IGLOO
MORE THAN COOLING

# PROXIMA

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Refrigerated display cabinets

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## INSTRUCTION MANUAL

IN0133 01.04.2023

Inox-Bázis Kft., 9090 Pannonhalma, Arany János u. Központi major Tel.: +36 1 788-1828

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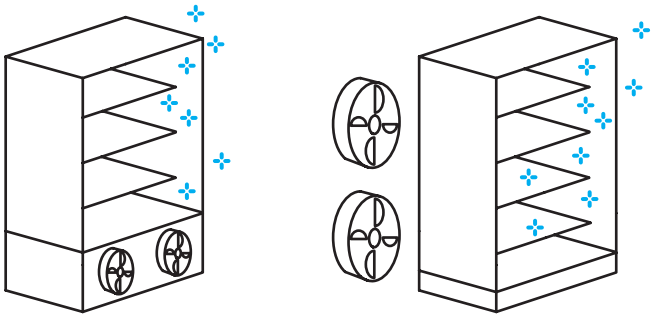

# INSTRUCTION MANUAL
## COOLING AND FREEZING DEVICES

en Instruction manual - cooling and freezing devices

Issue - April 2023

Inox-Bázis Kft., 9090 Pannonhalma, Arany János u. Központi major Tel.: +36 1 788-1828

en

The **“Operation and Maintenance Manual„** is divided into two parts. The first part consists of the **„Instruction Manual”** which contain a set of general information regarding safety and correct: setting, delivery, use and maintenance of IGLOO products.
The second part of the manual is the **„Technical Data and Assembly Instructions”**, containing a set of general information on the safe and correct: setting, connecting, starting, using and maintaining of refrigerating and / or freezing equipment manufactured by IGLOO

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ORIGINAL MANUAL

READ CAREFULLY BEFORE USE
KEEP FOR FUTURE REFERENCE

This symbol indicates information vital for user safety and correct operation of the equipment. Failure to observe such information is the main reason for revoking the warranty.

**(REMOTE) Equipment adapted to a central (external) unit, outside the equipment**

**(PLUG-IN) Equipment with built-in internal unit**


**TECHNICAL DATA AND ASSEMBLY INSTRUCTIONS**

**CONTENTS**

## 1. INTRODUCTION
### 1.1. General

The equipment should be installed and started in accordance with manufacturer's recommendation and local instruction and regulations. In case of damage of the equipment or any of its subassemblies, check immediately if this is not a hazard for people or property.

Photos and figures in the Manual are indicative only and may differ from the equipment actually purchased.

**Keep the Manual is a safe place that is easily accessible to all product users.**

### 1.2. Warranty

Each equipment is covered by a workmanship made material warranty conditional upon correct operation and maintenance according to the guidelines given in INSTRUCTION MANUAL and TECHNICAL DATA. For detailed information see WARRANTY CARD.

**Equipment repair within warranty period:**

- may be performed only by an authorized manufacturer's service
- **repairs by unauthorized personnel will render the warranty null and void**
- defects should be reported to service outlets, seller, or directly to the manufacturer's service
- in the defect report, quote e.g. the serial number

## 2. CHARACTERISTICS AND PRINCIPLE OF OPERATION
### 2.1.Characteristics

Refrigeration/ freezing devices are general-use equipment for storage and display of various foods, previously cooled to adequate operation temperature, at ambient temperature +15ºC /+25ºC and relative humidity up to 60%. All equipment manufactured by IGLOO is adapted to operation in a suitable climate zone and suitable temperature class, according to PN EN ISO 23953.
The guaranteed temperature inside the equipment is given on the rating plate and in Technical Data.

### 2.2.Principle of operation

Refrigeration and/or freezing equipment is used for food storage in an adequately cold temperature. A liquid called coolant absorbs heat from the inside of equipment and flows through the evaporator which blown through by fans (ventilated equipment – dynamic) or is not blown through by any fans (gravity equipment – static). The fans, if any, are usually placed very close to the evaporator. The evaporator is the coldest place of the equipment. Depending on equipment type, the evaporator can be placed in different places: on the equipment back, on the ceiling, or on the equipment bottom. The cooled air from the evaporator flows through ducts and air outlets, and then is sucked by air inlets. The process is cyclical.

The temperature in the equipment is controlled by a thermostat (temperature regulator) located on the control panel.
Its location varies depending on the equipment model and type (see Technical Data).
The thermostat activates the equipment unit when the temperature in the equipment rises, and deactivates when the temperature drops too fast. The thermostat is an electronic controller which controls many parameters such as temperature, automatic defrosting, alarm signalling, etc.

⚠ Do not obstruct any ventilation openings in the equipment which could hinder the circulation of cooled air.

Each refrigeration/ freezing furniture must be adequately thermally insulated. If the equipment has night roller blinds or plexiglas night covers, remember to use them. The outside heat flowing into the equipment makes the unit activate more frequently and increases the electricity consumption.

**3.SAFETY – SIGNS AND PICTOGRAMS**

For optimum and safe operation of the equipment please observe all information, warning and safety signs described in this Manual and/or placed on the equipment.

**Important signs and information**

NOTE: Drainage removal. Label on the equipment base. If the equipment does not feature an overflow pan, water shall be removed from the evaporating tank or condensate container.

Protective earthing. Label on the equipment base.



Maximum line of product load in the equipment. Label on glass sides

**4.TRANSPORT AND UNLOADING**
**4.1.Packaging and transport conditions**

The equipment is shipped from the manufacturer on a wooden platform, pallet or in the crate, protected by carton angles and plastic film.

Some components may be dismantled for transport, and suitably secured and packed.

Pay attention to glass parts during transport and loading/unloading.

Transport the equipment in the operating position and secure it against movement.

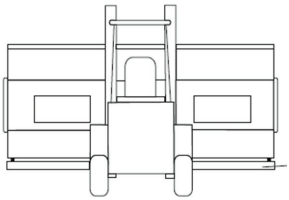
**It is forbidden** to stack the equipment, place one onto the other. Hazard of property damage, and death or injury of people present in the vicinity.

After receiving the consignment, check for possible transport damage. Report all damage to the carrier immediately and make a damage report. The manufacturer is not responsible for the equipment damaged during transport.

Do not throw the packaging and protection materials as garbage. Recycle!

### 4.2.Unloading

Unload the equipment manually or using a suitable hoist or forklift, always in the position of normal operation. The maximum inclination angle is 15 degrees. Take notice of the equipment weight and choose a forklift with suitable lifting capacity. Tall equipment shall be additionally protected against tipping and loss of stability.



Equipment transport in a crate

**Fig. 1 Equipment transport**

Podczas wjazdu widłami wózka pod urządzenie należy uważać na jego elementy wyposażenia, aby ich nie uszkodzić. Szczególnie trzeba zwrócić uwagę na: nóżki urządzenia, cokoły, boki urządzeń itd.

## 5.PREPARING THE EQUIPMENT FOT OPERATION

### 5.1.Requirements for equipment operation place

The equipment may be used only indoors. Outdoor use is prohibited. The floor on which the equipment will be placed must be levelled and stable.
Install the equipment in a dry, well-ventilated place, not exposed to direct sunlight. Use curtain/ roller blinds in windows if necessary. Ensure a good air exchange (distance between the wall and the equipment shall be min. 10 cm), install far from heat sources and equipment forcing the air flow (air conditioners, ceiling or portable fans, fan heaters – they MUST NOT blow the air into or extract it from refrigeration equipment!). The equipment works properly in an environment in which the temperature is within the climate class specified on the rating plate. The equipment operation may deteriorate if for a longer time it is used in the temperature higher or lower than specified.

### 5.2.CONNECTING THE EQUIPMENT

#### 5.2.1.Connection with external unit

The installation and first start-up of equipment with an external unit (Remote) shall be performed by suitably, trained, qualified and licenced personnel. After connecting the equipment and before putting it in operation, check the tightness of connections and correct operation of the system. Report any leakage in the system immediately to the nearest service outlet, and use the safety valve to cut off the working medium from the system.

#### 5.2.2.Installation in lines

If equipment purchased by you is to be connected in a line, you will find all necessary fastening parts (bolts, plugs, and connecting elements) suitably packed in the installation kit attached do the equipment. The equipment shall be installed by suitably, trained and qualified personnel.

#### 5.2.3.Connecting to sewers (PLUG-IN type)

Refrigeration/ freezing equipment feature drain funnels for the evaporator trough and/or drip tray. The system for removal of condensate formed during the defrosting is terminated with a drain funnel or air-trap. The defrosting water can be discharged directly to the container placed under the equipment body, can be sent to electric or gas evaporating tank, or discharged directly to the sewer.

**During the first start of equipment with an air-trap pour about 0.3 litres of water to each outflow opening in order to fill the air-trap. Air-traps filled with water are natural valves preventing entry of unpleasant smell from sewers.**

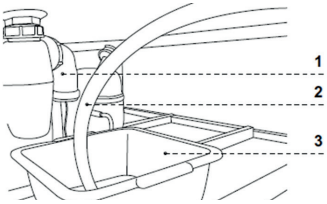



**Fig.2 Typical condensate container**

1 – Water drain from the equipment (air-trapped)
2 – Water drain hose from trough (outflow of condensate from evaporator defrosting)
3 – Condensate container (to be emptied)

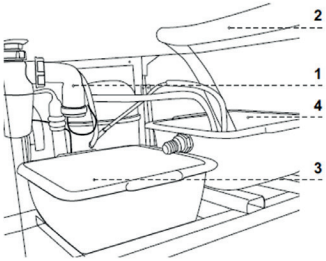



**Fig.3 Typical overflow (version with evaporating tank)**
1 - Water drain from the equipment (air-trapped)
2 - Water drain hose from trough (outflow of condensate from evaporator defrosting)
3 - Overflow (remove condensate if water overflows from evaporating tank!)
4 – Evaporating tank

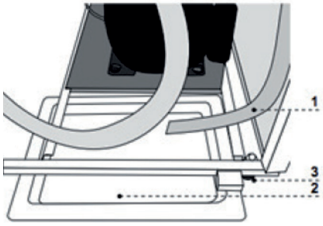



**Fig. 4 Typical condensate tray**

1 – Water (condensate) drain hose
2 – Condensate tray

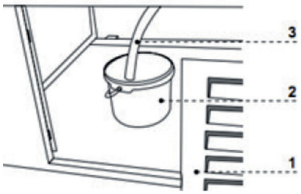



**Fig. 5 Typical condensate container (outflow without air-trap)**

1 – Ventilation openings
2 – Condensate container
3 – Water drain hose

### 5.2.4.Connecting to sewers (REMOTE type)

If the equipment features an external unit (mod/C), connect the defrosting water drainage directly to sanitary sewers and carefully inspect the pipes and fastenings, check the unobstructed flow and leak-tightness. The pipes connection places are marked in

### 5.2.5.Connecting to mains

Start the equipment only after verifying the effectiveness of electric shock protection by means of measurements conforming to applicable regulations!

**Before starting the equipment:**

- Check if the mains voltage and frequency conform to values recommended by the manufacturer (see rating plate);
- Check if cross section of supply leads is adequate for current consumption by the equipment;
- Do not connect the equipment using extension cables or power strips;
- Connect the equipment to a separate, correct electrical circuit with an outlet with protective pin;
- Check the condition of the equipment's electrical fixtures.

When the mains comply with these requirements, you can connect the equipment. Put the plug into the outlet. The equipment is ready for operation.

After completing the installation at the final place, leave the equipment for at least 2 hours before staring (applies to equipment with an internal unit) for the oil level to settle. This will prevent problems with the start-up of refrigeration unit!
WARNING: Protect the refrigeration circuits against damage!

The outlets (option) can be used to connect a cash register, scales, etc. The maximum rated power of such loads is 500W!

In case of the failure of the electrical system of the equipment, disconnect it immediately from the mains and contact an authorized service outlet.

**ATTENTION:**
**All connections and repairs of live equipment or parts can be performed only by qualified personnel.**

### 5.2.6. Wiring diagrams

The equipment wiring diagram is attached to the control box – location, see .
**NOTE: Basic thermostat data are given in Section 9.**

### 5.3.FIRST START

- Take out the equipment from the crate, pallet or remove the wooden platform on the base (Fig. 6).
- Place the equipment on an even and sufficiently hard floor, and then level using the feet. In case of movable equipment, use the wheel lock to prevent movement during operation (Fig.7)
- Correctly level the equipment to prevent its noisy operation and ensure correct outflow of water (condensate) during the defrosting!
- Remove the protective film.
- Connect the equipment (see 5.2) and .
- Wash the equipment carefully, wipe dry, and leave for some time to dry completely.
- If the equipment was received partially disassembled for transport, perform assembly operations. For details, see .

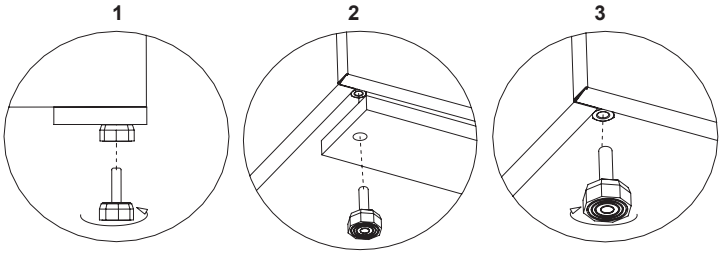



**Fig.6 Removal of wooden platform**
1 – Remove the feet from the platform
2 – Remove the wooden platform
3 – Screw in the feet into the nuts welded to the frame

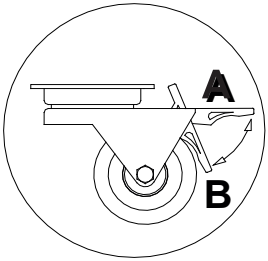



**Fig. 7 Wheelset**

A – drive position
B – locked position

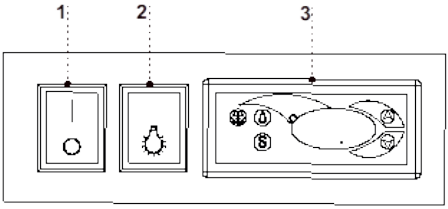



**Fig. 8 Typical control panel**

1 – Main switch (refrigeration unit on/off)
2 – Light switch
3 – IGLOO thermostat panel

- Put the plug of the power supply cable into the outlet (do not connect the equipment using extension cables or power strips!)
- The control panel (Fig.8) includes, amongst others: thermostat panel (3) and switches (main switch) (1), light switch (2)). Pres the main switch to activate the thermostat, and then the refrigeration unit.

### 5.5. HUMIDITY CONTROL

The basic thermostat function is to control the refrigeration unit in order to obtain the set temperature inside the equipment and keep it within set intervals. All thermostat setting are made by the manufacturer. Before the first start, the User should check the required temperature on the panel, and possibly set another temperature.

**Digital display** – shows current temperature inside the equipment

⚠ Any tampering with the thermostat factory settings will render the warranty null and void!

### 5.5.HUMIDITY CONTROL

**NOTE: Applies only to selected refrigerating equipment and can be used only with the IGLOO thermostat.**

**Fig. 9 STEGO Hygrostat**

## STEGO Hygrostat

The hygrostat is used to control the humidity when the temperature inside the refrigerating equipment is in the 10ºC-15ºC range. Use the knob to set the required humidity in the 40% - 90% range. Turn the knob clockwise to increase the humidity, and anticlockwise to reduce it.


## Higrostat „HONEYWELL”

The hygrostat is used to control the humidity when the temperature inside the refrigerating equipment is in the 10ºC-15ºC range. Use the knob to set the required humidity in the 30% - 80% range. Turn the knob clockwise to increase the humidity, and anticlockwise to reduce it. Turn the knob fully anticlockwise to turn the hygrostat off, despite the power on.

**Rys. 10 Higrostat „Honeywell”**

### 6.OPERATION
### 6.1.Operating personnel

Equipment is safe and adapted to operation in the presence of unqualified personnel, provided they know and apply necessary OHS rules, have read the Manual and do not break the rules of operation of live equipment.
No personal protective equipment is necessary during normal operation of equipment (e.g. gloves, safety glasses). This rule does not apply during installation and maintenance when all precautions indicated in the Instruction Manual and should be applied.

All repairs and maintenance shall be performed by adequately qualified personnel.

### 6.2. Operation hints

- Food products must not have temperature higher that the equipment operating range. The first filling of refrigeration space must take place after it is cooled down to the operating temperature. This rule also applies after a longer period of disuse.
- Do not put warm products to refrigeration/ freezing equipment.
- Do not store bottles and cans with beverages in freezing equipment. The contents may expand during freezing, bursting the container. Risk of injury and damage!
- Load the shelves evenly, and do not exceed maximum load.
- Do not exceed the “Maximum load line” (label on the glass side!)
- Do not obstruct ventilation openings which could hinder circulation of cooled air. Ensure a correct air flow around the equipment (never cover the unit’s ventilation openings – perforated elements shielding the condenser) as this can affect the correct operation. The minimum space in front of the cooling unit louvre is 1 metre.
- Food products should not protrude outside the display shelf and must not cover outlets and inlets of cooled air.
- Do not use electrical appliances inside the storage chamber.
- Perform any maintenance when the equipment is disconnected from the mains!
- Protect the electrical wiring against water.
- Do not clean with water jet, use a wet cloth.
- Do not use sharp objects to remove dirt!
- Do not use mechanical devices to speed up the defrosting!
- Lower the night roller blinds (if any) when the store is closed to save electrical energy!

- Do not open the door unnecessarily and do not leave the open for a longer time
- When you have closed the door, do not force it open. The negative pressure inside is equalized within 1-2 minutes, allowing easy opening of the door.

⚠
- Keep the condenser and filter clean. Dirt may cause the compressor overheating, leading to equipment damage which is not covered by warranty.

- Protect the refrigeration circuit against damage! In case of any suspected depressurization of the refrigeration circuit and coolant leakage, ventilate the room and call authorized service.

**7.MAINTENANCE**

Keep the equipment clan and periodically service it.

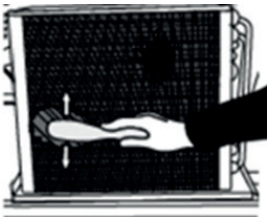
**7.1. Maintenance by unqualified personnel**

**An interruption of equipment operation is recommended at least once a month** in order to clean the inside, naturally defrost the evaporator, clean the condenser, check the unobstructed flow to sewers, check the door gaskets, etc.

## To clean the equipment:

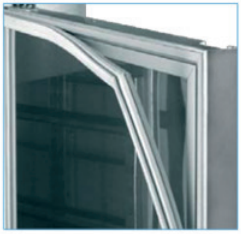
– Put the light switch and the main switch on the control panel to OFF.
– Disconnect the equipment from the mains – pull out the power cable plug from the outlet
– Empty the equipment
– Wait until the temperature inside reaches the ambient level and the ices evaporator is completely defrosted.
– Check water outflows from the equipment and condensate drains from the evaporator. Check for impurities in this area, and remove if there are any.
– Check the leak-tightness of connections with sewers (inspect the piping for drips of water)
– (PLUG-IN) Pull out the metal sheets covering the condenser lamellas and check if the condenser is clean – clean if necessary
– Wash inside and outside with a mild detergent, and then dry.

**NOTE:** In equipment with hinged door check the condition and cleanliness of the magnetic gasket. Clean or replace if necessary.
- Restart the equipment according to the description in **Section 5.3.**



**Rys. 11 Czyszczenie skraplacza**

**The condenser** must be kept clean. Dirt impedes the heat exchange, causing, among other things, an increased power consumption and a risk of compressor damage.
Remove the perforated plate to clean the condenser. Clean the condenser lamellas with a soft brush or a paintbrush. If the condenser if very dirty (clogged lamellas) use a vacuum cleaner or compressed nitrogen to suck in/ blow out the dirt accumulated between the lamellas. Clean the filter on both sides, put it back, and install the perforated plate again.
**NOTE!** During the condenser cleaning wear protective glasses and gloves. Watch for very sharp lamella edges. Risk of cuts!



**Rys. 12 Drzwi rozwierne**

Clean the **hinged door gasket** only with water, without any detergents and dry it very carefully. **The gasket must not be in contact with any greasy or oily substances.**

**NOTE:** Cracked, broken, damaged door gaskets are an excellent place for growth of mould, fungi or bacteria. Wash the gaskets once a month with a disinfectant to prevent the growth of bacteria.

During the maintenance, check if the door closes properly.

**Próba:** umieścić kartkę papieru pomiędzy uszczelką, a obudową i zamknąć drzwi. Papier powinien stawiać wyczuwalny opór przy próbie wyciągania.

- Wash the equipment with water of temperature not exceeding 40ºC with addition of neutral detergents. It is forbidden to use cleaning agents containing chlorine and sodium in various forms which destroy the protective coating and equipment components (also some grades of stainless steel)! Possible residues of adhesives of silicone on metal parts may be removed only with extraction naphtha (does not apply to plastic parts). Do not use other organic solvents.

- Do not clean the equipment with water jet, use a wet cloth.
- After washing, wipe the equipment dry and leave it to dry completely!
- During operation and maintenance take care not to damage the temperature sensor located on the evaporator cover or another place.
- During maintenance take care not to damage the rating plate which includes important information for service personnel and waste disposal contractors.

**Maintenance by unqualified personnel**

**An interruption of equipment operation is recommended at least once a year** in order to perform a detailed inspection, check the technical condition, correct operation and electrical wiring.

## 8.SERVICE AND REPAIRS

### 8.1.Troubleshooting

Refer to these Manual sections in case of any problems with starting or operation of the equipment to make sure the equipment is used properly. If the problems persist, the hints below will help eliminate them.

| Possible FAILURE | Possible CAUSE | Suggested SOLUTION |
|---|---|---|
| **Equipment does not work** | Mains voltage and frequency different than foreseen for the equipment | See the rating plate. Connect the equipment to correct mains |
| | Power supply cable disconnected | Connect the power supply cable |
| | Power supply cable damaged | Remove the power supply cable from the outlet, insulate and call authorized service |
| | Main switch on control panel is OFF | Put the main switch to ON and check if the thermostat is working |
| **Thermostat problems** | Main switch is ON, but the thermostat panel displays:<br>CAREL: OFF and temperature blinking alternatingly mean that thermostat is off and it should be turned on<br>IGLOO: only two dots - thermostat is off and it should be turned on<br>DIXELL: OFF message: thermostat is off | **CAREL – Press ❄ on thermostat panel**<br><br>**IGLOO – Press ⏻ on thermostat panel**<br><br>**DIXELL – Press ▲ ⏻ on thermostat panel** |

| | | |
|---|---|---|
| **ALARMS in IGLOO thermostat – sound alarm is on** | Condenser contaminated | Clean the condenser |
| | Condenser fan damaged | Call authorized service |
| | Ambient temperature higher than 25ºC | Ensure correct ambient temperature |
| **ALARMS on IGLOO thermostat panel** | • C0 – temperature sensor in the chamber is damaged<br>• C1 – evaporator sensor damaged<br>• C2 – condenser alarm sensor is damaged (or the second condenser sensor is damaged) | Call authorized service |
| **ALARMS on CAREL thermostat panel** | • E0 – temperature sensor in chamber is damaged | Call authorized service |
| | • E1 - evaporator sensor damaged | Call authorized service |
| | • EE -thermostat internal error | Call authorized service |
| | • Ed – max. defrosting time exceeded | Call authorized service |
| | • DF – defrosting in progress (this is not an alarm) | Poczekać na koniec odszraniania |
| | • L0 –low temperature alarm (lower than set temperature range inside the equipment) | L0 and HI – These alarms can be caused by incorrect mains parameters. Reset the alarms by turning the equipment off using the main switch. If the problem reoccurs (alarm is displayed again), call authorized service! |
| | • HI – high temperature alarm | |
| **ALARMS on EVCO thermostat panel** | Pr1 – temperature sensor error inside the chamber | Call authorized service |
| | Pr2 – evaporator sensor error | Call authorized service |
| | Pr3 – condenser sensor error (if any) | Call authorized service |
| | LA – low temperature alarm (lower than set temperature range inside the equipment) | Check if the products do not cover or touch the temperature sensors, or do not cover air circulation openings. Place the product correctly and wait for 1 h. The alarm will disappear when the temperatures return to normal values. Reset the alarm by turning the equipment off using the main switch. If the problem reoccurs (alarm is displayed again), call authorized service! |
| | LA and AH – These alarms can be caused by incorrect mains parameters, or incorrect placement of products inside the equipment. | |

| | | |
|---|---|---|
| **ALARMS on DIXELL thermostat panel** | P1 – temperature sensor error inside the chamber | Call authorized service |
| | P2 – evaporator sensor error | Call authorized service |
| | P3 – condenser sensor error (if any) | Call authorized service |
| | HA2 – high condenser temperature | Clean the condenser (procedure in the Manual). If the alarm reoccurs after restarting the equipment, call authorized service. |
| | LA2 – low condenser temperature | Turn off the equipment using the main switch, turn it on again after a while. If the problem reoccurs, call authorized service |
| | dA – open door alarm | The alarm is deactivated after closing the door. If the alarm is displayed when the door is closed, call authorized service. |
| | EA – external alarm | The alarm is of after deactivation of the digital input (depending on input configuration) |
| | CA – serious alarm | Deactivation of all inputs. Call authorized service |
| | rtc – real time clock alarm | The alarm will disappear when the clock is set |
| | rtF – real time clock error | Call authorized service |
| | LA – low temperature alarm (lower than set temperature range inside the equipment)<br>AL and HA – These alarms can be caused by incorrect mains parameters, or incorrect placement of products inside the equipment. | Check if the products do not cover or touch the temperature sensors, or do not cover air circulation openings. Place the product correctly and wait for 1 h. The alarm will disappear when the temperatures return to normal values. Reset the alarm by turning the equipment off using the main switch. If the problem reoccurs (alarm is displayed again), call authorized service! |
| | HA – high temperature alarm<br>LA and HA – These alarms can be caused by incorrect mains parameters, or incorrect placement of products inside the equipment. | |

| | | |
|---|---|---|
| **Incorrect temperature*** | Main switch on the control panel is OFF | Put the main switch to ON and check if the thermostat is working |
| | Temperature on thermostat – the wrong range is set | Set the correct temperature range |
| | Ambient temperature higher than 25ºC | Ensure the correct temperature and operating conditions |
| | Equipment placed not according to the installation guidelines | Correct the place of installation and/or operating conditions (section 5.1) |
| | A sufficient time has passed for refrigeration of products | Wait about 20 minutes and check if temperature has changed |
| | Thermostat failure | Call authorized service |
| | Dirty condenser and/or condenser filter | Clean |
| | Blocked ventilation openings | Uncover ventilation openings inside the equipment; uncover condenser ventilation openings |
| **Lighting does not work** | Light switch is OFF | Put the light switch to ON |
| | Damaged lighting system | Replaced the LED light |
| **Dew on internal components** | Incorrect operating conditions. Humidity is too high | Ensure the correct operating conditions |
| | Blocked ventilation openings | Unblock air inlets and outlets |
| **Water leaks from under the equipment or to the chamber** | Equipment is not levelled well | Level the equipment |
| | Obstructed outflow pipes, blocked sewers | Ensure unobstructed flow through outflow pipes and sewers |
| | Overfilled condensate container | Empty the condensate container or the evaporator overflow container |
| | Iced evaporator and evaporator trough | Defrost – (Section X) |
| | Refrigeration system failure | Check the suggested solution given above. If the problem persists, call authorized service |
| **Excessively nosy operation** | Equipment not stable and is not levelled properly | Put the equipment on straight, stable surface and level it correctly |
| | Internal parts incorrectly placed and fastened | Fasten the internal parts correctly |

* During the defrosting the indications on the thermostat display and on the thermometer may differ significantly, as the current temperature on the display may be "blocked" for the duration of defrosting. If you are not sure of the equipment is defrosting, wait 1-1.5 hours and recheck the temperature. If the temperatures do not change, the equipment might have failed. If you cannot determine the cause, switch off the equipment, disconnect it from the mains, and call authorized service.

**NOTE:** Sounds generated by running equipment are normal. The equipment includes fans, motors and compressors which turn on and off automatically. **Each compressor generates a noise during operation. The sounds are generated by the unit motor and by the coolant flowing through the circuits. This is a technical feature of refrigerating equipment and does not mean its faulty operation.**

**The condenser must be kept clean.** Dirt impedes the heat exchange, causing, among other things, an increased power consumption and a risk of compressor damage.

### 8.2.Power outage

If there has been a power outage or the equipment has been disconnected form the mains and then reconnected, the equipment should switch on automatically. When the power is restored, check if the equipment operated properly. In case of any problems, contact the authorized service.

### 8.3.Lighting replacement

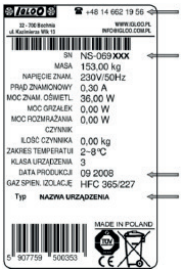
You can replace the LED lights on your own.
Be careful and observe general OHS rules. First:

1. Turn off the lights in the equipment – put the light switch to OFF on the panel, then put the main switch to OFF, and remove the plug rom the outlet.
2. Remove the light shade (if any) – depending on the equipment model.
3. Pull out the light from the holders and unfasten from the fixtures, turning it slightly around its axis.
4. Install the new light, turn it around its axis in the holders, and put it in the correct position.
5. Put the plug into the outlet.
6. Turn on the main switch on the panel, and then turn on the light switch.

If the LED-board type of light does not work (e.g. in selected racks with backlit top advertising panel), the replacement should be performed by authorized service.

### 8.4. IGLOO service

Telephone IGLOO: +48 (14) 662 19 10 or +48 801 080 257
e-mail: serwis@igloo.pl
If after checking the items listed in **section 8.1 Troubleshooting**, the equipment still does not work preoperly, cointact the Igloo Technical Service, quoting the data from the rating plate




- Serial number (NS)
- Production date
- Type (equipment name) and
- Purchase date
- Problem description
- Detailed address and telephone number (including area code)

**Fig.13 Example of rating plate**

## 9.ELECTRONIC TEMPERATURE REGULATOR (THERMOSTAT)
### 9.1.IGLOO thermostat

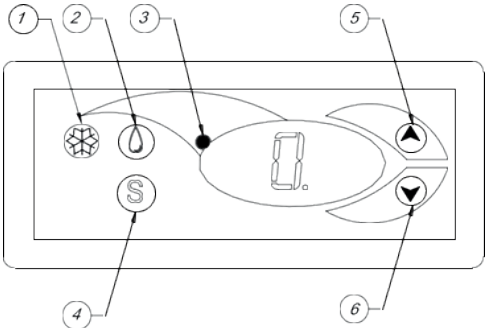



**Fig. 14 IGLOO thermostat panel**

1 – Refrigeration on/off button
2 – Manual defrosting button
3 – Unit operation and defrosting indicator light
4 – Button for preview of temperature on defrosting sensor
5 – Increase temperature button
6 – Decrease temperature button

**Check the set temperature (inside the equipment) –** Press▲ or ▼ once to check the temperature. The set temperature appears on the display, accompanied by a blinking red dot (LED). The preview will end automatically after about 3 seconds.

Increase or decrease the temperature - press ▼ (or▲) and the panel will display the set temperature. Press▼ to reduce the temperature to the desired value. The function will be deactivated automatically after about 3 seconds.

**Manual defrosting** – press button 2 to start the defrosting cycle anytime (independently of the automatic defrosting function); the button is inactive when the temperature is higher than the defrosting end temperature.

- It is recommended to turn the unit on/off using only the man switch, and not the switch (1) on the thermostat panel. Putting the main switch to ON automatically starts the thermostat!
- **IMPORTANT: If the main switch is ON and the display shows only two dots, it means that the thermostat is off and should be activated. Press the button (1) on the thermostat panel.**

### 9.2. IGLOO with built-in temperature recorder (mini USB)

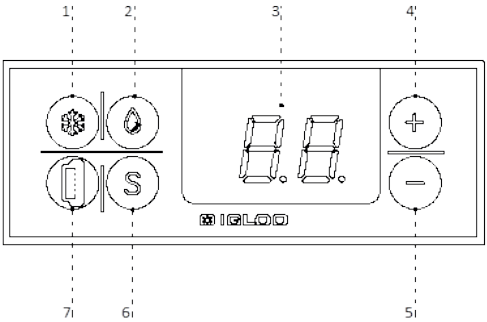



**Fig. 15 IGLOO thermostat panel**

1 – Refrigeration on/off button
2 – Manual defrosting button
3 – Digital display
4 – Increase temperature button
5 – Decrease temperature button
6 – Button for preview of temperature on defrosting sensor. Used to change the internal controller parameters
7 – Mini USB for temperature recorder

**Check the set temperature (inside the equipment) –** Press" ⊕ " or „ ⊖ " once to check the temperature. The set temperature appears on the display, accompanied by a blinking red dot (LED). The preview will automatically end after about 3 seconds.

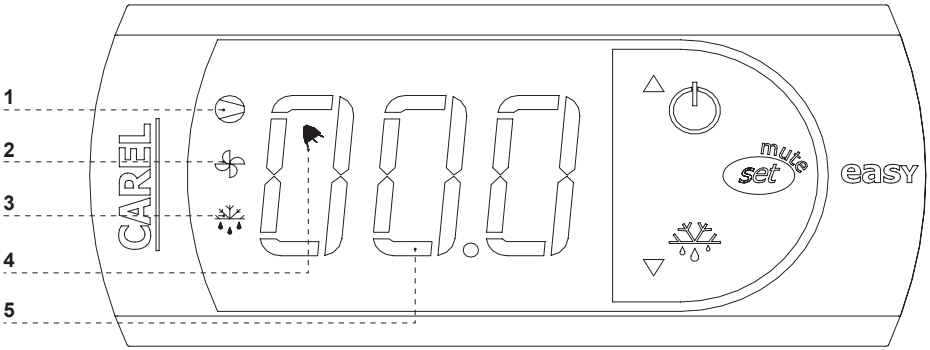
Increase or decrease the temperature - press ⊖ " (or „ ⊕ ") and the panel will display the set temperature. Press "⊖" to reduce the temperature to the desired value. The function will be deactivated automatically after about 3 seconds.

**Manual defrosting –** press button 2 to start the defrosting cycle anytime (independently of the automatic defrosting function); the button is inactive when the temperature is higher than the defrosting end temperature.

It is recommended to turn the unit on/off using only the man switch, and not the switch „ ⊛ " on the thermostat panel. Putting the main switch to ON automatically starts the thermostat!

IMPORTANT: If the main switch is ON and the display shows only two dots, it means that the thermostat is off and should be activated
Press the button „⊛ "on the thermostat panel.

**7.2. CAREL thermostat**
**Fig.16. Carel thermostat panel**




**LEDs ON THE DISPLAY**

**LED 1 on** – Compressor: the symbol is visible when the compressor is running. It is blinking when the compressor start is delayed by the protection procedure. In the continuous mode it blinks in the cycle: two blinks – pause.
**LED 2 on** – Fan: the symbol is visible when the evaporator fans are on. The symbol blinks when the fan start is delayed by an external deactivation or when another procedure is in progress.
**LED 3 on** – Defrosting: the symbol is visible when the defrosting procedure is activated. The symbol blinks when the defrosting is delayed by an external deactivation or when another procedure is in progress.
**LED 4 on** – Alarm: the symbol is visible when an alarm is active
**LED 5 on** – current temperature inside the equipment (with one decimal place)

**NASTAWA ŻĄDANEJ TEMPERATURY**

- press for 1 second : mute set ; the value will be displayed on the screen;

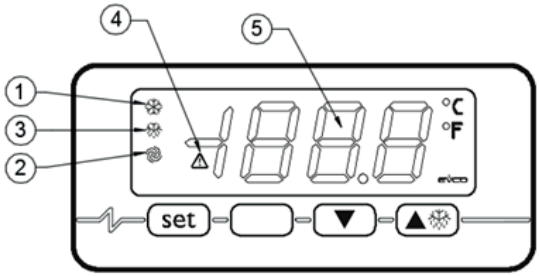
- increase or decrease the value using ▼ and ▲

- press again mute set to confirm the setpoint;

**MANUAL DEFROSTING**

Defrosting is performed automatically. You can start it manually anytime, however, by pressing and holding ▼ for at least 5 seconds. LED 1 is blinking during the manual defrosting.

**9.4. EVCO thermostat**
**Fig. 17 EVCO thermostat panel**




**LEDs ON THE DISPLAY**
**LED 1 -** Compressor: the LED is on when the compressor is running. It blinks when the temperature settings are being changed; compressor delay time resulting from parameters C0, C1, C2 and i7
**LED 2 -** Fan: the LED is on when the evaporator fans are on. The symbol blinks when the fan start is delayed after dripping (parameter F3)
**LED 3 -** Defrosting: the LED is on when the defrosting function is activated. It blinks when the defrosting is required, but the compressor delayed is activated (parameter C0, C1 and C2), when the dripping is in progress (parameter d7), or the coolant heating is in progress (parameter dA)
**LED 4 -** Alarm: the symbol is visible when an alarm is active
**LEDs 5** – current temperature inside the equipment (with one decimal place)

**SET DESIRED TEMPERATURE**
**Keypad lock/unlock**

- Lock:
- Simultaneously press set i ▼ for 2 second. The display will show “Loc”
- Unlock:
- Simultaneously press set i ▼ for 2 second. The display will show “Unl”

**Change temperature settings:**

- Make sure the keypad is unlocked and no procedure is active
- Press set, LED ❄ will start blinking
- Use ▲❄ or ▼ to change the setting (remember the limitations r1, r2 and r3)
- Confirm by pressing set

**MANUAL DEFROSTING**
**Defrosting is performed automatically. However, you can start it manually anytime.**

- Make sure the keypad is unlocked and no procedure is active
- Press ▲❄ for minimum 4 seconds.

**9.5.DIXELL thermostat**
**Fig. 18 DIXELL thermostat panel**


**LEDs ON THE DISPLAY**

**LED 1** - Compressor: the LED is on when the compressor is running. It blinks during the delay countdown
**LED 2** - Fan: the LED is on when the evaporator fans are on. The symbol blinks when the fan start is delayed after defrosting
**LED 3** - Defrosting: the LED is on when the defrosting function is activated. It blinks during the defrosting time countdown
**LED 4** - Alarm: the symbol is visible when an alarm is active
**LEDs 5** – current temperature inside the equipment (with one decimal place)

**SET DESIRED TEMPERATURE**
**Display setpoint**

- Press set to display the setpoint
- Press set or wait 5 seconds to return to the main screen

**Change temperature settings:**

- Press set for about 2 seconds
- The display will show the settings; "°C" or "°F" will start blinking
- Use ▲ or ▼ to change the setting within 10 seconds.
- Press set or wait 10 seconds to save the changes.

**MANUAL DEFROSTING**

Defrosting is performed automatically. However, you can start it manually anytime.

- Press ❄ for minimum 2 seconds.

## 10.STORAGE AND DISPOSAL

Store the equipment in a dry p[lace and on a stable surface, far from heat sources, water, and substances hazardous to the environment. Do not stack. Stacked equipment items are a hazard life and health of people and animals.
After the expiry of its designated, life dispose of the equipment in accordance with local laws and regulations.

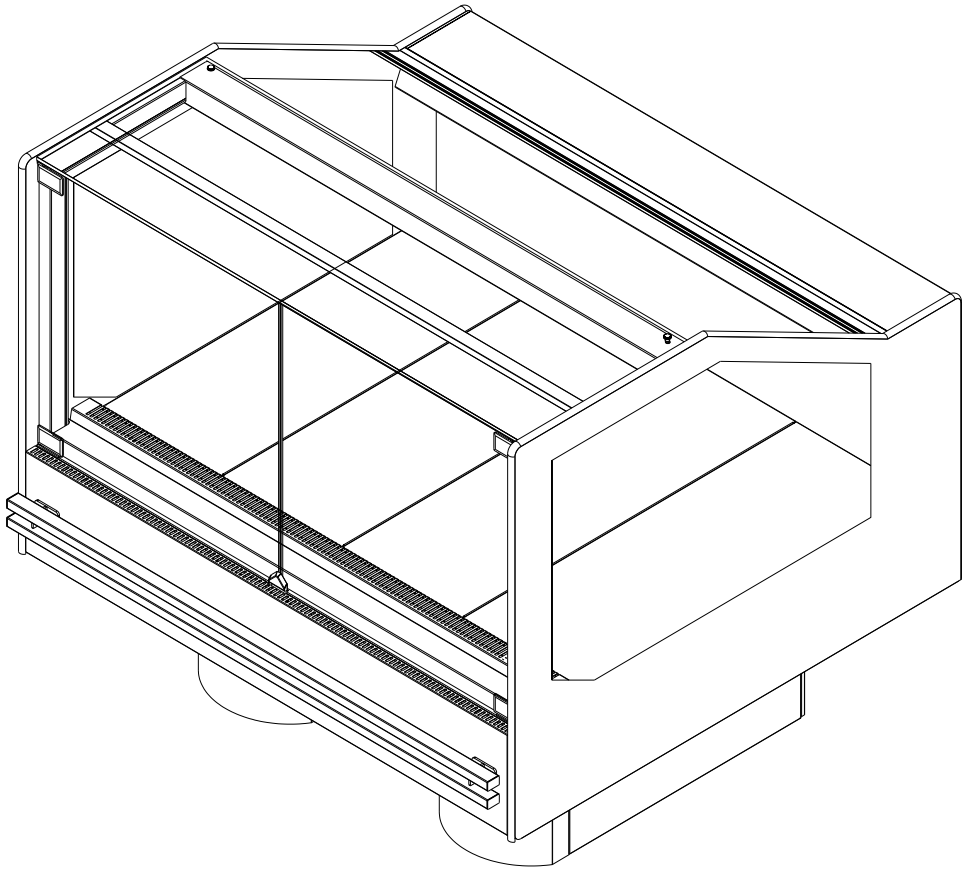
IMPORTANT:
Read carefully before use
Keep for future reference.

**NOTE: IN CASE OF FAILURE TO OBSERVE THE RULES INCLUDED IN THE MANUAL CONCERNING THE CONNECTION AND USE OF THE EQUIPMENT THE MANUFACTURER MAY INVALIDATE THE WARRANTY!!!**

**IGLOO reserves its rights to change the information included in this document without a previous notice.**


**Photos and figures are indicative only and may differ from the equipment actually purchased.**

IGLOO
MORE THAN COOLING



# PROXIMA
# PROXIMA SQR

Refrigerated display cabinets

DT

TECHNICAL DATA

CH006_03

Inox-Bázis Kft., 9090 Pannonhalma, Arany János u. Központi major Tel.: +36 1 788-1828

ORIGINAL INSTRUCTION MANUAL
PLEASE READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

An integral part of this manual is:
"Instructions for use - Refrigeration_freezing equipment_IN0091"

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| CHAPTER NO: 010 | B | | E | | 1st revision DATE: 01.04.2018 |
| CHAPTER: TABLE OF CONTENTS | C | | F | | |



KEY:

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|---|---|
| - | First revision |
| A, B, … | Revision index |
| X | Chapter No consistent with the documentation number |

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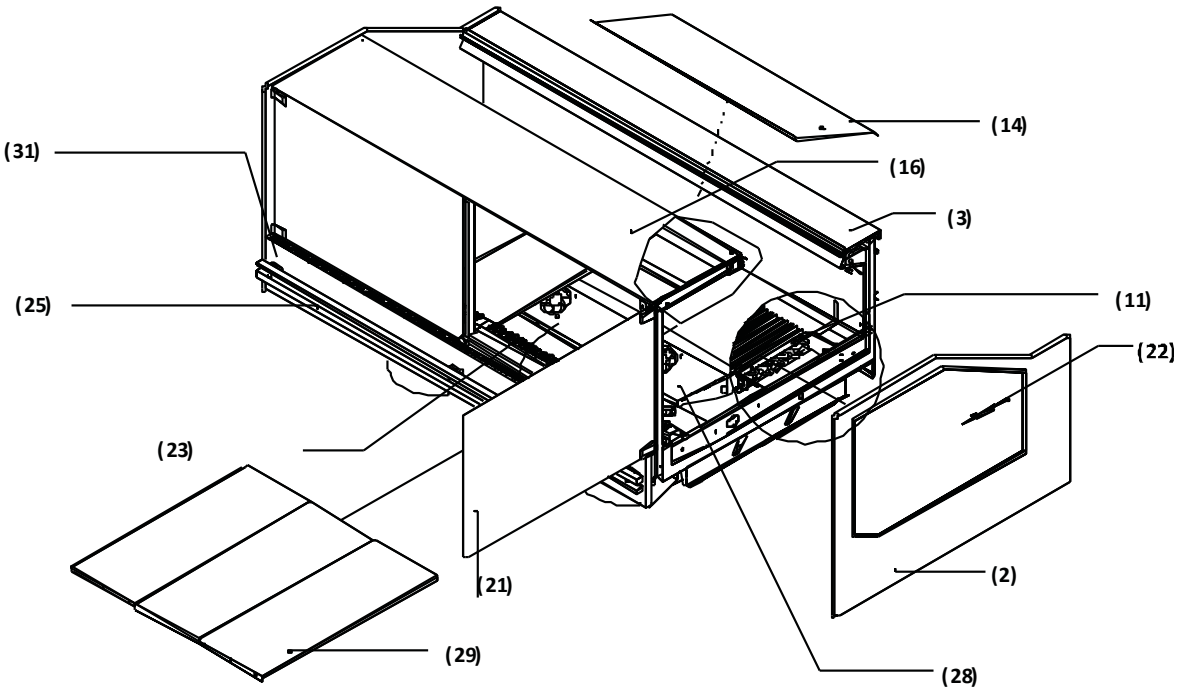
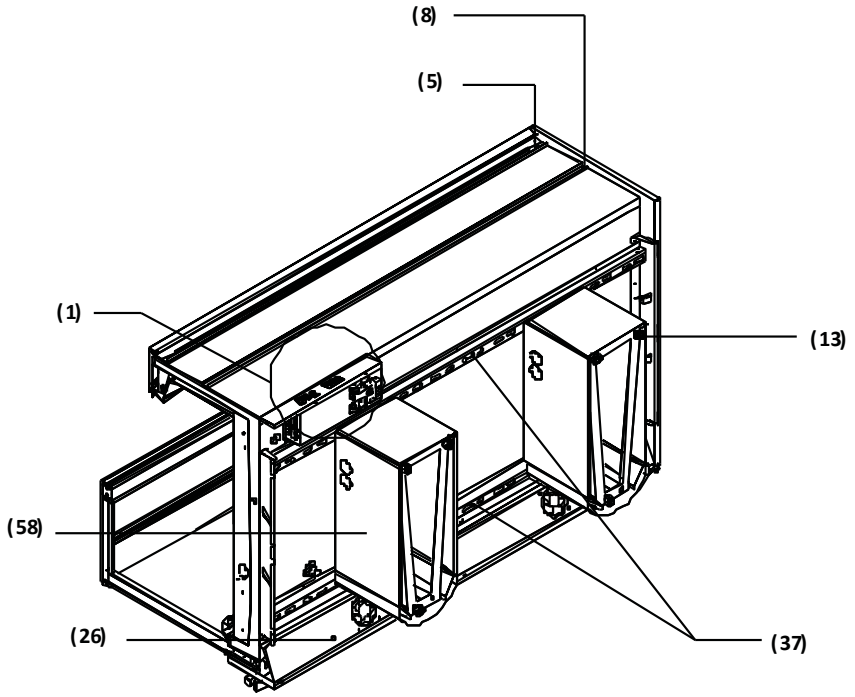
| CHAPTER: GENERAL DESCRIPTION | C | | F | | |



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1 – Unit control panel (main switch/fan switch/lighting switch/thermostat panel switch)

2 – Double-glazed right side with screen printing

3 – Blat roboczy z blachy nierdzewnej

5 – Prowadnica stolików przesuwnych (górna)

8 - Prowadnica stolików przesuwnych (dolna)

11 – Evaporator

13 – Feet for leveling the unit

14 – Plexiglass night blind

16 – Glass shelf on the lamp

21 – Hinged front glass

22 – Maximum loading line (sticker on the side of the unit)

23 - Czerpnia

25 – Odbojnica z profilu nierdzewnego

26 - Inlet

28 – Evaporator fan board

29 – Display shelf

31 – Front panel

37 – Base post guide

58 – Base (base post with spacing adjustment)

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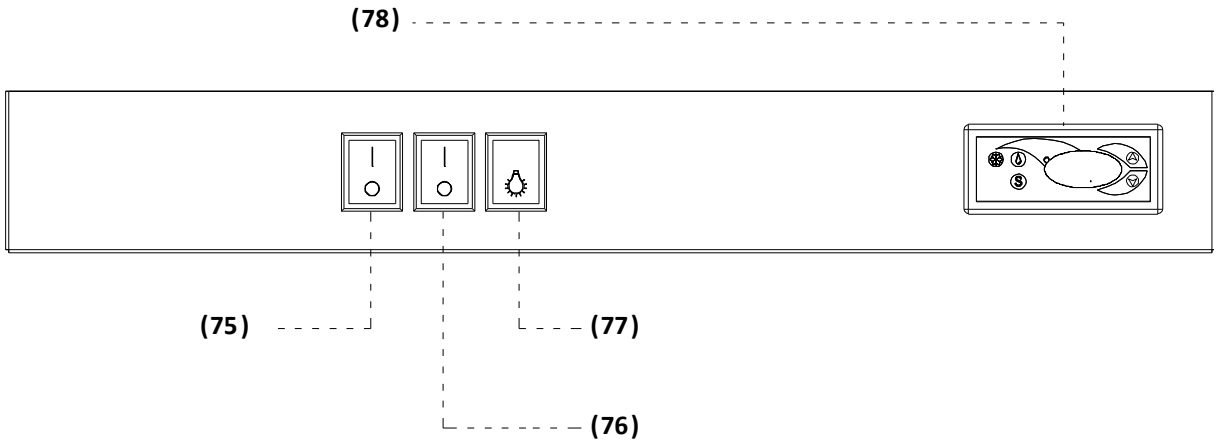
| CHAPTER: DESCRIPTION OF THE CONTROL PANEL | C | | F | | |




75 – Main switch

76 – Front glass blower fan switch

77 – Lighting switch

78 – Thermostat panel (operating details are given in the Instructions for Use)

CAUTION: For information on the location of condensate drainage and refrigeration connections see Chapter 050 "INSTALLATION DIAGRAMS"

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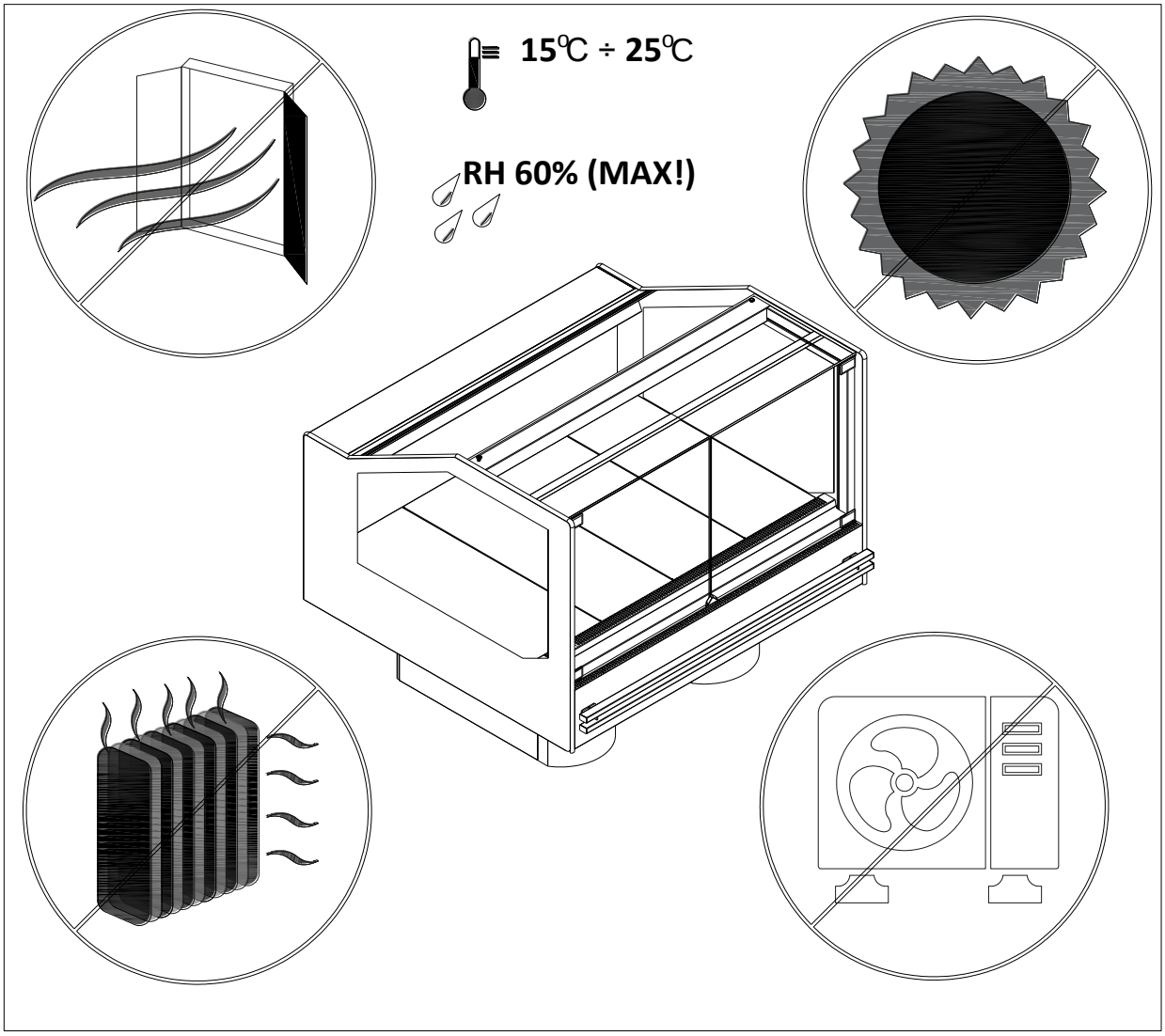

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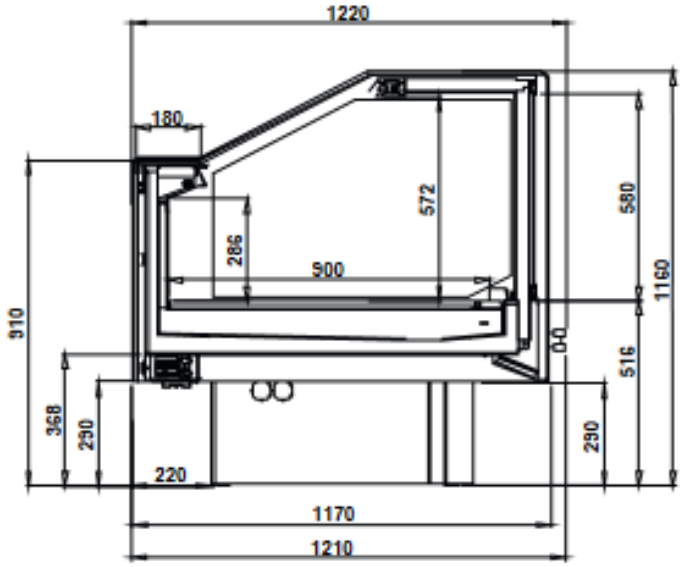


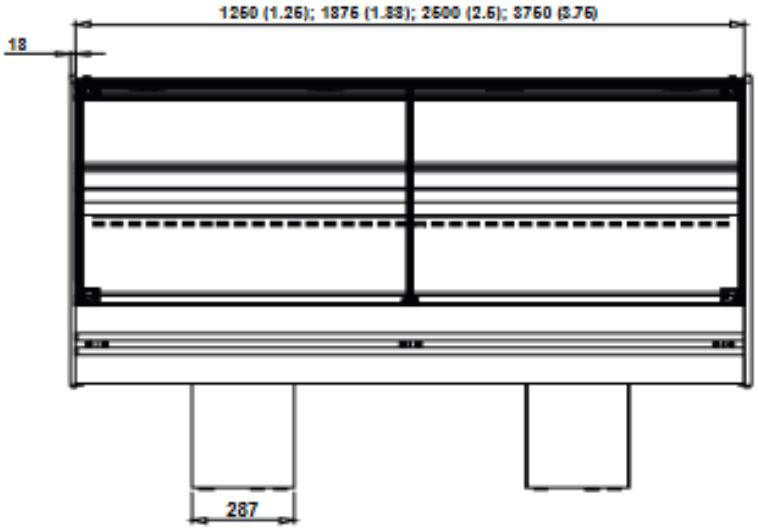

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| Unit type | Rated voltage/frequency [V/Hz] | Rated current [A] | Rated LED lighting power 48 V [W] | Energy consumption [kWh/24 h] | Cooling power demand [W/1 rm] |
|---|---|---|---|---|---|
| 1.25 | 230/50 | 0.5 | 32 | 2.7 | 500 |
| 1.88 | 230/50 | 0.8 | 48 | 3.4 | 500 |
| 2.5 | 230/50 | 1.1 | 64 | 4.8 | 500 |
| 3.75 | 230/50 | 1.5 | 96 | 6.8 | 500 |
| NW 90 | 230/50 | 0.3 | 14 | 2.0 | 500 |

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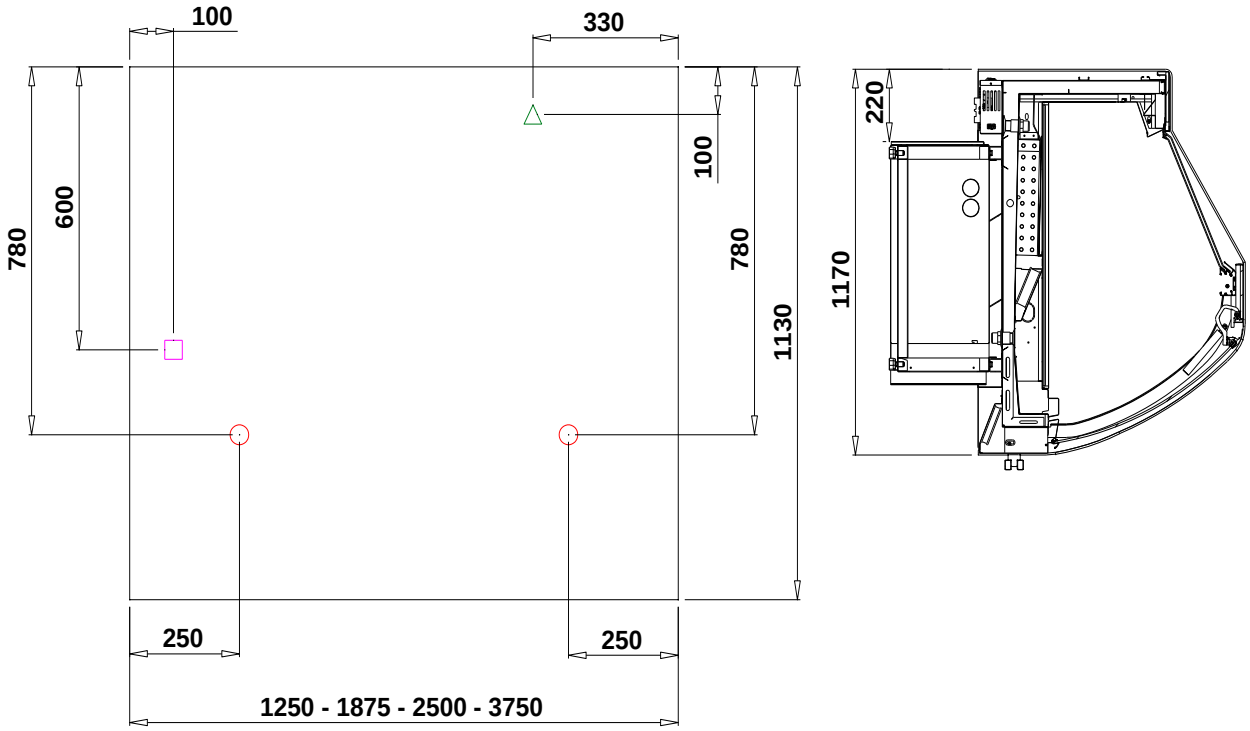
○ *odpływ skroplin/water drain*

□ *przyłącze chłodnicze/refrigerant connection*

△ *skrzynka elektryczna/electric box*



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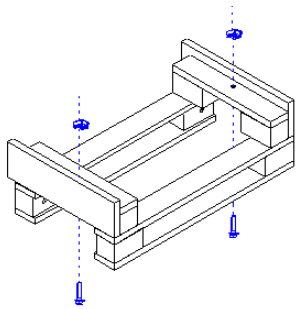
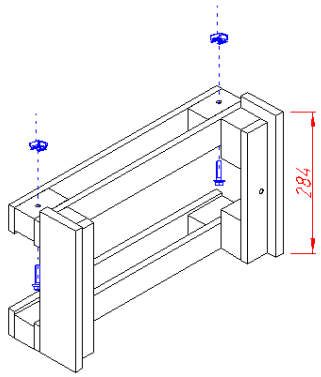
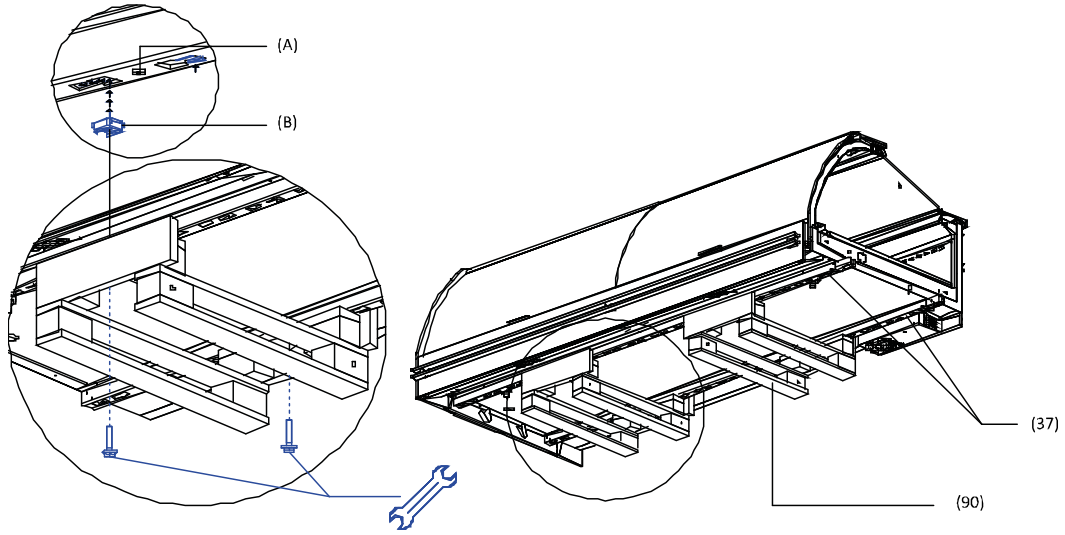
| CHAPTER: TRANSPORT AND UNLOADING | C | | F | | |



PROXIMA pallet – assembled for the transport of the unit. Once the unit has been positioned in its final location, the pallet should be dismounted and the base posts should be mounted on the base guides (see CHAPTER NO. 100).




PROXIMA pallet can be used as a temporary support for the unit when the modules are assembled in line. This is especially helpful if the line is made up of several modules and you want to maintain equal spacing between the base posts. The support must be screwed to the base guide so that the unit stands firmly on the ground. All safety precautions and OHS rules must be observed when working. Rotate the pallet as shown below.




A – This is a marker of the base (base post) placement. For transport, wooden pallets are fixed in this place. Each guide (front and rear) has two markers. Markers indicate where the base posts should be mounted in the standalone unit. With more modules (combined in line), the spacing between the legs can be changed so that the distances between the legs are equal.
B – Cage nut M8
37 – Base (base post) guides
90 – Wooden pallet

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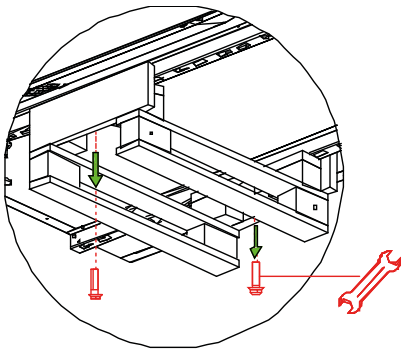
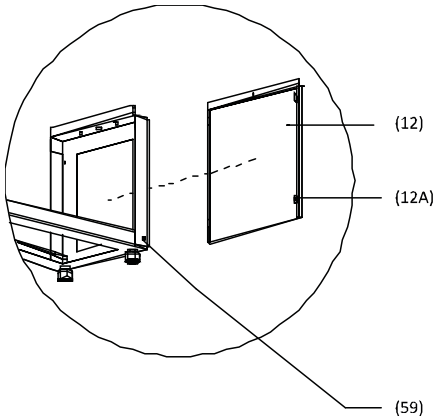
**DISASSEMBLY OF THE WOODEN PALLET**

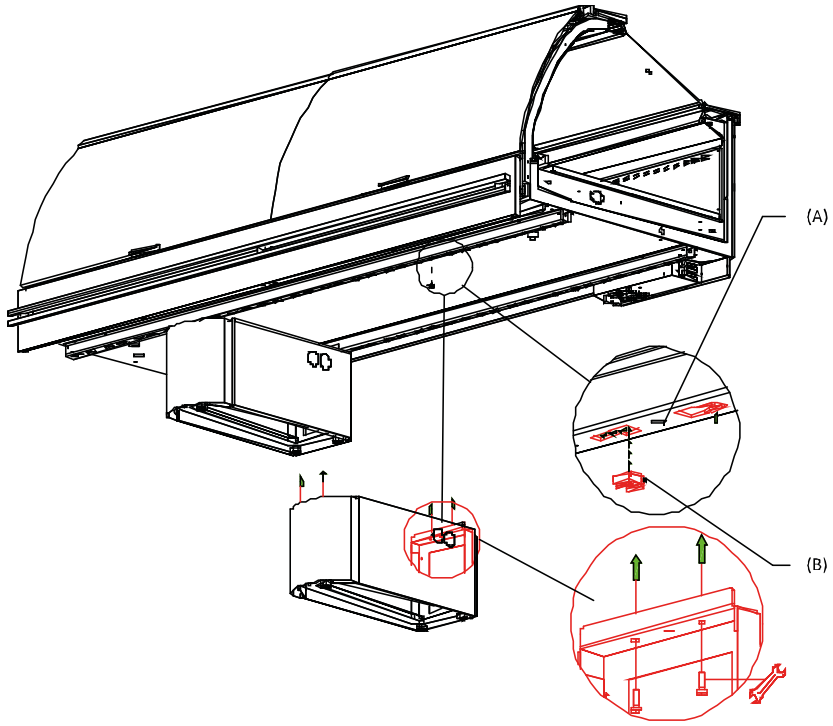


**DISASSEMBLY OF THE BACK FLASHING OF THE BASE**




12 – Back flashing of the base
12A – Hook – to remove the flashing, lift it up slightly and release it from the hooks
59 – Base post body

**SCREWING THE BASE POSTS**




A – Marker on the base guide indicates where to assemble the base post in a standalone unit. In lines made up of several modules, you can measure an equal distance between the bases and move them to the desired position on the rails in the modules.
B – Cage nut M8 to be inserted in guide slots

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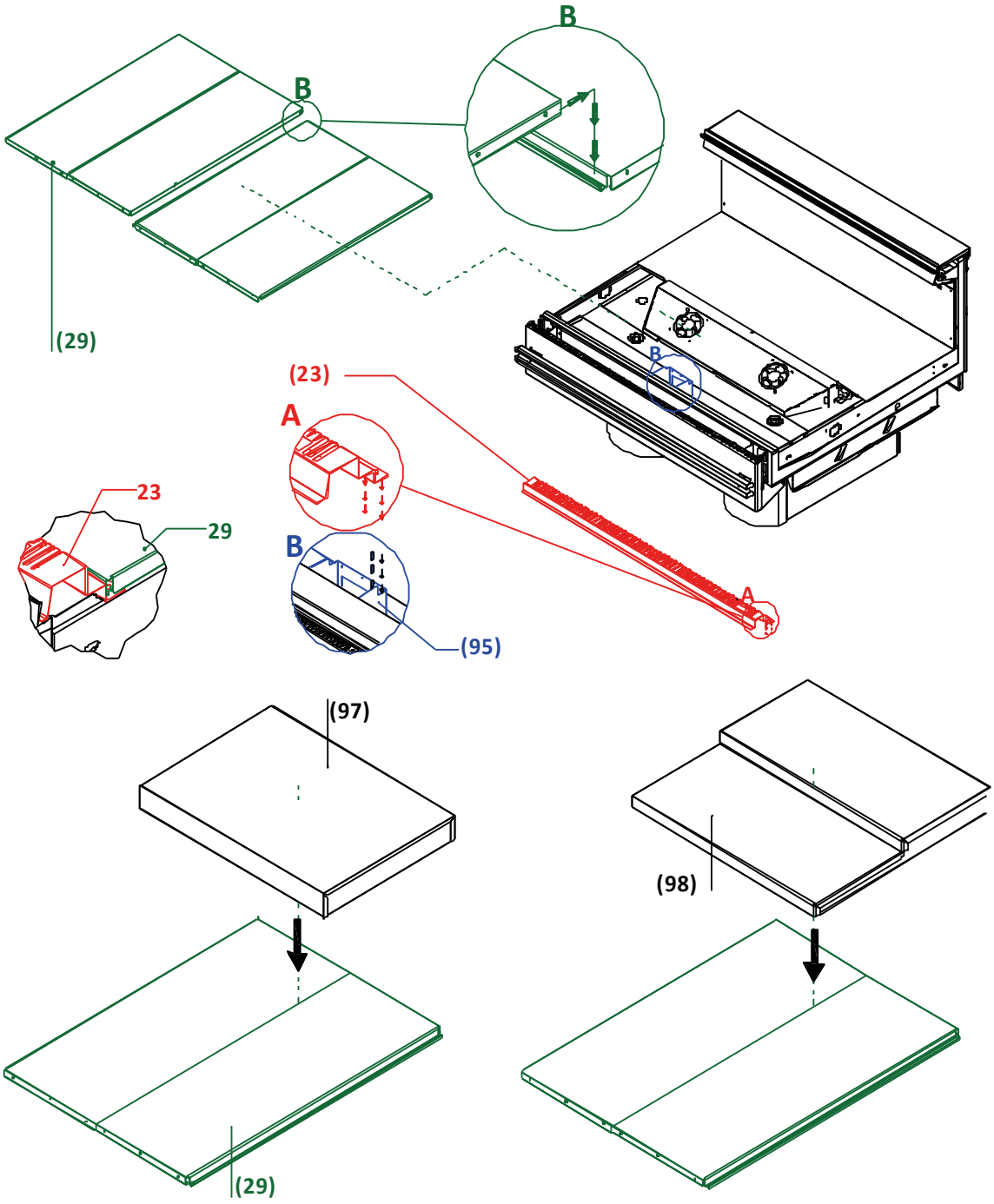


23 - Inlet
29 – Display shelf
95 – Front bracket
97 – 1-step shelf
98 – 2-step shelf

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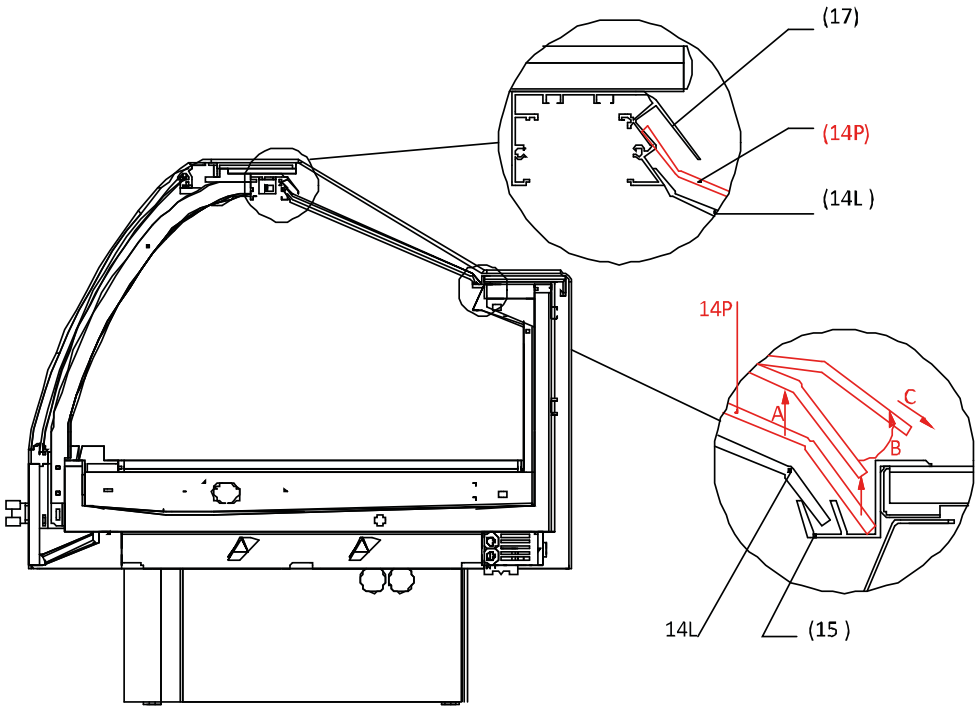
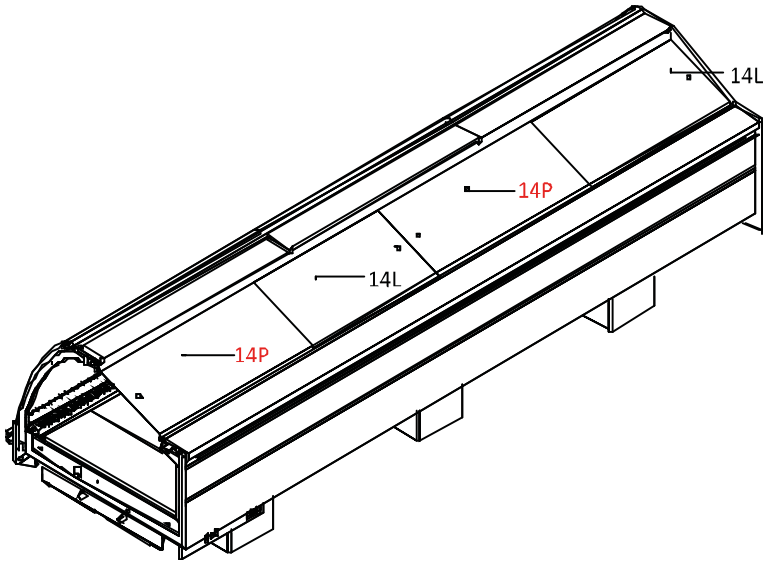
| CHAPTER: NIGHT BLINDS ASSEMBLY | C | | F | | |




14 P – Top night blind (higher) – mounted second
14L – Bottom night blind (lower) – mounted first, before (14P)
15 – Night blind guide (made of aluminum profile)
17 – Back part of the aluminium lamp (masks and protects night blinds from falling out)

Install the night blinds alternately (higher/lower) as shown in the figure. This is to prevent them from blocking when moving.

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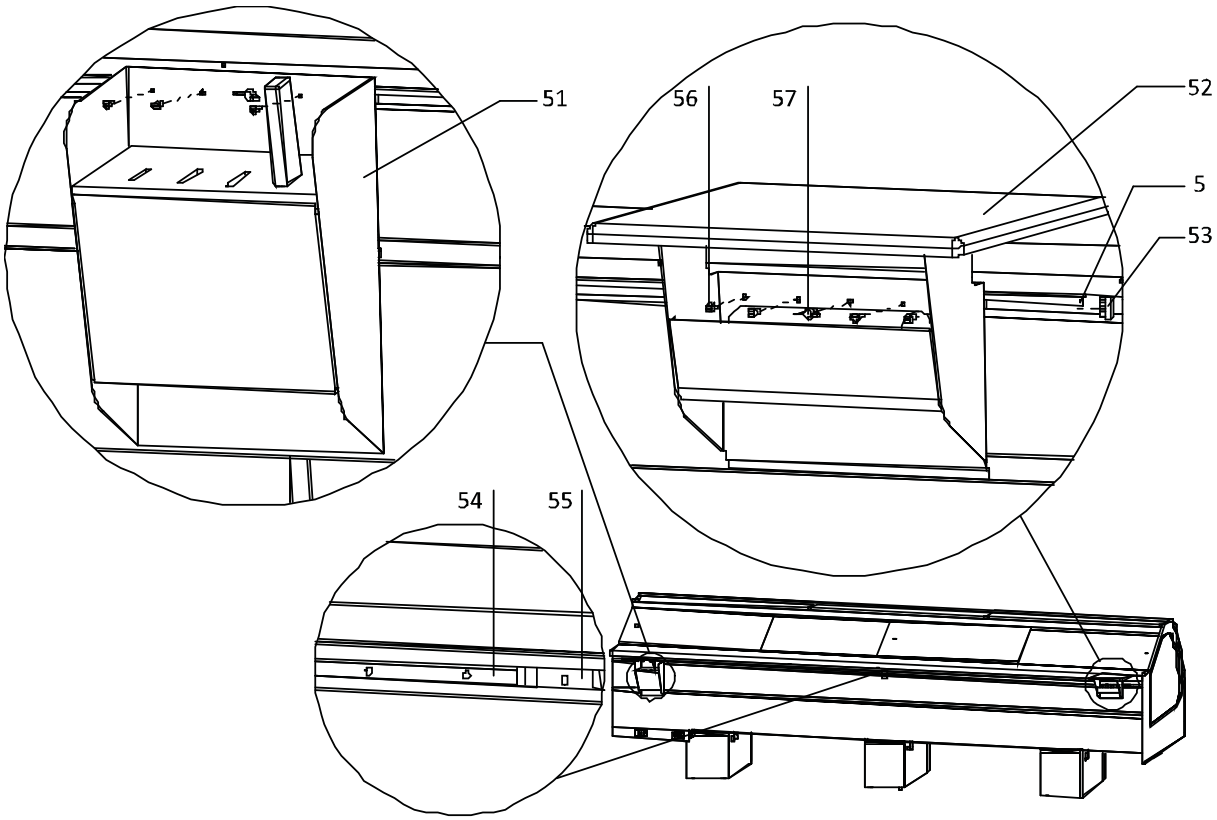
| TYPE: PROXIMA | No. | DATE | # | DATE | |
| DOCUMENTATION NO: CH006_01 | A | | D | | |
| CHAPTER NO: 103 | B | | E | | 1st revision DATE: 01.04.2018 |
| CHAPTER: TABLE ASSEMBLY | C | | F | | |




5 – Table top guide
51 – Table for knives
52 – Table for scale or slicer
53 – Blanking element for the top guide (use it to avoid accidental injury or tearing of clothing during operation)
54 – Teflon cube for screwing the table (longer)
55 – Teflon cube for screwing the table (shorter) – locking table movement
56 – Screw – fixing the table to the guides
57 – Wing screw – locking the table

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|---|---|---|---|---|---|
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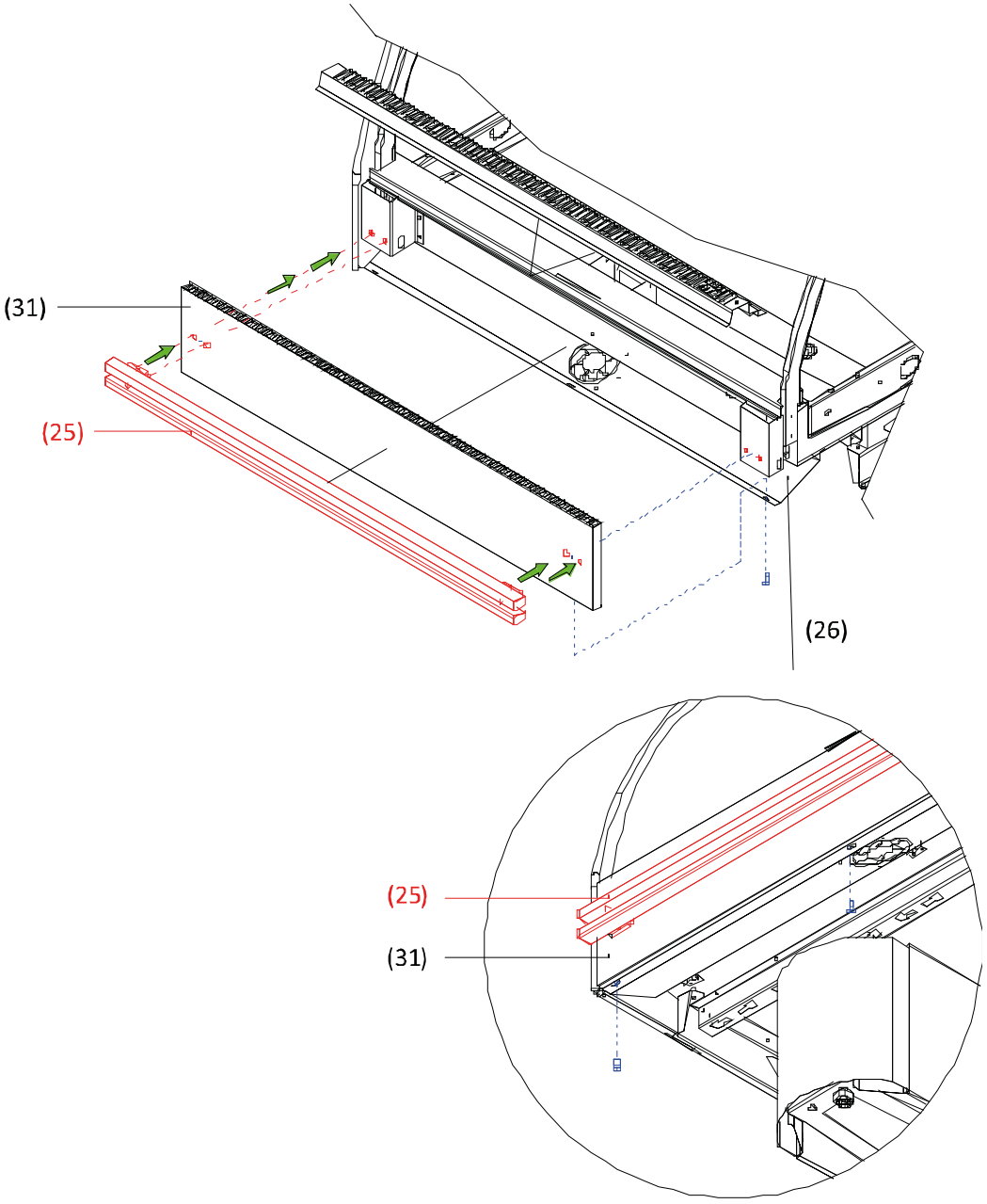
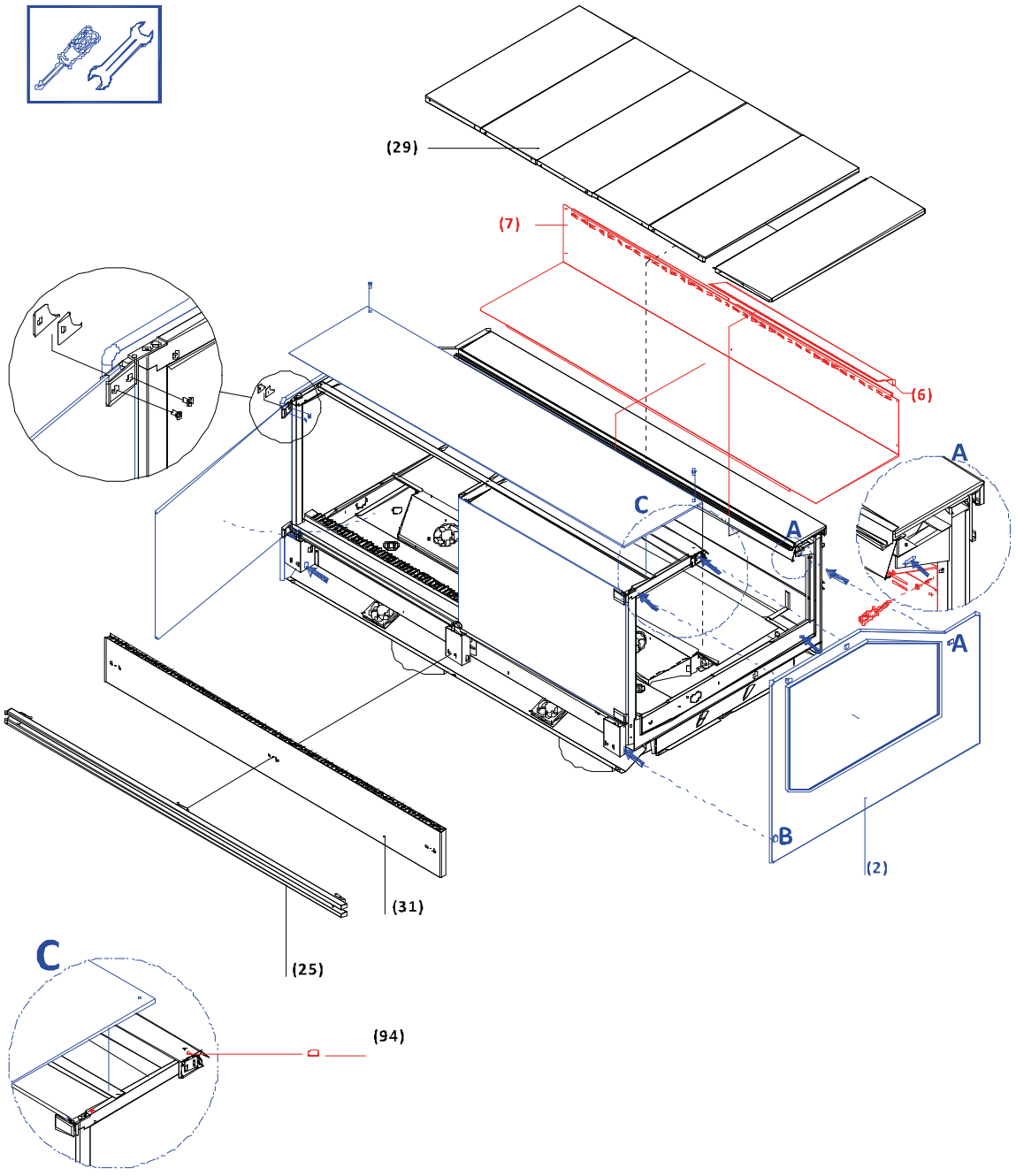
| CHAPTER NO: 104 | B | | E | | 1st revision DATE: 01.04.2018 |
| CHAPTER: ASSEMBLY OF THE FRONT AND FENDER MADE OF A STAINLESS STEEL PROFILE | C | | F | | |




25 – Fender
26 – Glass blower fan
31 - Front

| TECHNICAL DOCUMENTATION – ORIGINAL | REVISION | | | | PAGE: 1/2 |
|---|---|---|---|---|---|
| TYPE: PROXIMA SQR | No. | DATE | # | DATE | |
| DOCUMENTATION NO: CH006_03 | A | | D | | |
| CHAPTER NO: 105 | B | | E | | 1st revision DATE: 01.04.2018 |
| CHAPTER: ASSEMBLY OF GLASS COMPONENTS | C | | F | | |




2 – Glass side
6 – Blower screen
7 – Rear shelf bracket
25 – Display shelves
29 – Display shelves
31 – Front panel
94 - Bumpon – silicone element that prevents glass parts from sliding and provides better adhesion (Ensure not to damage or remove it during operation and maintenance of the unit!)

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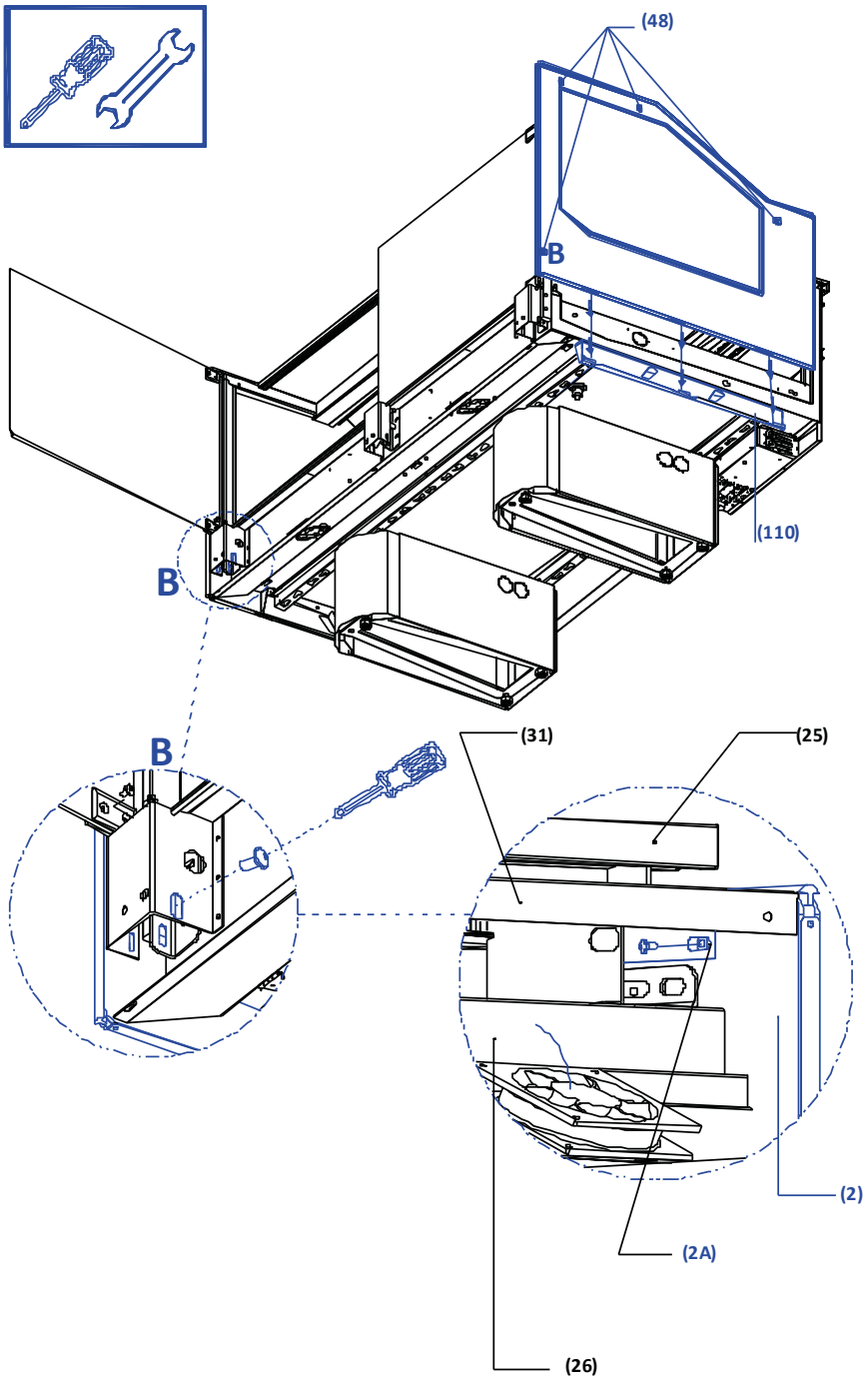
|---|---|---|---|---|---|
| TYPE: PROXIMA SQR | No. | DATE | # | DATE | |
| DOCUMENTATION NO: CH006_03 | A | | D | | |
| CHAPTER NO: 105 | B | | E | | 1st revision DATE: 01.04.2018 |
| CHAPTER: ASSEMBLY OF GLASS COMPONENTS | C | | F | | |




2 – Glass side
2A – Bottom fixing of the glass side – if you want to replace the glass side in the unit, you have to remove parts (25) and (31)
25 – Fender made of a stainless steel profile
26 – Glass blower fan board
31 – Front panel
48 – Holes for fixing the glass sides (located on the inner side)
110 – Side holder

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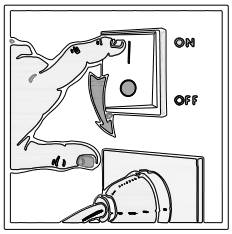
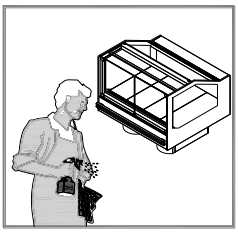
|---|---|---|---|---|---|
| TYPE: PROXIMA SQR | No. | DATE | No. | DATE | |
| DOCUMENTATION NO: CH006_03 | A | | D | | |
| CHAPTER NO: 120 | B | | E | | 1st revision DATE: 01.04.2018 |
| CHAPTER: MAINTENANCE – GENERAL CONDITIONS | C | | F | | |

Keep the unit clean and service periodically.

Protect the electric installation against shock or water damage

Do not use any sharp objects to remove dirt!



CAUTION! Turn off the light switches and the main switch on the unit control panel. Disconnect the unit from the power socket! Do not use water jets while washing the appliance!

**CAUTION! ELECTRICAL DIAGRAM OF THE DEVICE**

Each device sent to the Customer is equipped with a paper circuit diagram. The protected circuit diagram is located near the device's control box and is intended for authorized service only.