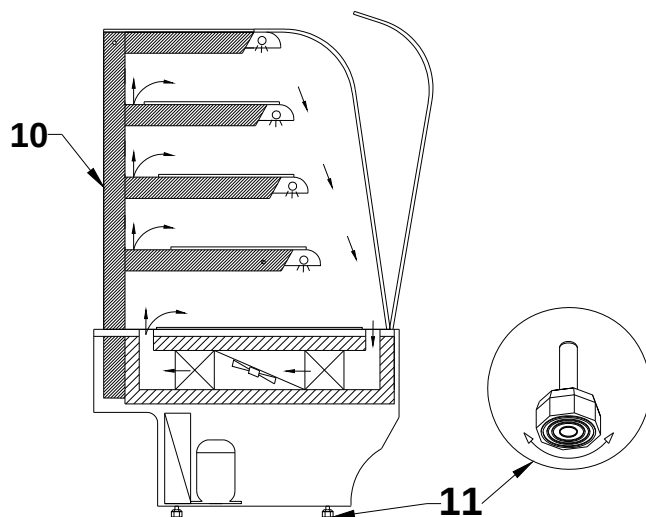


Fig.2 Construction of "Marta" device

- 1 – Upper shelf (little roof) – wooden or made of stainless steel, depending on finishing option (*only in Jamajka*)
- 2 – Sliding doors (for display cabinets 1.3 and 0.9) or lifted doors (0.6)
- 3 – Control panel (thermostat, switches)
- 4 – Data plate
- 5 – Wind brace (DO NOT BLOCK ventilation holes!!!)
- 6 – Inner frame (made of metal plates)
- 7 – Bended front glass, lifted
- 8 – Inner lighting
- 9 – Display glass shelf
- 10 – Inner frame (made of aluminium profile)
- 11 – Feet – used to level the device

2.3. Technical data

Table 1 Technical data

Type of device	Rated voltage [V/Hz]	Rated current [A]	Rated lighting power [W]	Electric energy consumption [kWh/24h]	Shelf load [kg/mb]	Cooling power requirement [W/mb]	Weight of the device [kg]
JAMAJKA W							
1.3W *	230/50	4.6	144	15.2	10	-	200
1.3W-mod/A *	230/50	4.6	144	15.2	10	-	174
1.3W-mod/C *	230/50	1.2	144	4.2	10	600	154
0.9W *	230/50	2.9	72	9.7	10	-	150
0.9W-mod/A *	230/50	2.9	72	9.7	10	-	129
0.9W-mod/C *	230/50	0.8	72	2.8	10	600	114
0.6W *	230/50	2.1	45	7.0	10	-	100
0.6W-mod/A *	230/50	2.1	45	7.0	10	-	74
0.6W-mod/C *	230/50	0.4		1.7	10	600	64
MARTA W							
1.3W	230/50	4.6	144	15.2	10	-	250
1.3W-mod/A	230/50	4.6	144	15.2	10	-	224
1.3W-mod/C	230/50	1.2	144	4.2	10	600	204

Depending on the version of the device “Jamajka W” apparatuses have wooden (*) or stainless casing. There are also “RETRO” and “TREND” versions of wooden casings.

3. PREPARING THE DEVICE FOR EXPLOITATION

3.1. Requirements concerning the place of installation

- Verify whether the cross section of feeding conduits is proper for power consumption of the installed device.
- It is forbidden to connect the device by extension rods or dividers.
- The device should be connected to the separate, properly made electric circuit with plug-in socket with protecting pin (according to PBUE /Regulations concerning Electric Equipment Construction/)



The device may be actuated solely after confirmation of the fire protection efficiency with results of measures performed according to binding regulations!

3.2. Connection and actuation

- Unpack the device and remove wooden platform
- The device should be on an even and on a sufficiently hard base, and then level it with the help of feet [Fig.1/ 11 \(p. 4\)](#)
- Remove the protecting foil from display cabinet elements
- Clean the whole device with water, of temperature not exceeding 40°C with addition of washing liquid. **Do not use surface scratching agents, caustic agents or agents containing chlorine and/or soda!**



Do not use water stream to clean the device, only a wet cloth

- If the user shall obtain a device partially disassembled to secure it during transportation, perform the following operations:
 1. *(This concerns only "Jamajki" device)* Fix hooks with fluorescent lamp in the frame [Fig.3 \(p. 7\)](#)
 2. Fix glass shelves on the frame and on inner top [Fig.5/2 \(p. 8\)](#)
 3. Place trays (for cakes) on glass shelves



After installing the device in the final location it should be left to rest for at least 2 hours before the actuation, to allow the cooling agent level to settle, which will prevent from problems with actuating the cooling aggregate!

WARNING: Protect the cooling circuit against damage!

- Place the plug of the connecting cable directly in plug-in socket (it is forbidden to connect the device by means of extension cords or dividers!)
- Switch on the main switch [Fig.6/ 1 \(p. 8\)](#), which activates the thermostat, and then aggregate of the device
- Set the temperature on thermostat control panel [Fig.6/3 \(p. 8\)](#) (service details on [p. 18 or 19](#))
- Switch on the lighting switch [Fig.6/2 \(p. 8\)](#)
- In case of display cabinets equipped with hygostat (it does not concern Carel thermostat) it is possible to set the desired humidity inside the device by means of knob [Fig.7 \(p.](#)

11). Within the range of temperature between 10°C and 15°C it is possible to control air humidity between 30 and 80%.

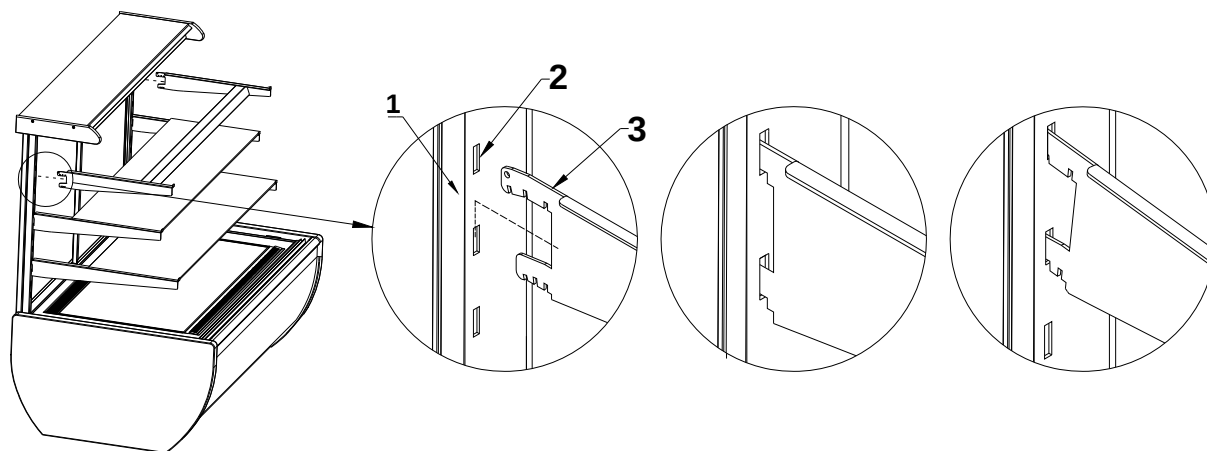


Fig.3 Fixing the hook in the frame

- 1 – Vertical post of the internal frame
- 2 – Hook mounting holes
- 3 – Hook (adjusted to three-stage regulation of mounting angle)

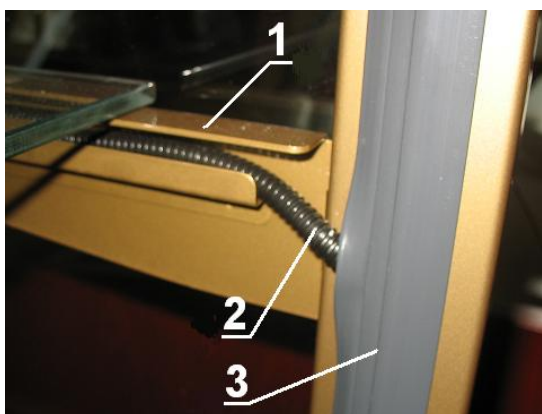


Fig.4 Hook height regulation

- 1 – Hook
- 2 – Protective pipe covering lamp cord
- 3 – PVC profile hiding the vertical frame post

When changing the height of the hook it is necessary to slightly tilt the PVC profile and pull the protective pipe into proper position. Then the hook should be pulled out of the frame and place it in proper position and under proper angle.

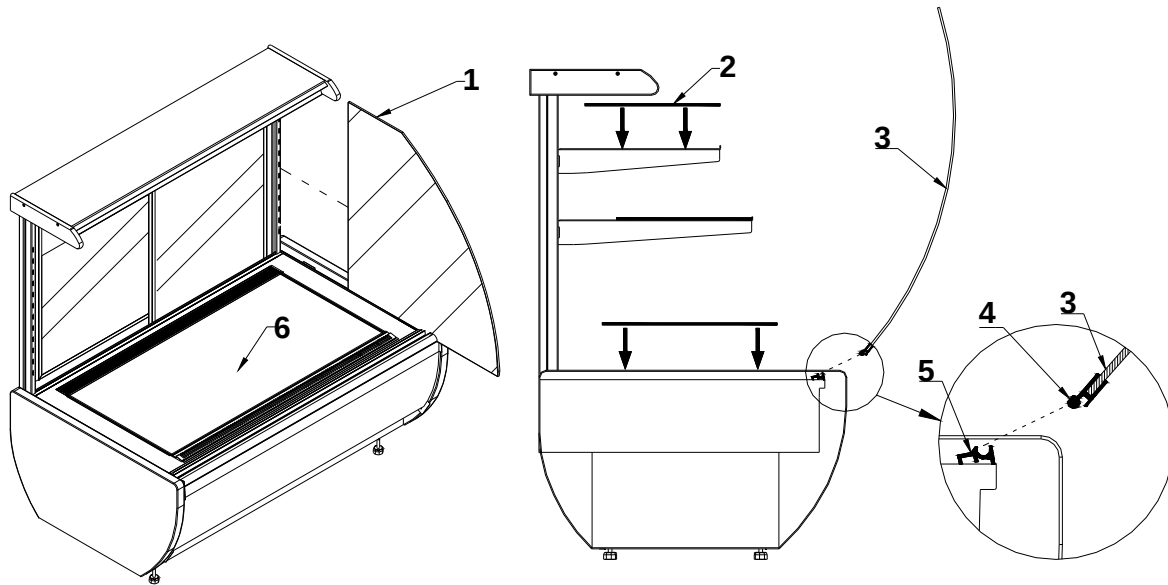


Fig.5 Assembly of glass elements

- 1 – Glass side
- 2 – Glass shelf
- 3 – Lifted front glass
- 4 – Upper aluminium profile (lifted guide) of the glass
- 5 – Lower aluminium profile (hinge) of the glass
- 6 – Inner top

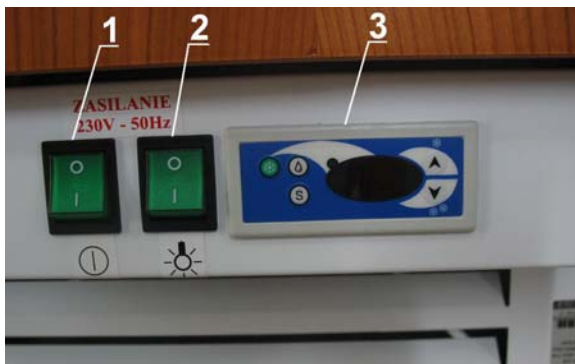


Fig.6 Control panel

- 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. 18 and 19](#))

4. EXPLOITATION

Temperature of the cooled space and aggregate operating cycle may fluctuate. They depend on numerous factors, such as amount and temperature of products placed in the device and temperature of the surroundings.

The device should be placed in a dry and well-ventilated place, ensuring proper air exchange (distance between the wall and the device – min. 10 cm), out of sunlight, kept far from heat sources and devices enforcing air flow (ceiling and portable ventilators, blow-in heaters). The device functions properly in a room, where temperature falls within appropriate climatic class stated on the data plate. The operation of the device may worsen when it shall operate in temperature lower or higher than the stated temperature range.



Remarks and indications

- **The display cabinet has to be properly levelled, which will prevent noisy working of the device and shall ensure proper water (condensate) outflow during defrosting.**
- **After transporting the device, wait about 2 hours before its actuation.**
- **The first filling of cooling space should be performed after its previous cooling to working temperature. This principle should also be observed after longer break in exploitation.**
- **Do not block any ventilation holes, which would hamper circulation of the cooled air. It is also necessary to ensure proper airflow around the device (aggregate ventilation holes cannot be covered).**
- **Ensure equal load on the shelves, do not exceed the maximum load.**
- **Keep the condenser clean. Impurities may lead to overheating of the compressor and as a consequence may result in damage of the device, which is not covered by warranty.**
- **Do not use electric devices inside product storing chamber.**
- **Avoid unnecessary opening of doors and leaving them open for a longer period of time.**

4.1. Temperature regulation



Service of "Igloo" and "Carel" thermostat (temperature regulators) is described in chapter 7 (p. 18 and 19)

The basic aim of a thermostat is to control the cooling aggregate to obtain the set temperature within the device and maintain it within the determined temperature ranges. The producer enters all settlements of the temperature regulators required for normal functioning of the device. Before primary actuation the user should control and possibly set the required temperature inside the device on the control panel

Digital display – displays the current temperature inside the device



It is forbidden to interfere with systemic parameters of the thermostat, as this can lead to serious consequences, including the damage of the cooling device!

4.2. Humidity regulation

Hygrostat is used to control humidity, when the temperature within the display cabinet shall fall between 10°C and 15°C. We may adjust the desired air humidity in the display cabinet, with the help of hygrostat knob, within the range between 30 and 80% by turning the knob *Fig.7 (p. 11)* and setting it in a proper place. Turning the knob clockwise will decrease the set air humidity, and turning it in the opposite direction will increase the set air humidity. Turning the knob left to the final position shall switch off the hygrostat, despite the **active power supply**.

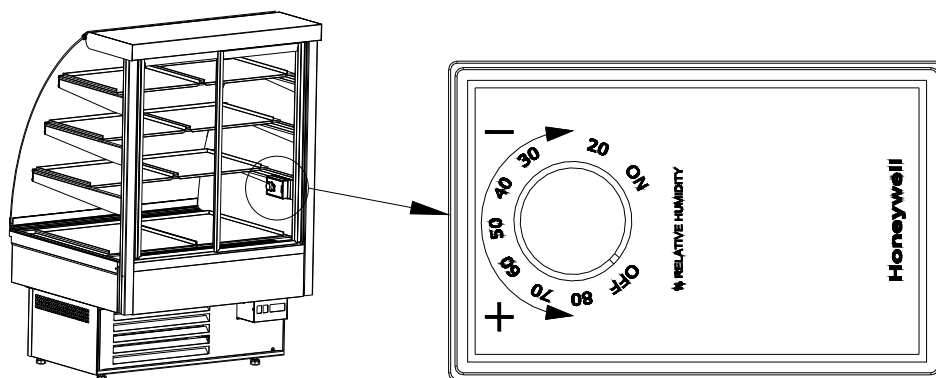


Fig.7 Hygrostat

5. MAINTENANCE

5.1. Cleaning and maintenance

-  **All maintenance services need to be performed after disconnecting the device from power supply!**
-  **Protect electric installation against any damage or water spillage**
-  **Do not use water stream to clean the device, only a wet cloth**
-  **Do not use any sharp objects to remove filth!**
-  **Devices equipped with wheels cannot be used on uneven surfaces!**
-  **When cleaning the inside of the device do not leave the front glass freely lifted within the aluminium profile. This is related with the risk of glass damage and is not covered by warranty. The glass and the profile need to be pulled out for the period of performing maintenance activities. *Fig.8 (p. 11).***

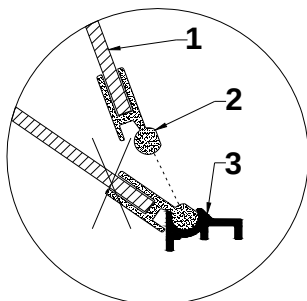


Fig.8 Disassembly of the front glass

- 1- Front glass
- 2- Upper aluminium profile (lifted guide) of the glass
- 3- Lower aluminium profile (hinge) of the glass

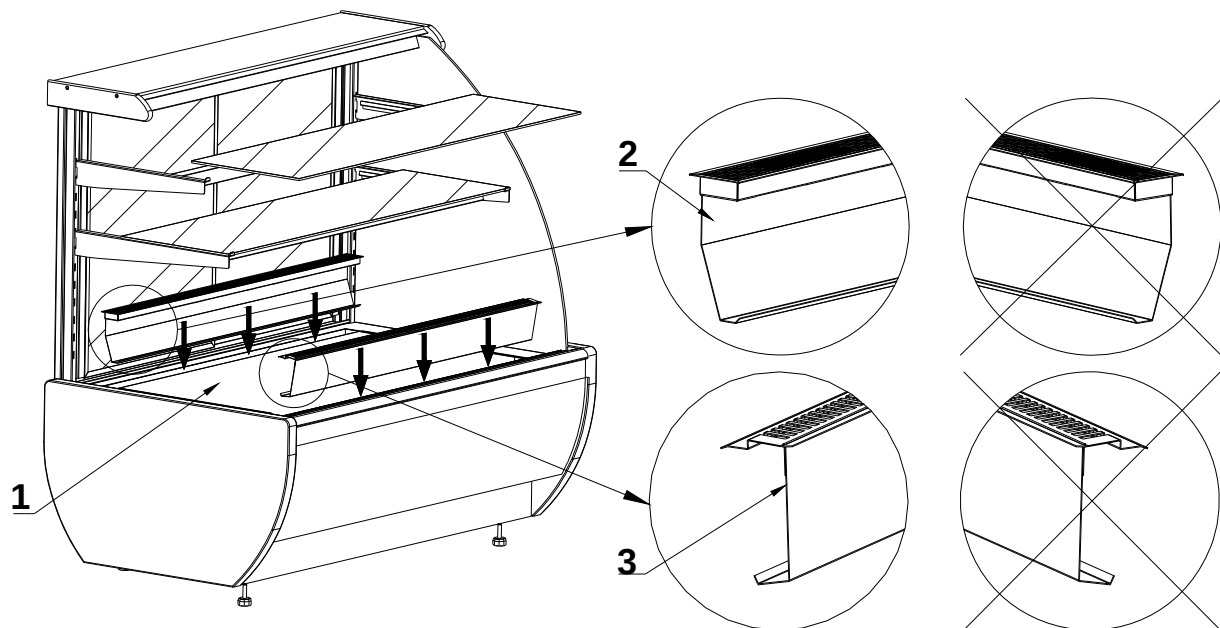


Fig.9 Manner of assembling/pulling out the blow-in and suction

- 1 – Inner top
- 2 – Blow-in (DO NOT BLOCK the holes!!!)
- 3 – Suction (DO NOT BLOCK the holes!!!)

First cleaning of the device should be performed after unpacking and before actuating the device. The device should be cleaned with water and neutral cleaning agents. **Do not use surface scratching agents, caustic agents or agents containing chlorine and/or soda.** Possible glue or silicone residues on metal elements should be removed solely with extraction naphtha (**does not concern elements made of plastic!**). Do not use other organic solvents.



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

It is recommended to make a break in the exploitation of the device once a month in order to clean its interior, naturally defrost the evaporator, clean the condenser and evaluate the condition of door seal (Jamajka 0.6).

Condenser of the device should be kept clean. Impurities obstruct the heat exchange and may cause, among others, increase in electric energy consumption and might lead to aggregate compressor damage.

In order to cleanse the condenser it is necessary to unscrew fixing plate screws and remove the wind brace. Clean condenser lamellas with soft tuft or brush. In case of significant contamination of the condenser (lamellas being clogged) it is recommended to use vacuum cleaner or compressed nitrogen to suck off/ blow out the dirt found between the lamellas.

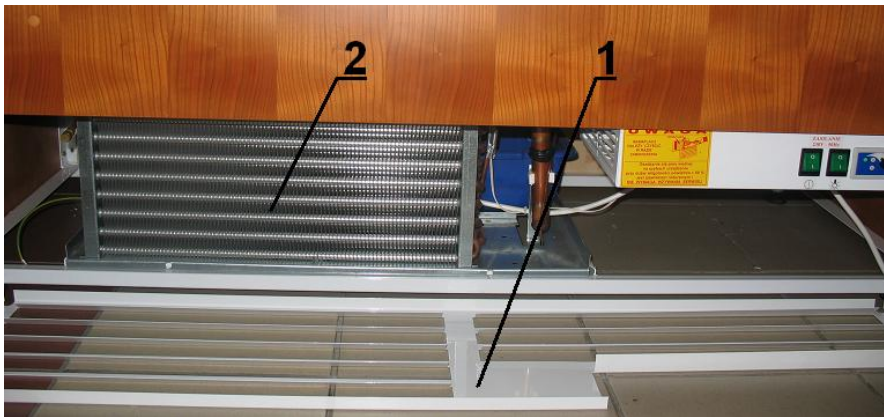


Fig.10 Condenser cleaning

- 1 – Wind brace (DO NOT BLOCK ventilation holes!!!)
2 – Condenser lamellas



The producer shall not be liable for damages of the condensing aggregate resulting from non-observance of condenser purity!



(This concerns Jamajka 0.6) Door seal should be cleaned solely with clean water without any cleansing agents and it should be thoroughly dried. **The seal cannot get into contact with oily substances or grease!**

Control whether door close properly during maintenance procedures.

Test: place a sheet of paper between the seal and the casing and close the door. The paper should pose a tangible resistance during an attempt to pull it out.



Elements of the device made of stainless steel may corrode in case of improper usage and maintenance. Obey the following principles:

- **Avoid contact between steel surfaces and agents containing chlorine and/or soda, which destroy steel protective layer**
- **Avoid contact between stainless steel and the ordinary steel – especially during transportation, during warehousing and exploitation**

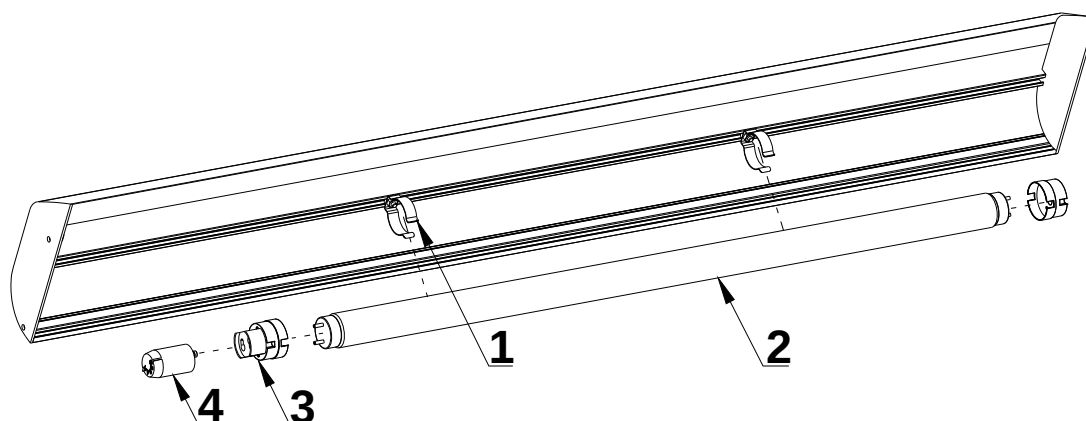


Fig.11 Changing the fluorescent lamp

- 1 – Fluorescent lamp handle
- 2 – Fluorescent lamp
- 3 – Fluorescent lamp casing
- 4 – Fluorescent lamp starting switch



During maintenance services it is necessary to pay attention not to damage the data place of the device [Fig.12 \(p. 17\)](#), which contains significant information for servicing organs and waste removal 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 25°C
- 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 25°C

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



Noises made by the operating device are a normal phenomenon. The devices are equipped with ventilators, engines and compressors, which turn on and off automatically. **Each compressor makes certain noises when operating. These sounds are made by the aggregate engine and by cooling agent flowing through the circuit. This phenomenon constitutes a technical feature of cooling devices and it does not signify their faulty work.**



Steam precipitation on glasses of the device is a normal phenomenon in case of high relative air humidity exceeding 60% and does not require calling the service!

6.2. Service

IGLOO service telephone number: +48 (014) 662 19 56 or +48

605 606 071

e-mail: serwis@igloo.com.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. 17)*:

- **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)**

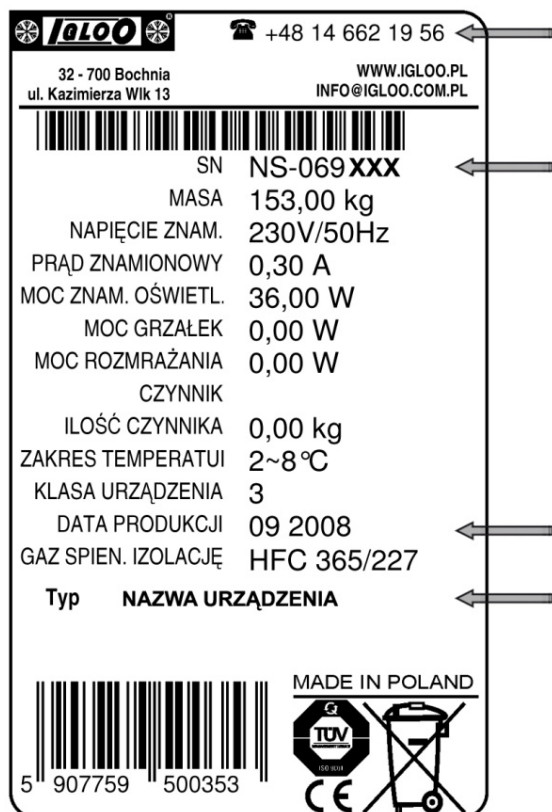


Fig.12 Data plate



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

7. THERMOSTAT SERVICE

7.1. "IGLOO" thermostat

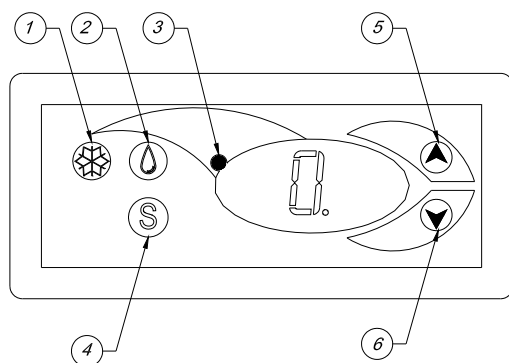


Fig.13 "Igloo" thermostat control panel

- 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. Bu pressing the “▼” switch we decrease the temperature to the desired value. The function shall end 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

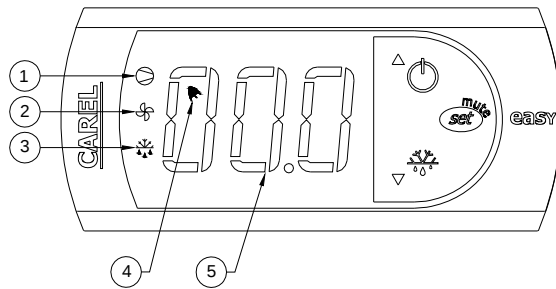


Fig.14 "Carel" thermostat control panel

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 defrosting 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: 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  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!!!

Information included in this document may be altered by "IGLOO" without noticing the user.

Copying the present manual without the consent of the producer is forbidden. Images and drawings are of demonstrative character and may differ from the purchased device.