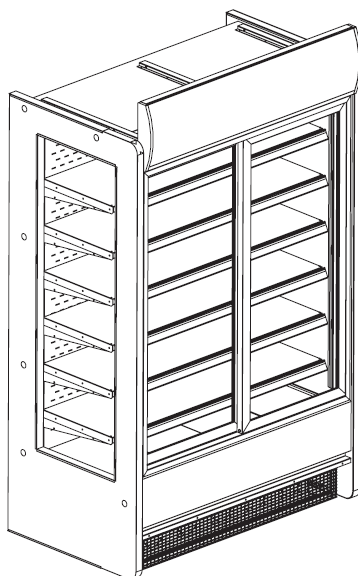




KING AT

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INSTRUCTION MANUAL

IN0069

User manual KING IGL

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

"King" is a universal cooling device used to display and short-term storage of a wide assortment of grocery products previously cooled to storing temperature. Guaranteed temperature within the rack ranges between +4°C and +8°C with ambient temperature ranging between +15°C and +25°C and relative air humidity of up to 60%.

2.2. Description of the device

"King" is a refrigerating rack with internal aggregate and forced air circulation. The rack is equipped with electronic thermostat, automatic defrosting and condensate removing pump. The lower part is furnished with advertisement space. "King" is furnished with six rows of regulated shelves with product separators. The interior of the rack is illuminated. There is a possibility to use additional illumination of each shelf or vertical lateral illumination.

Our devices are made according to modern technologies and have all certificates required by law.

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

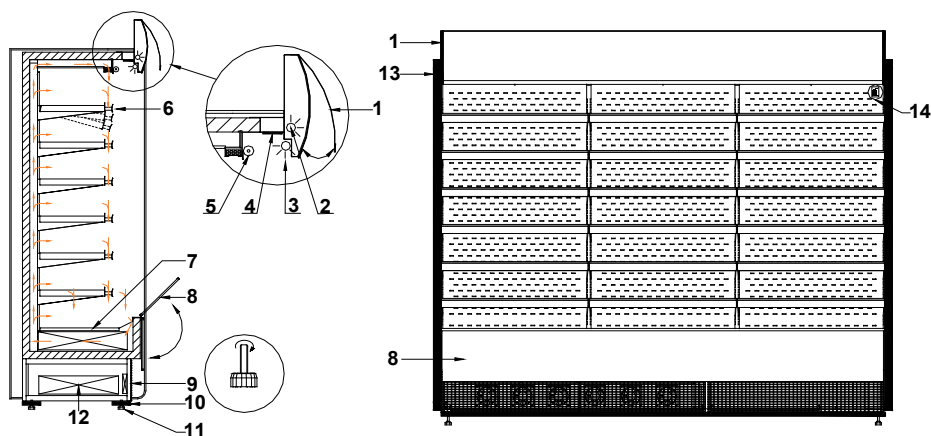


Fig.1 Construction of the device

- | | |
|---|--|
| 1 – Advertisement banner (lifted) | 8 – Advertisement space (lifted) |
| 2 – Illumination of the advertisement panel | 9 – Grid wind frame (covering cooling aggregate) |
| 3 – Illumination of the interior in the rack | 10 – Wooden platform mounted for transportation |
| 4 – Rack control panel (switches/temperature regulator panel) | 11 – Feet used for levelling the device |
| 5 – Manual roller | 12 – Condenser of the device |
| 6 – Upper regulated shelves | 13 – Metal sides |
| 7 – Lower shelf | 14 – Data plate |

2.3. Technical data

Table 1 Technical data

Name of the device	Rated voltage [V]	Rated current [A]	Rated lighting power [W]	Electric energy consumption [kWh/24h]	Max shelf load [kg/mb]
KING IGL 10	230/50	3,0	60	9,8	33
KING IGL 16	230/50	4,1	116	13,3	33
KING IGL 20	230/50	5,3	120	17,2	33
KING IGL 25	230/50	7,2	144	23,1	33

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 the power consumption of the installed device
- It is forbidden to connect the device by means of extension cords 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 socket should be protected with time delay cut out of proper value

KING IGL	10	16	20	25
	C10	C13	C16	C20



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 the wooden platform from the basis Fig.2
 - Remove the protective foil and cardboard sections
 - Place the device on an even basis, which is hard enough, and then level it with the help of feet.
 - If the user shall obtain a device partially disassembled to secure it during transportation, perform the following operations, according to Fig. 3 and Fig. 4
- I. Mount the hooks in rack strips Fig. 3
 - II. Mount shelves on hooks
 - III. Place price strips on air guide rings
 - IV. Place separators (product separators) on shelves
- 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



When the installation in the target location is finished, the device should be left to rest, for at least 2 hours, before actuation, allowing the cooling agent to settle, which will prevent problems with actuating the cooling aggregate!

WARNING: Prevent the cooling circuit from any damages!

- 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!)
- Turn the main switch on Fig. 5/2, which will activate the thermostat, and then the aggregate of the device.
- Set the temperature on the temperature regulator panel Fig 5/1
- Turn on the lighting switch Fig. 5/3

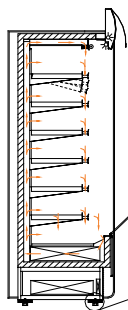


Fig.2 Removing the wooden platform

- 1 - Unscrew the feet from the platform
- 2 - Remove the wooden platform
- 3 - Screw the feet in nuts welded to the frame of the device

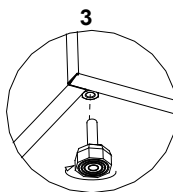
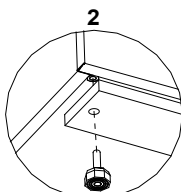
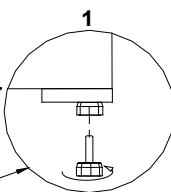


Fig.3 Mounting the hook in the rack frame

- 1 - Screen of the rack
- 2 - Frame for mounting the hooks
- 3 - Hook (adjusted to three-degree regulation of the suspension angle)

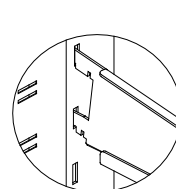
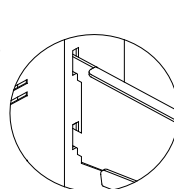
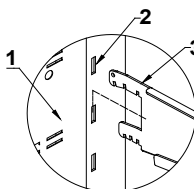


Fig.4 Rack shelf system

- 1 – Upper shelf
- 2 – Shelf separator (product separator)
- 3 – Hook of the shelf
- 4 – Air guide ring
- 5 – Price strip of the shelf

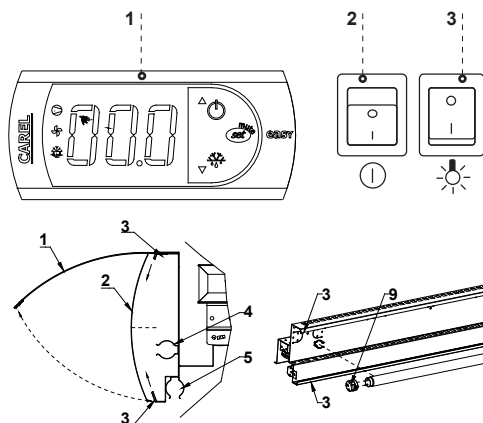
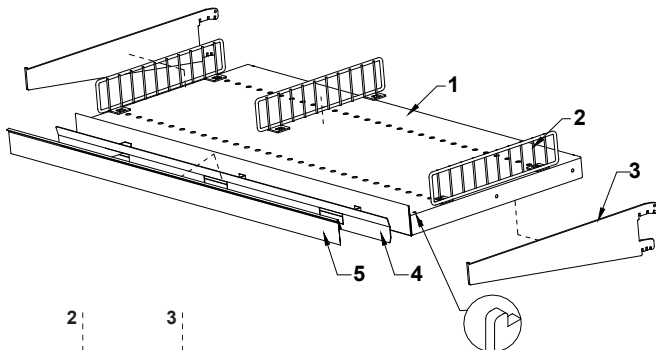
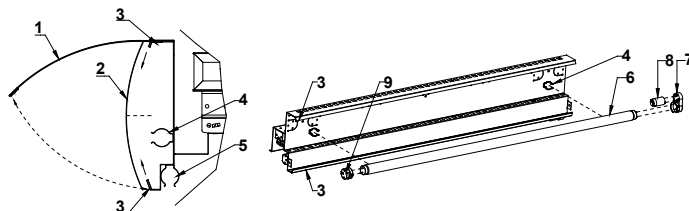


Fig.5 Control panel

- 1 – Thermostat (temperature regulator) panel
- 2 – Main switch (turns on/ off the aggregate of the device)
- 3 – Illumination switch

Fig.6 Exchange of the fluorescent lamp

- 1 – Lifted advertisement panel (colourless)
- 2 – Plexi plate of the upper panel
- 3 – Grips fixing the Plexi plate
- 4 – Grip of the fluorescent lamp (illumination of the upper panel)
- 5 – Grip of the fluorescent lamp (upper, internal illumination)
- 6 – Fluorescent lamp
- 7 – Casing of the fluorescent lamp and the starter
- 8 – Starter of the fluorescent lamp
- 9 – Casing of the fluorescent lamp



4. EXPLOITATION

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

The device should be placed in a dry place, not insulated and well ventilated, ensuring proper air circulation (min. 10 cm distance between the wall and the device), far from sources of heat and devices forcing the air circulation (roof ad mobile ventilators, blowing heaters). The device operates properly in an environment, where temperature falls within proper climate class stated on the data plate. The operation of the device may worsen, when it will operate in temperature higher or lower than the one determined in the stated temperature range.



Remarks and indications

- It is essential to properly level the rack, which prevents the loud operation of the device and shall ensure proper water (condensate) outlet during defrosting.
- After transportation of the device it is essential to wait about 2 hours before its actuation.
- In order to ensure proper food storage conditions, it is forbidden to fully complete the shelves. It is necessary to ensure even load of the shelves and do not exceed their maximal load.
- The first filling of the freezing space should be performed after its previous cooling to working temperature. This principle should also be observed after longer pause in exploitation.
- Do not place hot products in cooling devices.
- Do not block any ventilation holes, which would hamper the cooled air circulation (Do not place the products directly by the screen!) It is necessary to ensure proper airflow around the device (aggregate ventilation holes cannot be covered).
- Do not use electric devices inside grocery product storing chamber

4.1. Temperature regulation



“Igloo” thermostat (temperature regulator) service is described in chapter 7

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 settings of 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!

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 dirt!

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 of the device should be removed solely with extraction naphtha (**does not concern elements made of plastic!**). Do not use other organic solvents.

It is recommended to make a break in the exploitation of the device once a month in order to clean its interior and naturally defrost the evaporator.



Do not use mechanical agents to fasten the defrosting process!

Condensate pump is placed on the basis of the device, close to the cooling aggregate. It is used to remove condensate and it is activated automatically when the water in the container reaches a certain level. It operates only when the main switch is turned on.



Turning off the main switch may result in overflow of the container – it is essential to pay attention to this fact during defrosting or when turning off the device.

If the condenser is dirty Fig.1/12 it is indicated to use vacuum cleaner or compressed nitrogen to suck / blow the dirt from between lamellas.



During maintenance services it is necessary to pay attention not to damage the data plate of the device, 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 switched on (Concerns the Igloo thermostat – If only two dots are displayed on the screen – turn on the thermostat)

The device is operating, the lighting is switched off... – Make sure that:

- The lighting switch is on
- Fluorescent lamp or the starter of the device are not blown out

Water leakage from under the device

- Verify the correctness of device levelling
- The main switch is on – when the main switch is off the condensate pump is off
- Water outlet hose is properly connected

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
- The thermostat is operating properly
- Make sure that the condenser is not filthy, and clean the condenser when necessary
- Ambient temperature does not exceed 25°C The producer does not ensure proper temperature within this scope of temperatures
- 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 "IGLOO" thermostat) The device is working, sound signalling is activated...– Make sure that:

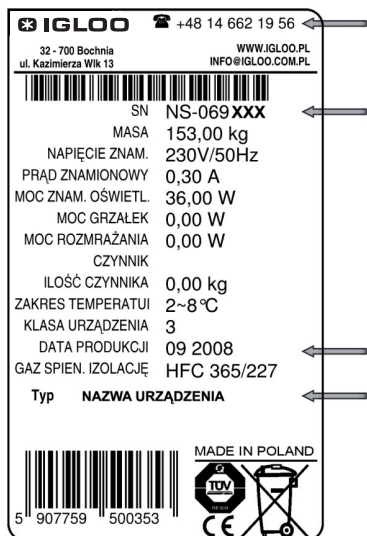
- The condenser is clean, if necessary – clean the condenser
- Condenser ventilator is working properly
- Ambient temperature does not exceed 25°C

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

- The device is standing stably and is properly levelled
- Furniture adjoining the device do not vibrate when the compressor is working
- Internal elements have been properly mounted



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.



6.2. SERVICE

Inox-Bázis Kft. service telephone number: +36 1
788-1828 19 56 or e-mail: info@inoxbазis.hu

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 Inox-Bázis company, stating the data from the data plate Fig. 7

- 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.7 Data plate

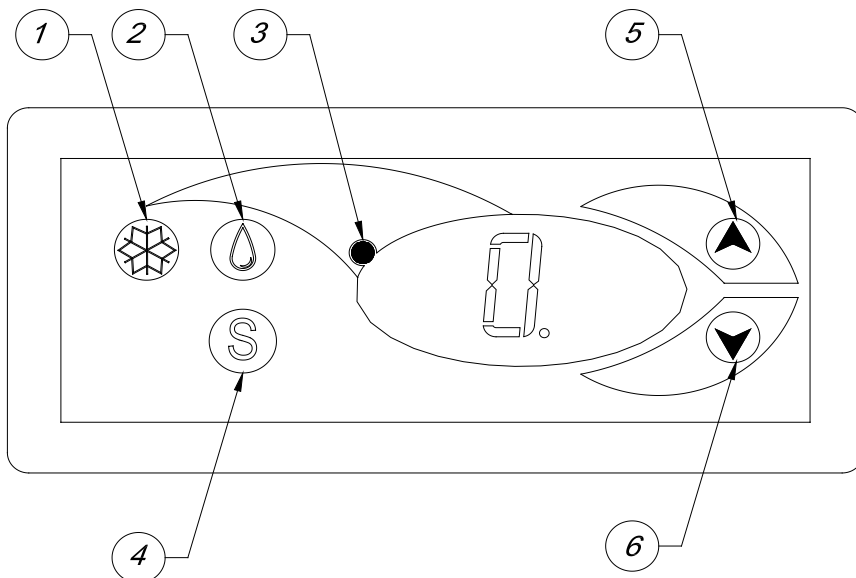


The above figure shows a demonstrative data plate and the data stated on the plate are exemplary data, which are not related with "King IGL" device!

7. THERMOSTAT SERVICE

7.1. „IGLOO” thermostat

Fig.8 „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!