Security

- Read this manual thoroughly before installing the unit.
- Do not allow your unit to be serviced by a non-qualified person.
- Whenever possible the installation should be by an authorized service technician.
- Follow the instructions from below - Electrical Installation.
- Inspect the condition of the electrical connections regularly.

Installation Location

- While unpacking avoid inclining the refrigerator at any more than a 35 degree angle.
- The refrigerator has been designed to operate in areas with maximum temperature 32°C / 90°F and relative humidity maximum 65%. Nevertheless, the unit must not be exposed to sources of heat, such as stoves, ovens, hothouses, hot walls or solar radiation.
- The appliance should be installed in a location with sufficient ventilation.
- It must stay a minimum distance of 4 inches from side and back walls. The refrigerator must be perfectly level to avoid damages to refrigeration unit and the door.
- The refrigerator must not be installed in narrow corridors, only in easy access locations.

Electrical Installation

To protect the unit use a load center of 15 amp / 120 volts or 25 amp / 127 volts.
If not possible to obtain suitable nominal voltage with a variation ± 10%, install a voltage regulator of 1000 VA.
Connect the cooler to a dedicated electrical circuit.
The automatic defrost system is regulated by electronic control set by the factory to 3 defrosts daily.
The installation will only be applied if the outlet has the exit nominal voltage with a tolerance of ± 10%.

Shelf Assembly

1. Unpack the shelves and clips
2. Insert the clips in correct and matching positions – each shelf required 4 clips.
3. When clips are correctly installed, lay shelf on top of them.

Operation

The cooler’s micro-processed controller is responsible for the following functions:

COMPRESSOR COMMAND
The controller turns off the compressor when the internal temperature reaches the coldest adjustment point, then restarts the compressor when the internal temperature reaches the warmest adjustment point. This process extends the useful life of the compressor. In the case of a sensor flaw the compressor will stop immediately and an alert will be shown in the temperature indicator (consult temperature indicator alerts below.)

DEFROST
The controller executes automatically a cycle defrost after connecting the unit and after every 8 hours of operation. The purpose of cycle defrost when the refrigerator is connected is to avoid the excessive accumulation of ice in energy supply flow, the controller restart the operation time when being disabled a energy supply flaw.

When losing the controller the registration of lapsed time immediately will execute a defrost cycle, 20 minutes after defrost cycle has concluded system will remain disabled. In case of defrost sensor failure an alert will be shown by the temperature indicator.

TEMPERATURE INDICATOR ALERT

CHART OF ALERT DISPLAYS

<table>
<thead>
<tr>
<th>ALERT</th>
<th>MESSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED turned off</td>
<td>Compressor and defrost resister disabled</td>
</tr>
<tr>
<td>LED turned on</td>
<td>Defrost cycle in process</td>
</tr>
<tr>
<td>LED blinking</td>
<td>Compressor in process</td>
</tr>
<tr>
<td>Alert “88”</td>
<td>Internal temperature less than 50°F or cabinet sensor damaged (opened)</td>
</tr>
<tr>
<td>Alert “99” blinking</td>
<td>Internal temperature more than 50°F or cabinet sensor damaged (short-circuit)</td>
</tr>
<tr>
<td>Alert “00”</td>
<td>Defrost sensor damaged</td>
</tr>
</tbody>
</table>
Before Loading

Allow the refrigerator to work at least one hour.

It is recommended to load the refrigerator at night – the first load requires 15 hours for the bottles to reach refrigeration temperature. When recharging (considering 50% of bottles), it will take the unit 10 hours.

Observations

1. The refrigerator was designed to be loaded with glass bottles.
2. Under environmental conditions with air less than 55% humidity, the formation of vapor on surface of the bottles will be less, even loading the refrigerator correctly.
3. After closing the door, wait approximately 30 seconds to open it again, to allow the unit to compensate for the difference of external and internal pressure.
4. To assure the stability of the electronic control, avoid installing the refrigerator near appliances.

Defrost and Cleaning

This refrigerator is equipped with an evaporator with fins and the defrost is electric and automatically regulated by an electronic controller. The defrosted water goes to cabinet receptical.

INTERNAL CLEANING
Clean the refrigerator using a cloth with a neutral soap on it. After cleaning the refrigerator, dry it carefully with a separate cloth.

EXTERNAL CLEANING
NEVER use detergents, abrasives, sponges or steel brushes.

Changing Lamps

Fluorescent lamp luminous panel
1. Remove the screws located on front cover and the screws located in the back of luminous panel.
2. Remove the front cover.
3. Remove the luminous panel.
4. Hold the lamp and remove it from support.
5. Substitute it for a new lamp and confirm the lamp operation.
6. Reinstall the cover of the front panel and install the screws again.

Horizontal Green lamp of the Internal Cabinet
1. Remove the lamp.
2. Hold the lamp and remove it from support.
3. Replace it with a new green lamp.
4. It makes a verification of operation.

The inner lamp (green) and outside lamp count on Safe-Shield (Plastic Protection).
### Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Inspect</th>
<th>Possible causes</th>
<th>Procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooler does not work</strong></td>
<td>Temperature indicator unlit</td>
<td>Shortage of current or main switch is out</td>
<td>Check if the main switch has power, check the fuses or automatic breaker, if they are in order remove the product</td>
</tr>
<tr>
<td></td>
<td>Temperature indicator power on indicating the temperature but the lamps are without energy</td>
<td>Low current</td>
<td>If the electric installation is in order, install a voltage automatic regulator with saturated nucleus not smaller than 1000 VA</td>
</tr>
<tr>
<td></td>
<td>Temperature indicator power on indicating the temperature of the product</td>
<td>High current</td>
<td>Install a voltage automatic regulator with saturated nucleus not smaller than 1000 VA</td>
</tr>
<tr>
<td><strong>Temperature too warm</strong></td>
<td>Even with infrequent door opening the bottles do not reach the refrigeration temperature</td>
<td>Excess of bottles or inappropriate distribution</td>
<td>Distribute the bottles again removing excessive quantities</td>
</tr>
<tr>
<td></td>
<td>Product does not reach cold temperatures</td>
<td>Frequent door opening</td>
<td>Avoid unnecessary opening of doors.</td>
</tr>
<tr>
<td></td>
<td>Even with little frequency of opening the door and the correct distribution of bottles, they do not reach refrigeration temperature</td>
<td>Incorrect installation</td>
<td>See item “Installation”</td>
</tr>
<tr>
<td><strong>Cooler too noisy</strong></td>
<td>The cooler is noisy after being on for some time.</td>
<td>Incorrect installation</td>
<td>See item “Installation”</td>
</tr>
<tr>
<td></td>
<td>After a period of being out of operation, the cooler is noisy when turned back on</td>
<td>This is a normal reaction after the cooler has not been used in some time</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The refrigerator makes noise when opening door</td>
<td>This is a normal situation caused by the short suction of water by the internal pressure of the refrigerator</td>
<td></td>
</tr>
</tbody>
</table>