

00701*

Instruction Manual

Pastry Display Cases

Models: JMRGGP series



JMRWGGP



JMRTGGP

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 **IGLOO**
REFRIGERATION LTD.



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1 UNLOADING

The unit should be transported in the vertical position and properly secured and packed.

2 PROPERTIES OF THE UNIT

2.1. Purpose

“JMRTGGP and JMRWGGP” Dual service refrigerated open display merchandisers are universal cooling devices aimed to display deli, bakery, coffee shop, and market merchandise. Its glass-enclosed top is perfect for holding desserts, bagels and breads, while its lower self-service bin is ideal for grab-and-go items like beverages in temperature between +1°C and +4°C with ambient temperature between +15°C and +25°C and relative air humidity up to 60%, depending on the environment of the unit location.

2.2. Description of the unit

“JMRTGGP” and “JMRWGGP” display cases have dynamic cooling and independent temperature control for top and bottom. The units are equipped with automatic condensate evaporation and automatic defrosting.

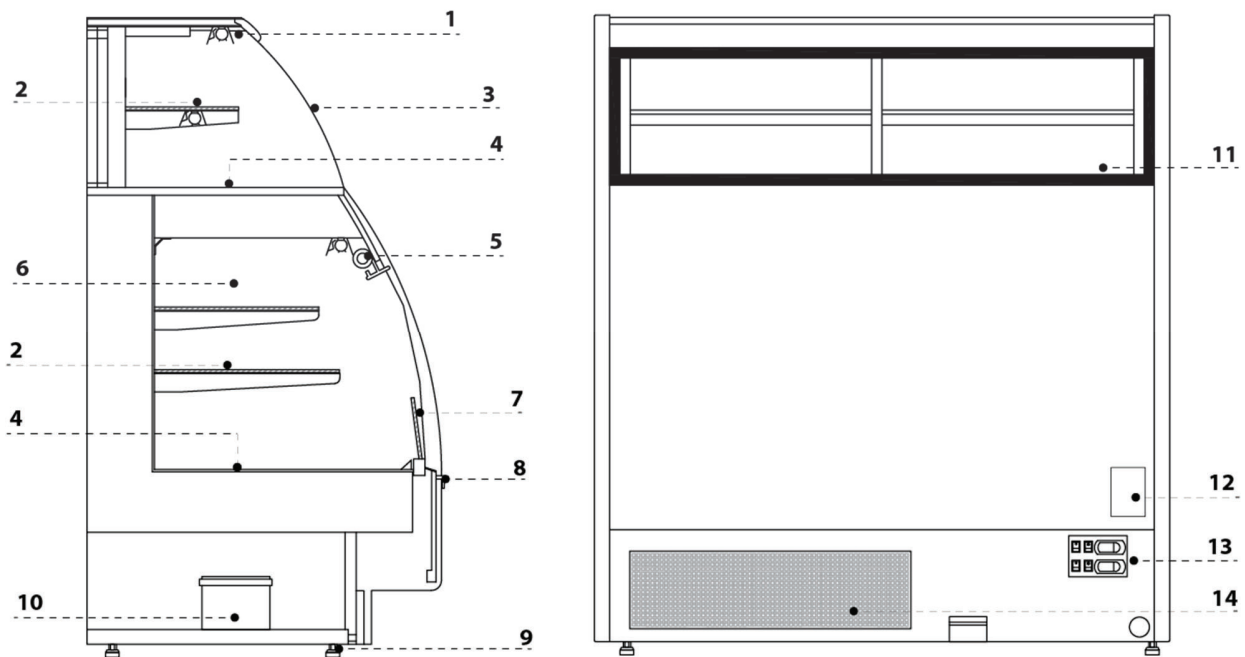
The display parts of the unit are glass shelves on the inner frame and bottom shelves made of stainless steel.

Our equipment is manufactured in accordance to modern technologies and has all certificates required by law.

The description in this box signifies important information for user security and for proper operation of the device.



Figure 1 “JMRTGGP” Overview



- | | |
|--|---|
| 1 – LED lamp | 8 – Night curtain hook |
| 2 – Display glass shelf | 9 – Leveling legs |
| 3 – Openable front glass on top display unit | 10 – Compressor |
| 4 – Bottom stainless steel display shelf Curved, | 11 – Sliding door |
| 5 – Night curtain | 12 – Serial plate |
| 6 – Mirror finished side | 13 – Control panel (thermostat, switches) |
| 7 – Front low glass | 14 – Condenser cover (DO NOT BLOCK air louver!!!) |

2.3. Technical data

Table 1 Technical data

Model	Voltage [V/Hz/Ph]	Rated Current[A]	Max glass shelf load [lbs/kg]	Weight [lbs/kg]
JMRTGGP4/JMRWGGP4*	115/60/1	16 (max.fuse:20)	22/10	309/140

* **JMRWGGP4**: Wooden finished unit, Curved base. **JMRTGGP4**: Painted enamel finished unit, Straight base

3. PREPARING THE DEVICE FOR START UP

The unit must be properly installed and located in accordance with the installation instructions before it is used.

3.1. Installation requirements

- Always use a dedicated circuit with the amperage stated on the unit.
- Plug into an outlet designed for the plug.
- Do not overload the circuit.
- Do not use extension cords.
- Never use adapters.
- Never plug in more than one unit per electric circuit.
- If in doubt, call an electrician.

IGLOO will not warranty any equipment that is connected to an extension cord or an adapter plug.

The equipment may be turned on after confirmation of the fire protection efficiency with results of measures performed according to binding regulations!

■ NEMA Plugs

IGLOO refrigeration uses this type of plug on this unit. If you do not have the right outlet have a certified electrician install the correct power source.



115/60/1
NEMA-5-20R

3.2. Unit Location

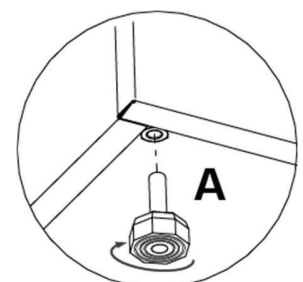
- Install the unit on a strong and leveled surface.
- To ensure proper operation the unit must be leveled from front to back and left to right.
- Unit may malfunction if improperly leveled.
- Be sure there is sufficient ventilation around the entire unit.
- Select a location away from heat and moisture generating equipment.
- Avoid installation in a high ambient or humid location.
- High ambient temperatures will cause the compressor to overwork.
- Humidity may cause rust, condensation around glass or stainless steel and decrease the efficiency of the unit.

3.3. Connection and start-up

- Remove cardboard angles and protective foil.
- Place the unit on an even and hard base. Then level the unit with the leveling legs. (Figure 2)

Figure 2 Leveling legs

A – Screw the leg in nuts



- The equipment should be cleaned right after unpacking and before turning it on. The unit should be cleaned with warm water not exceeding 40°C with a neutral detergent. For washing and cleaning the equipment, it

is prohibited to use products containing chlorine and sodium varieties, which destroy the protective layer and components of the equipment! Any residue of adhesives or silicone on metal elements should be removed only with extraction naphtha (not applicable to items made of plastic). Do not use other organic solvents.

When cleaning the unit, do not use water jet. The unit should be cleaned with a moist cloth.

After installation of the equipment at the destination location it should be left to rest for at least 2 hours before turning it on (for devices with built-in compressor) to set the level of refrigerant in order to prevent problems with the start up.

WARNING: Keep the cooling circuit from damage!

- Turn on the main switch. (Figure 6/1)
- The temperature on the thermostat control panel is PRE-SET. (Figure 6/3)
- Turn on the light switch. (Figure 6/2)

Figure 3 Hook height regulation

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

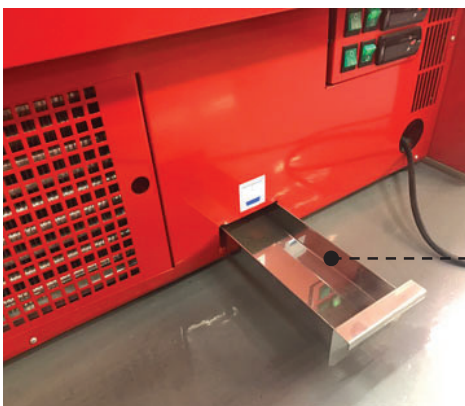
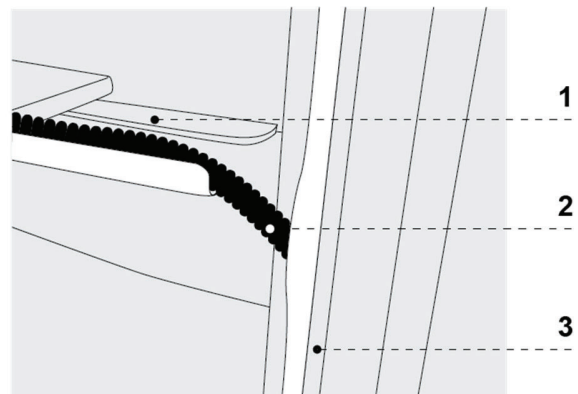


Figure 4 Condensate container

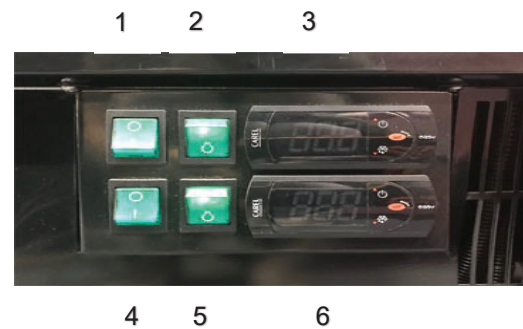
- 1 – Condensate container (empty the condensate!!!)

1



Figure 5 Control panel

- 1– Main switch (turns on/off the unit) for top unit
- 2 – Light switch for top unit
- 3 – Thermostat for top unit (temperature regulator) panel (Service details in Chapter 4)
- 4 – Main switch (turns on/off the unit) for bottom unit
- 5 – Light switch for bottom unit
- 6– Thermostat for bottom unit (Temperature regulator) panel (Service details in Chapter 4)



4. UNIT START UP

The Temperature of the cooled space and aggregate operating cycle may fluctuate. This depends on numerous factors, such as the amount and temperature of products placed in the device and temperature of the surroundings. The equipment should be placed in a dry and well-ventilated area, ensuring proper air exchange (distance between the wall and the equipment– min. 10cm), out of sunlight, kept far from heat sources and devices enforcing air flow (ceiling and portable ventilators, blow-in heaters). The equipment functions properly in a room, where temperature falls within appropriate climatic class. The operation of the equipment may worsen when operates outside the stated temperature range.

Remarks and indications

- ***The display case has to be properly levelled, which will prevent noisy corking of the equipment and shall ensure proper water (condensate) outflow during defrosting.***
- ***After transporting the equipment, wait about 2 hours before starting up the unit.***
- ***To ensure proper conditions for the stored products, do not load the shelves completely. Ensure even load of shelves and not to exceed the maximum load.***
- ***The first filling of shelves should be performed after the unit had reached the desired cooling temperature. This principle should also be observed after a long pause in the operation.***
- ***Do not block any ventilation holes, which would hamper the circulation of the cooled air. It is also necessary to ensure proper airflow around the equipment.***
- ***Keep the condenser clean. Impurities may lead to overheating of the compressor and may result in damage, which is not covered by the warranty.***

- **Do not use electric devices inside the product storing chamber.**
- **Avoid unnecessary opening of the doors and leaving them open for a longer period of time.**

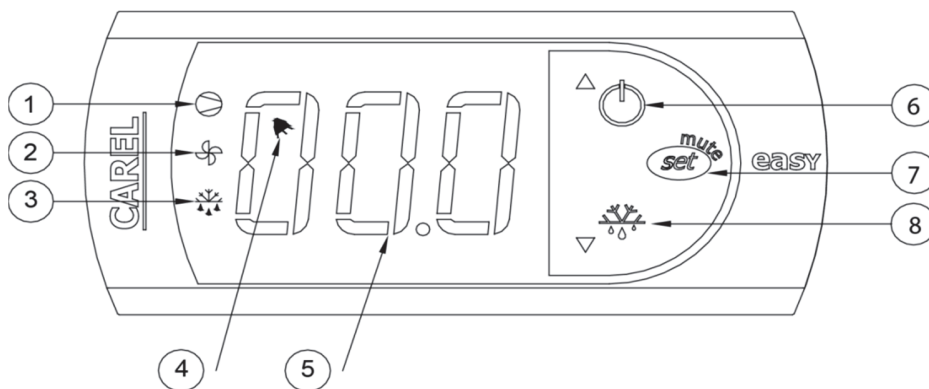
4.1. Temperature regulation

The thermostat is to obtain the set temperature within the equipment and maintain it within the determined temperature ranges. The manufacturer enters all settings of temperature regulators required for normal functioning of the equipment. Before primary actuation the user should control and possibly set the required temperature inside the equipment on the control panel.

Digital display – displays the current temperature inside the equipment.

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

Figure 6 “Carel” thermostat control panel



QuickFinder for CAREL

WHAT DO DIODES ON CONTROL PANEL SIGNIFY

Diode 1 - Compressor: This symbol is visible when the compressor is working. It blinks 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 - Ventilator: This 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 - Defrosting: This symbol is visible when the defrosting function is activated. It blinks when the actuation is delayed by external disengagement or when another procedure is in progress.

Diode 4 - Alarm: This symbol is visible when the alarm is activated.

Diode 5 - Current temperature inside the equipment is displayed (decimal places displayed after the comma).

Diode 6 – On/Off Switch: Pressing this button alone: for more than 3 sec. switch On/Off, **Pressing with other buttons:** pressed together with 8 activities/deactivates the continuous cycle.

Diode 7 – Set/ Mute: **Pressing this button alone:** 1 sec. displays /sets the set point, more than 3 sec. accesses the parameter setting menu (enter password 22), mutes the audible alarm (buzzer), **Start Up:** hold the set/mute button for 1 sec. RESET current EY set / Pressed together (7 and 8) activate parameter reset procedure.

Diode 8 – Defrost: **Pressing this button alone:** more than 3 sec. activates/deactivates the defrost. **Pressing with other buttons:** pressed together with 6 activates/deactivates the continuous cycle, **Start Up:** hold for 1 sec. displays firmware version.

SETTING THE DESIRED TEMPERATURE

- Press the set button  for 1 second leading value shall be displayed on the screen
- Increase or decrease the leading value by means of   and   , until the desired value shall be obtained;
- Press the set button  once again in order to confirm the new value of the setting point.

MANUAL INPUT OF THE DEFROSTING CYCLE

Defrosting shall be released in an automatic mode. It is possible to force defrosting at any moment by pressing and holding the  defrost switch for minimum 5 seconds.

Table 2 Table of alarms and signals

alarm code	buzzer and alarm relay	LED	alarm description	reset
E0	active	ON	probe 1 error= control	automatic
E1	active	ON	probe 2 error= defrost	automatic
E2	active	ON	probe 3 error= condenser/product	automatic
EE	active	ON	unit parameter error	not possible
EF	active	ON	operating parameter error	manual
Ed	not active	ON	defrost ended by timeout	On first defrost ended correctly
CHt	active	ON	dirty condenser alarm	manual

MODIFYING THE PARAMETERS

Parameter navigation

The operating parameters, modifiable using the keypad, are divided into two types: frequent (type F) and configuration (type C). Access to the latter is protected by password (default= 22) to prevent accidental or unauthorized modifications.

Accessing the type F parameters:

- Press the SET button for more than 3 s (if there are active alarms, mute the buzzers). The display shows the parameter code 'PS' (password);
- Use the UP and DOWN buttons to scroll the parameters. The LED corresponding to the category of parameters will be on;
- Press SET to display the value associated with the parameter
- Increase or decrease the value using the UP or DOWN button respectively;
- Press SET to temporarily save the new value and display the parameter again;
- Repeat the procedure for any other parameters that need to be modified;
- Press the SET button for more than 3 s to permanently save the parameters and exit the parameter setting procedure.

Table 3 Table of easy compact parameters for model JMRTGGP

Par.	Description	Def.	UOM.	Min	Max
St	set point	2.0	°C	r1	r2
PS	password	22	-	0	99
/2	probe measurement stability	4	-	1	15
/4	select probe displayed	1	-	1	3
/5	select °C/°F	0	-	0(°C)	1(°F)
/6	disable decimal point	0	-	0	1
/C1	probe 1 offset	0.0	°C	-50.0	50.0
/C2	probe 2 offset	0.0	°C	-50.0	50.0
/C3	probe 3 offset	0.0	°C	-50.0	50.0
rd	control differential	3.0	°C	0	19.0
r1	minimum set point value	0.0	°C	-50.0	r2
r2	maximum set point value	15.0	°C	r1	99
r3	select direct/reverse operation	0	-	0	2
r4	night-time set point delta	3.0	°C	-50	50
c0	compressor and fan start delay on power-up	1	min	0	100
c1	minimum time between consecutive compressor starts	3	min	0	100
c2	minimum compressor off time	0	min	0	100
c3	minimum compressor on time	2	min	0	100
c4	compressor on time with duty setting	50	min	0	100
cc	continuous cycle duration	2	2	0	15
c6	temperature alarm bypass after continuous cycle	2	h	0	15
d0	type of defrost	0	-	0	4
dl	interval between defrosts	6	h	0	199
dt	end defrost temperature set point	12.0	°C	-50	130
dP	maximum defrost duration	30	min	1	199
d4	defrost when switching the instrument on	0	-	0	1



d5	defrost delay on power-up or when enabled by digital input	0	min	0	199
d6	freeze control temperature display during defrost	1	-	0	1
dd	dripping time	2	min	0	15
d8	alarm bypass time after defrost	2	h	0	15
d9	defrost priority over compressor protectors	0	-	0	1
d/	defrost probe reading (2)	-	°C	-	-
dC	time base	0	-	0	1
A0	alarm and fan temperature differential	2.0	°C	-20	+20
AL	absolute/relative temperature for low temperature alarm	0.0	°C	-50	+99
AH	absolute/relative temperature for high temperature alarm	0.0	°C	-50	+99
Ad	temperature alarm delay	0	min	0	199
A4	3rd input configuration	0	-	0	11
A7	digital input alarm delay	0	min	0	199
A8	enable alarm "Ed" (end defrost by timeout)	0	-	0	1
AC	set point dirty condenser alarm	60	°C	-50	250
AE	dirty condenser alarm differential temperature	3.0	°C	0.1	20
Acd	dirty condenser alarm delay	0	min	0	250
F0	enable evaporator fan control	0	-	0	1
F1	evaporator fan control set point	5.0	°C	-50	130
F2	stop evaporator fan if compressor off	0	-	0	1
F3	evaporator fan status during defrost	0	-	0	1
Fd	post-dripping time	2.0	min	0	15
H0	serial address	1	-	0	207
H1	AUX output configuration	0	-	0	2
H2	enable keypad	1	-	0	2
H4	disable buzzer	0	-	0	1
H5	ID code (read-only)	0	-	1	+199
EZY	restore the Default settings	0	0	0	1

5. MAINTENANCE

- Do not use steel wool, abrasive cleaners, bleach or cleaners containing chlorine or sodium to clean the unit.
- Do not use a pressure washer or water-jet to clean the unit.
- The unit should be cleaned right after unpacking and before turning it on.
- The unit should be cleaned with warm water and a mild soap.
- Make sure to cover the fan motor to prevent moisture damage.
- Door gaskets, shelves and supports should be cleaned on a regular basis.
- Fan blades and guards should be cleaned with a soft cloth.

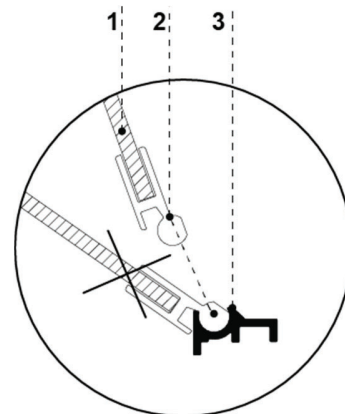


5.1 Cleaning and maintenance

- *All maintenance service needs to be performed after disconnecting the unit from the power supply!*
- *Protect electrical components against any damage or water spillage.*
- *Do not use water stream to clean the equipment, only a moist cloth.*
- *Do not use any sharp objects to remove dirt!*
- *When cleaning inside the unit, do not leave the front glass panel open in the aluminum profile. This may cause damage to the glass and is not covered by the warranty. Please remove the glass with profile during cleaning. (Figure 8)*

Figure 7 Disassembly of the front glass on top display unit

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

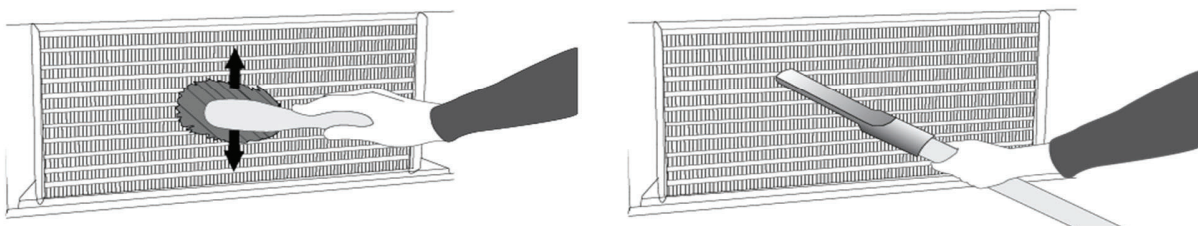


When using the display case, as well as during maintenance works, pay attention not to damage the temperature sensor in the evaporator screen!

Do not use mechanical agents to quicken the defrosting process!

It is recommended to make a break in the operation once a month in order to clean the interior, naturally defrost the evaporator and clean the condenser.

Figure 8 Cleaning the condenser



It is essential to keep the condenser of the device clean. Dirt may hinder the heat exchange, causing mainly an increase in electric energy consumption and may cause damages to the compressor. In order to clean the condenser it is necessary to unscrew the sheet metal screws and pull the wind brace out of catch by lifting it up. Clean condenser lamellas with help of soft brush or paint brush. If the condenser is extremely dirty (blocking of lamellas) it is indicated to use vacuum cleaner or compressed nitrogen to suck / blow the dirt from between lamellas.

The seller shall not be held responsible for damages of the condenser unit resulting from non-observance of condenser cleaning instructions.

Elements of equipment can corrode as result of improper use and maintenance. To prevent damage: Do not allow contact of the with substances containing chlorine and/ or baking soda in different varieties, which destroy the protective layer and components of the equipment (also includes various stainless steel cleaners)

6. SERVICE

6.1. Faults identification and repair

In case of any difficulties during actuation of the equipment or during its operation, please return to this chapter in this manual, which will explain the performed operation. This aims to ensure the equipment is properly operated. If you still experience difficulties, the following might help you solve the problem.

The equipment is not working... – Make sure that:

- The equipment is connected to the power supply.
- Voltage and frequency are compliant with those recommended by the manufacturer, 115V/60Hz.
- The main switch is turned on.
- Thermostat is turned on.

The equipment is operating, but the light is off... – Make sure that:

- Light switch is turned on.
- Lamp, starting switch, or power supply of the unit is not burnt.

Water leakage from under the device

- Check whether the equipment is properly levelled.
- Empty the condensate container.

The equipment does not reach the proper temperature, the light 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, when the humidity is more than 60 %.
- Enough time has passed for products to be cooled.
- Ventilation holes are not blocked.

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

- The unit is standing stably and is properly levelled.
- Furniture adjoining the equipment does not vibrate when self-contained compressor is working.

Noises made by the operating device is a normal phenomenon. The units 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 does not signify equipment failure.

Steam precipitation on the glass is a normal phenomenon in the event of high relative air humidity exceeding 60% and does not require calling for service.

6.2 Service

IGLOO Refrigeration service

Telephone number: 416-663-3051 or (toll free) 1-888-408-8819

E-mail: service@igloo400.com

If after checking points described in chapter 6.1 “Faults identification and repair” and the unit still does not work properly,

Please contact Technical Service @ IGLOO Refrigeration.





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