

USER MANUAL for refrigerated top counter

LOIRA COLD



Dear customer,

The refrigerated display case that you bought fulfils the highest requirements imposed on refrigerating equipment of such type.

The display case is suitable for selling eatables and drinks either in a self-service mode, or with the help of an attendant. Please read this user manual carefully before installing and using of the appliance.

Important notice: This counter is not intended for cooling-down of displayed goods, but to maintain the temperature of properly chilled goods. Further the counter is designed for ambient temperature up to +25 °C and ambient humidity of 60% R.H.

1) MANIPULATION AND HANDLING WITH COUNTER

The display case is wrapped in protective polyethylene sheeting in order to prevent accidental damage. Remove the sheeting only after the refrigerated display case is installed.

Be careful during transporting, removing or any other handling activity. Avoid unnecessary tilting. Keep the display case still minimally half an hour after any handling or manipulation. **Any handling or manipulation can be made only after the showcase was powered off.**

2) REFRIGERATED DISPLAY CASE INSTALLATION

The display case is to be installed on a dry and smooth board. Be sure the board is solid and straight. The display case is inserted on the board from the side of the attendant; therefore, the customer can only see the display case without its bottom part with the motor compressor unit.

Be sure that there is a sufficient space (at least of 10 cm) around the air vents of the motor compressor unit for keeping air circulation on. The air circulation has to be ensured in order not to restrict the ventilation, reduce the output of the cooling unit and inflict damage on the cooling unit.

The display case shall not be placed in the vicinity of a thermal source and shall not be directly exposed to the sun – in these cases the service life of the product is significantly reduced and also the manufacturer cannot guarantee that the pre-set inner temperature will hold.

Is necessary to check with qualified personnel whether the supplied socket 203 V fulfil valid regulations of your country and is in perfect state (no damage during transportation/manipulation has been occurred).

Now, after correct installation, remove the polyethylene sheeting.

3) PREPARATORY WORK BEFORE COMMISSIONING

Clean the display case thoroughly before inserting food products and commissioning - see the chapter "Cleaning and maintenance".

We recommend that the source of power (socket) should be inspected by an expert electrician before connecting the display case to the mains electricity.

4) OPERATION

The panel with operating elements is placed on the left side of the case from service side.



To start up the unit press Main On-Off button. The showcases start to cool according to pre-set temperature in the electronic Control unit. To switch on the lightening of the case – please press the white

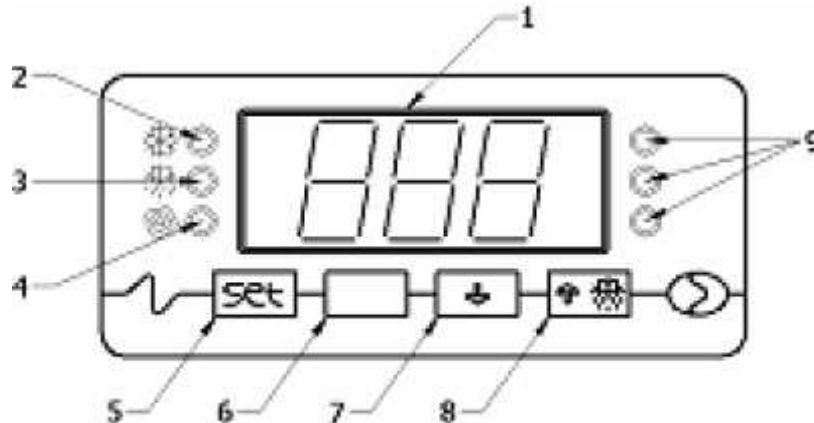
Food products should be loaded into the viewing space only after complete cooling. The display case is equipped with lighting (to be turned on with the second switch) to enhance the standard of the selling process.

After finishing selling, take out all the remaining food products (pastry) and keep them in refrigerators. Turn off the lighting and the "ON-OFF" main switch for cooling. The process of collection, off take and disposal of condensate from an evaporator is automatic. To achieve a malfunction-free operation, the refrigerated display case is equipped with automatic defrosting (thawing) pre-set by the manufacturer – an electronic control unit ensures regular defrosting of the evaporator.

Description of the control unit:

1. Display
2. pilot-light of cooling
3. pilot-light of defrosting
4. pilot-light of evaporator fan
5. Setting button
6. Dummy - no function
7. Button to set a lower value
8. Button to set higher values and manually start the defrosting
9. Dummy - no function

In standby mode the control unit displays the current temperature of the cooling area. During defrosting, the measured temperature get blocked (remains the same). After the completion, the measuring of the temperature goes back to normal mode.



Control the set temperature of the cooling area

Press the button **Set** the value is displayed on the display for about 15 seconds.

How to change the set temperature of the cooling area

To increase the temperature: Press and release the button **Set** the set temperature will display and press the button **↑** to set the desired value and then press and release the button **Set**.

To reduce the temperature: Press and release the button  the set temperature will display and press the button  to set the desired value and then press and release the button .

Evaporator defrosting

The evaporator defrosting is made automatic in times interval pres-set in controller.

To activate manual defrost process

Hold the button  for 4 seconds. If after this time the pilot-light of defrosting lights up, defrost is activated. Defrost will not start if there is not sufficient minimum temperature on the evaporator.

Temperature alarms:

The control unit measures the time during which there is too high or too low temperature in a cooling area.

If this period exceeds the limit, it will alert you to the fact by flashing symbol **AL** (low temperature) or **AH** (high temperature). Wants to cancel the alarm, turn off the device from the power. Manual activation of defrosting

Press and hold the button  for 4 seconds. If the indicator of defrosting is lit up after this period, thawing (defrosting) is activated. Defrosting is not activated until a sufficient minimal temperature is reached in the evaporator.

TROUBLESHOOTING

Temperature alarm:

The control unit measures the period during which there is an excessively high or low temperature in the cooling space. If this period exceeds a pre-set limit, you are warned by blinking digits on the display. If you want to stop the blinking, switch the display case off and on.

Symbol	Type of failure	Correction	Influence on device
PR 1	Sensor failure of temperature in cooling area	Turn off and turn on The device. If the alarm remains on, call A service company.	Cooling will be switched on And off at regular intervals.
PR 2	Sensor failure of evaporator temperature	Turn off and turn on The device. If the alarm remains on, call A service company.	Cooling will be switched on And off at regular intervals.

CORRECT LOADING of THE CASE with GOODS to SELL

When the showcase is started, the evaporator will start cooling and the fans circulate the cooled air through the exhaust honey comb to the top of case and the cooled air is evenly distributed over all shelves in the case towards the top of counter. After that the warm air is sucked through the front grid located at the bottom of the display area and distributed back to the evaporator, where it is cooled for further circulation.

FRONT GRID AND BACK EXHAUST HONEYCOMB OPENINGS MUST BE ALWAYS KEPT UNOBSTRUCTED, SO AVOID PLACING GOODS OR SUBJECTS IN FRONT OF IT.

The cabinet is equipped with an automatic defrosting device (the electronic control unit ensures the regular evaporator defrosting. Condensation water is drained out of the evaporator into the evaporating basin. Then the condensate evaporates into space thanks to hot air from aggregate and copper snake. This is done automatically.

When placing goods in the cabinet, follow these instruction:

- ensure that there is at least 10 mm space between the displayed products
- Goods have not be placed on the front intake grid and the rear outlet grids
- Goods have not exceed the edge of shelves

Improper placing of the goods will slow the air circulation and increase the temperature of the goods in the cabinet.

The showcase is not intended for cooling down the goods, but to maintain them at the temperature at which they are placed in the case for its presentation. The goods must be properly chilled in advance. Goods with a temperature higher than the temperature inside the cabinet must not be placed into the cabinet.

5) CLEANING AND MAINTENANCE

Clean the display case only after removing power! The display case is made of **stainless steel specially designed for contact with food products**; therefore it does not require extra maintenance. Do not use abrasive and corrosive cleaning agents – keep the display case clean by using a wet rag with detergents and cleaning agents designed for stainless steel and glass.

Clean the inner space of the display case from the side of the attendant. Keep the supply cord in a perfect state – if any damage should occur, ask specialists to replace the cord. **It is of extreme importance to keep the condenser perfectly clean** (the condenser might be compared to a car radiator), because it gets clogged with impurities and dust from the surrounding environment very fast. Use a brush and vacuum cleaner for the cleaning process – the best method is to blow the condenser with compressed air. Do not use hard or sharp objects which might damage or destroy the condenser or the display case during cleaning. Apply the cleaning in regular intervals (minimally once per month). The manufacturer/seller will not be responsible for any damage resulting from unqualified handling. The manufacturer/seller is also not responsible for any damage resulting from using the equipment for other purposes than it is manufactured and intended for.