



ARCH Series

Self-Contained Cold-Wall Bunker with Lids

WARNINGS:

If the information in these instructions are not followed exactly, a fire or explosion may result, causing property damage, personal injury or death.

Installation and service must be performed by a qualified installer or service agency.

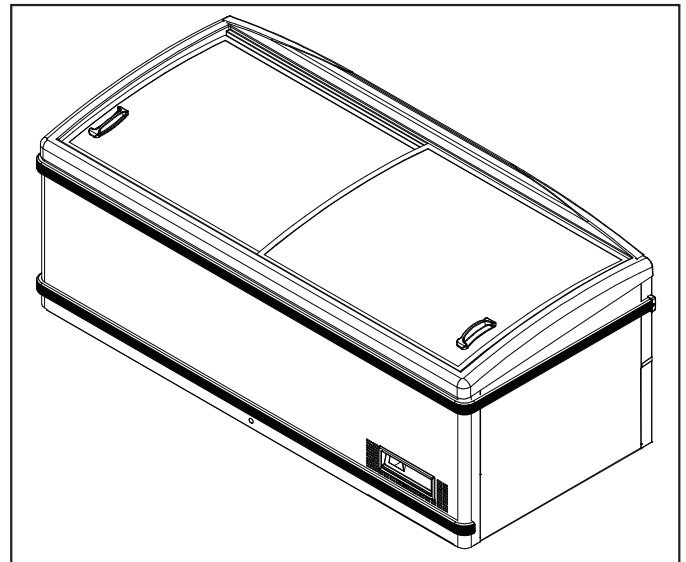
**READ THE ENTIRE MANUAL BEFORE
INSTALLING OR USING THIS EQUIPMENT.**

The unit uses R-290 gas as the refrigerant. R-290 is flammable and heavier than air. It collects first in low areas but can be circulated by the fans. If propane gas is present or even suspected, do not allow untrained personnel to attempt to find the cause. The propane gas used in the unit has no odor. The lack of smell does not indicate a lack of escaped gas. If a leak is detected, immediately evacuate all persons from the store, and contact the local fire department to advise them that a propane leak has occurred. Do not let any persons back into the store until the qualified service technician has arrived and that technician advises that it is safe to return to the store. No open flames, cigarettes or other possible sources of ignition should be used inside or in the vicinity of the units.

**FAILURE TO ABIDE BY THIS WARNING COULD
RESULT IN AN EXPLOSION, DEATH, INJURY AND
PROPERTY DAMAGE.**

IMPORTANT

Keep in store for future reference!



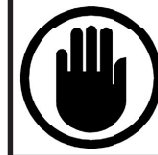
Installation & Operation Manual

P/N 3116321_E
June 2023



BEFORE YOU BEGIN

Read these instructions completely and carefully.



PERSONAL PROTECTION EQUIPMENT (PPE)

Personal Protection Equipment (PPE) is required whenever installing or servicing this equipment. Always wear safety glasses, gloves, protective boots or shoes, long pants, and a long-sleeve shirt as required when installing or servicing this equipment.



WARNING

This refrigeration system uses hot gas defrost and incorporates a Normal Closed Solenoid. In order to remove all the refrigerant for service, the valve must be held open while the refrigerant is being evacuated. Failure to remove all the refrigerant can cause a fire or explosion.

1. If the information in these instructions are not followed exactly, a fire or explosion may result, causing property damage, personal injury or death.
2. Installation and service must be performed by a qualified installer or service agency.
3. This unit is designed only for use with R-290 gas as the designated refrigerant.

THE REFRIGERANT LOOP IS SEALED. ONLY A QUALIFIED TECHNICIAN SHOULD ATTEMPT TO SERVICE!

- Propane is flammable and heavier than air.
- It collects first in the low areas but can be circulated by the fans.
- If R-290 is present or even suspected, do not allow untrained personnel to attempt to find the cause.
- The propane gas used in the unit has no odor.
- The lack of smell does not indicate a lack of escaped gas.
- If a leak is detected, immediately evacuate all persons from the store, and contact the local fire department to advise them that a propane leak has occurred.
- Do not let any persons back into the store until the qualified service technician has arrived and that technician advises that it is safe to return to the store.
- A hand-held propane leak detector ("sniffer") shall be used before any repair and/or maintenance.
- No open flames, cigarettes or other possible sources of ignition should be used inside the building where the units are located until the qualified service technician and/or local fire department determines that all propane has been cleared from the area and from the refrigeration systems.
- Component parts are designed for propane and non-incendive and non-sparking. Component parts shall only be replaced with identical repair parts.

FAILURE TO ABIDE BY THIS WARNING COULD RESULT IN AN EXPLOSION, DEATH, INJURY AND PROPERTY DAMAGE.

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SAFETY

This manual was written in accordance with originally prescribed equipment that is subject to change. Hussmann reserves the right to change or revise specifications and product design in connection with any feature of our products.

Only qualified personnel should install and service this equipment. Servicing is only to be done by factory authorized personnel. Observe all precautions on tags, stickers, labels and literature attached to this equipment. Component parts shall be replaced with like components. Service is to be performed by factory-authorized service personnel, so as to minimize the risk of possible ignition due to incorrect parts or improper service. Contact your Hussmann representative to arrange servicing.

The safety of our customers and employees is paramount. The precautions and procedures described in this manual are intended as general methods for safe use of this equipment. Please be sure to comply with the precautions described in this manual to protect you and others from possible harm, and follow OSHA standards for safety.

The definitions at right are used to clarify the magnitude and urgency of harm and damage, considering problems arising from misuse. Relative to their potential danger, the definitions are divided into four parts according to ANSI Z535 Series.

ANSI Z535.5 DEFINITIONS



• **DANGER** – Indicate[s] a hazardous situation which, if not avoided, will result in death or serious injury.



• **WARNING** – Indicate[s] a hazardous situation which, if not avoided, could result in death or serious injury.



• **CAUTION** – Indicate[s] a hazardous situation which, if not avoided, could result in minor or moderate injury.

• **NOTICE** – *Not related to personal injury* – Indicates[s] situations, which if not avoided, could result in damage to equipment.

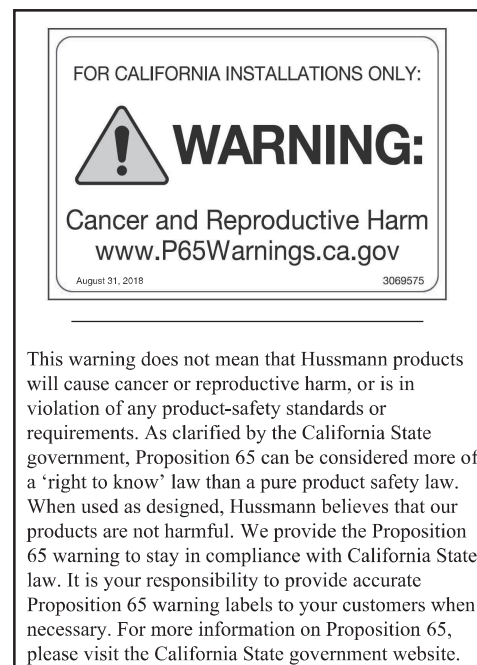
REVISION HISTORY

REVISION E — Added IJF Controller Instructions

REVISION D — Updated Hot Gas Piping Layout, Page 2-5

REVISION C — Updated Medium Temp. Mode, Page 3-5

REVISION B — ORIGINAL RELEASE



INSTALLATION

UL LISTING

These merchandisers are manufactured to meet ANSI/ UL 471 standard requirements for safety. Proper installation is required to maintain the listing.

FEDERAL / STATE REGULATION

These merchandisers at the time they are manufactured, meet all federal and state/provincial regulations. Proper installation is required to ensure these standards are maintained. Near the serial plate, each merchandiser carries a label identifying the environment for which the merchandiser was designed for use. These cases meet Type I & Type II conditions.

**ANSI/NSF-7 Type I – Display Refrigerator / Freezer
Intended for 75°F (24°C) / 55% RH Ambient Application**

**ANSI/NSF-7 Type II – Display Refrigerator / Freezer
Intended for 80°F / 55%RH Ambient Application**

ANSI/NSF-7 – Display Refrigerator

Environmental Concerns

If disposing of this equipment at end of useful life-cycle, consult with local authorities for proper disposal of merchandiser parts that are foamed using cyclopentane as the blowing agent.

HUSSMANN PRODUCT CONTROL

The serial number and shipping date of all equipment is recorded in Hussmann's files for warranty and replacement part purposes. All correspondence pertaining to warranty or parts ordering must include the serial number of each piece of equipment involved. This is to ensure the customer is provided with the correct parts.

SHIPPING DAMAGE

All equipment should be thoroughly examined for shipping damage before and during unloading. This equipment has been carefully inspected at our factory. Any claim for loss or damage must be made to the carrier. The carrier will provide any necessary inspection reports and/or claim forms.

Apparent Loss or Damage

If there is an obvious loss or damage, it must be noted on the freight bill or express receipt and signed by the carrier's agent; otherwise, carrier may refuse claim. Do not under any circumstances connect a damaged cabinet to the electric circuit. Otherwise, there is the risk of electric shock or refrigerant leakage!

Concealed Loss or Damage

When loss or damage is not apparent until after equipment is uncrated, retain all packing materials and submit a written response to the carrier for inspection within 15 days.

LOCATION

These merchandisers are designed for displaying products in air conditioned stores where temperature is maintained at or below the ANSI / NSF-7 specified level and relative humidity is maintained at or below 55%.

Recommended operating ambient temperature is between 65°F (18°C) to 80°F (26.7°C). Maximum relative humidity is 55%.

LOCATION (CONTINUED)

Placing refrigerated merchandisers in direct sunlight, near hot tables or near other heat sources could impair their efficiency. Like other merchandisers, these merchandisers are sensitive to air disturbances. Air currents passing around merchandisers will seriously impair their operation.

Do NOT allow air conditioning, electric fans, open doors or windows, etc. to create air currents around the merchandiser. For the equipment's proper installation, check if it is placed on an even surface and not near sources of heat and/or direct solar radiation or near doors, windows, fans, and vents.



Maintain a minimum 150 mm or 5.9 inches at rear of case.

**WARNING**

Case ventilation openings must be clear of any obstructions. Do not damage the refrigerant circuit.

**WARNING**

Do NOT stand or walk on top of merchandiser. Do not store items or flammable materials atop the unit.

SELF CONTAINED (LOCATION)

Product should always be maintained at proper temperature. This means that from the time the product is received, through storage, preparation and display, the temperature of the product must be controlled to maximize the life of the product. In humid environments with a large concentration of salt, like fish markets, be sure water does not come directly into contact with the compressor area.

BE SURE TO POSITION SELF CONTAINED MERCHANDISERS PROPERLY.

SELF CONTAINED models have vented base panels to allow air circulation through the condensing unit. These panels are located around the condensing unit.

Allow for a minimum 150 mm or 5.9 inches of clearance from walls, merchandisers, and any other large objects near the merchandiser's vented base panels at the rear of the case(s). The equipment must be placed in a well-ventilated area. Blocking or restricting air flow will adversely affect performance and may damage the refrigeration system.

MODEL DESCRIPTION

These models are island, spot display cases. Each self-contained model has its own condensing unit, factory installed beneath the display area of the case ready for operation when electrical service is connected.

UNLOADING

Unloading from Trailer:

Each merchandiser is shipped within a crate intended to protect it and allow it to be easily moved. Please **DO NOT** remove the merchandiser from the crate until it is as close as possible to its permanent location.

To remove the crate from the trailer, use a lever bar (also known as a Mule, Johnson Bar, J-bar, Lever Dolly, or Pry Lever), forklift, or dolly.

DO NOT drag the crate. Move the crate near the final merchandiser setup location.

To remove the merchandiser from the crate, remove all braces, the top, and sides. Lift the merchandiser off of the base skid.

DO NOT lay the merchandiser on its side or back to remove it from the crate. Use care to not damage the merchandiser during this process. Once the shipping skid is removed, the merchandiser must be lifted — **NOT PUSHED**.



MERCHANDISER LEVELING

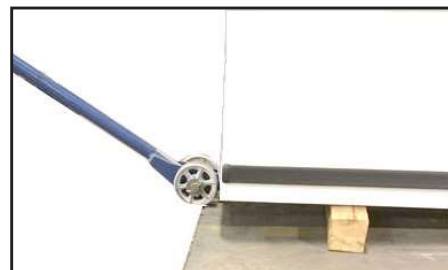
BE SURE TO POSITION MERCHANDISERS PROPERLY. Check floor where cases are to be set to see if it is a level area. Determine the highest part of the floor. Level the merchandiser by all four corners. Merchandiser(s) must be installed level to ensure proper operation of the refrigeration system and to ensure proper drainage of defrost water.

ADJUSTABLE LEG LEVELERS

Leg with levelers are provided with the case. A wood block can be used to raise the case in order to lower the feet.

Installation of mounting legs with levelers:

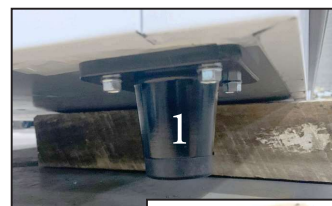
1. Use a J bar to lift the case and install a block of wood to provide clearance to install the legs.



2. Install the legs, and secure with self tapping screws. Use machine screws on the condensing unit compartment to avoid sharp points.



3. Screw in the leveling legs and adjust to provide a level case.



1-4 INSTALLATION

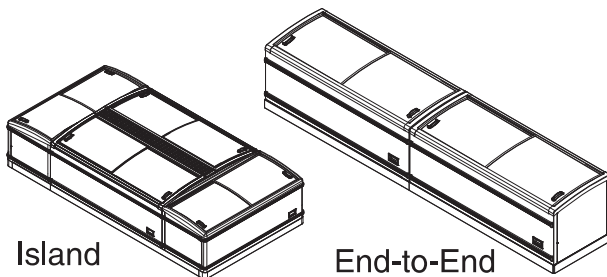
SERIAL PLATE LOCATION

The serial plate is located on the back of the unit near refrigeration system.

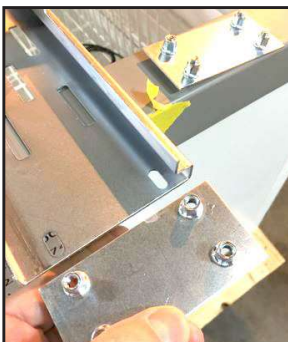


CASE LINEUPS

The merchandiser can be setup standalone, in an end-to-end lineup, a back-to-back configuration, or in an island configuration.



For cases in an end-to-end adjacent lineup, use bracket below to connect and join kickguards.



REFRIGERATION UNIT ACCESS

Remove side panel screws to gain access to the condensing unit. Check inside this panel to make sure all electrical wiring is secured, and that there is no damage to the unit from shipment or placement. Confirm there are no refrigerant leaks during startup of the case(s).



SEALING MERCHANDISER TO FLOOR

If required by local sanitary codes, or if the customer desires, merchandisers may be sealed to the floor. The size needed will depend on how much variation there is in the floor, from one end of the merchandiser to the other. Sealing of the lower front and rear panels on self contained models may hamper their removal for servicing or maintenance of the condensing unit.

NOTE: Do not allow trim to cover any intake or discharge grilles located in the lower front panel.

CAUTION

Do not climb on or get inside the equipment. Materials in the case could break and presents a risk of physical injury and damage to the equipment.

ELECTRICAL / REFRIGERATION

MERCHANDISER ELECTRICAL DATA

Refer to the technical data sheets and case serial plate for electrical information.

FIELD WIRING

Field wiring must be sized for component amperes stamped on the serial plate. Actual ampere draw may be less than specified.

**ALWAYS CHECK THE SERIAL PLATE FOR
COMPONENT AMPERES**

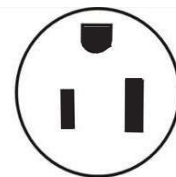
ELECTRICAL CONNECTIONS

All wiring must be in compliance with NEC and local codes.

ELECTRICAL OUTLET:

Before the merchandiser is connected to any wall circuit, use a voltmeter to check that the outlet is at 100% of the rated voltage. The wall circuit must be dedicated for the merchandiser. Failure to do so voids the warranty. Do not use an extension cord. Never plug in more than one merchandiser per electrical circuit.

- 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 long or thin extension cords. Never use adapters.
- If in doubt, call an electrician.



**NEMA 5-15P
Plug**

Self-contained models have factory-installed power cords attached at the electrical box. If the power cord is damaged, it must be replaced by personnel qualified for this task to prevent hazardous situations.



WARNING

**Merchandiser must be grounded.
Do not remove the power supply cord ground.**



CAUTION

Risk of Electric Shock. If cord or plug becomes damaged, replace only with a cord and plug of the same type.

REFRIGERATION

Each model is equipped with its own condensing unit and control panel located underneath the display area behind the vented panels. The correct type of refrigerant will be stamped on each merchandiser's serial plate. The merchandiser refrigeration piping is leak tested.

Before Beginning Any Service or Repair:

Use a hand-held propane leak detector (“sniffer”) to ensure no propane is present in the immediate area, the inside of the display case and the inside of the refrigeration system. R-290 is an odorless refrigerant. Keep the area clear of all customers and non-essential or unauthorized personnel.

Verify that all repair parts are identical models to the ones they are replacing. Do not substitute parts such as motors, switches, relays, heaters, compressors, power supplies or solenoids. Failure to do so can result in an explosion, death, injury and property damage. Parts used on hydrocarbon cases must meet specific UL certification for non-incendive or non-sparking components. Use only Hussmann approved parts approved through the Hussmann Performance Parts Website. <https://parts.hussmann.com/> See Appendix for parts list.

Brazing must not begin before all propane has been cleared from the immediate area — the inside of the displays case and the inside of the refrigeration system.

WARNING

Only Hussmann or factory trained technicians should service or repair this R-290 (propane) equipment.

Failure to follow instructions can result in an explosion, death, injury and property damage.

WARNING

This refrigeration system uses hot gas defrost and incorporates a Normal Closed Solenoid. In order to remove all the refrigerant for service, the valve must be held open while the refrigerant is being evacuated. Failure to remove all the refrigerant can cause a fire or explosion.

WARNING

Refrigeration lines are under pressure. Refrigerant must be recovered before attempting any connection or repair.

If a leak is detected, follow store safety procedures. It is the store's responsibility to have a written safety procedure in place. The safety procedure must comply with all applicable codes such as local fire department's codes.

At minimum, the following actions are required:

- Immediately evacuate all persons from the store, and contact the local fire department to advise them that a propane leak has occurred.
- Call Hussmann and/or a qualified service agent and inform them that a propane sensor has detected the presence of propane.
- Do not let any persons back into the store until the qualified service technician has arrived and that technician advises that it is safe to return to the store.

- The propane gas used in the unit has no odor. The lack of smell does not indicate a lack of escaped gas.

- A hand-held propane leak detector (“sniffer”) should be used before any repair and/or maintenance is attempted. All repair parts must be identical models to the ones they are replacing.
- No open flames, cigarettes or other possible sources of ignition should be used inside the building where the units are located until the qualified service technician and/or local fire department determines that all propane has been cleared from the area and from the refrigeration systems.

REPLACING REFRIGERATION SYSTEM COMPONENTS



DANGER

Only Hussmann service technicians or technicians qualified to handle R-290 (propane) refrigerant should service or repair this R-290 (propane) equipment. Failure to follow instructions can result in an explosion, death, injury and property damage.

STEPS TO RECOVER REFRIGERANT

1. Make sure you are in a well ventilated area before making any service or repair to the refrigeration system.
2. Disconnect all power sources from the system. Some systems may have more than one plug or power supply.
3. Tap system with line tap valves, attaching gauges to the high and low sides of the system.



**refrigeration
line tapping
valve**

4. Connect hose to an evacuated recovery tank. Open refrigeration gauges and recovery tank.



WARNING

This refrigeration system uses hot gas defrost and incorporates a Normal Closed Solenoid. In order to remove all the refrigerant for service, the valve must be held open while the refrigerant is being evacuated. Failure to remove all the refrigerant can cause a fire or explosion.

5. With the suction valve in vacuum, the refrigerant will be recovered into the recovery tank.
6. Once recovered, close the tank valve and remove the gauge from the tank and connect nitrogen tank to the system to purge it with nitrogen.
7. Pull vacuum to a minimum of 200 microns or lower.



CHARGING

A calibrated scale with +/-2 gram accuracy must be used to charge the system. The charge amount is shown on the serial plate. Only R-290 grade refrigerant can be used. Standard propane does not meet the purity/moisture content of R-290, and therefore cannot be used to charge cases.

No gas charge adjustments are allowed. When connecting hoses between the refrigeration system, manifold gauges, and refrigerant cylinder, ensure that the connections are secure and there are no potential sources of ignition nearby. Ensure that contamination of different refrigerants does not occur when using charging equipment. Use dedicated hoses to service R-290 (propane) refrigeration systems. Hoses or lines should be as short as possible to minimize the amount of refrigerant contained in them.

Ensure that the refrigeration system is properly grounded prior to charging the system with refrigerant, to avoid the potential for static build-up.

Extreme care must be taken not to overfill the refrigeration system. After charging, carefully disconnect the hoses, attempting to minimize the quantity of refrigerant released.

Further leak check the service ports, hoses, refrigerant tanks. The service ports shall be checked for leaks using a hydrocarbon leak detector with a sensitivity of 3 grams/year (0.106 Oz/year) leak rate.



Thoroughly leak check the service ports. If no leak is present, use a pinch-off tool to close the ends of the service tubes before brazing them shut. Remove all service ports.

If a Schrader valve is used on the compressor service tube, it must be removed and the previous steps followed in order to braze the service tube shut.

⚠ WARNING

— LOCK OUT / TAG OUT —

To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.

WASTE OUTLET AND WATER SEAL

These merchandisers have one waste outlet located on the right side, front of case. A p-trap or water seal may be installed to prevent air leakage and insect entrance.

Before starting the case, put in a small amount of water as shown below to provide a water seal otherwise frost and ice may form.



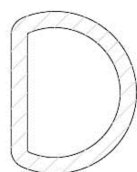
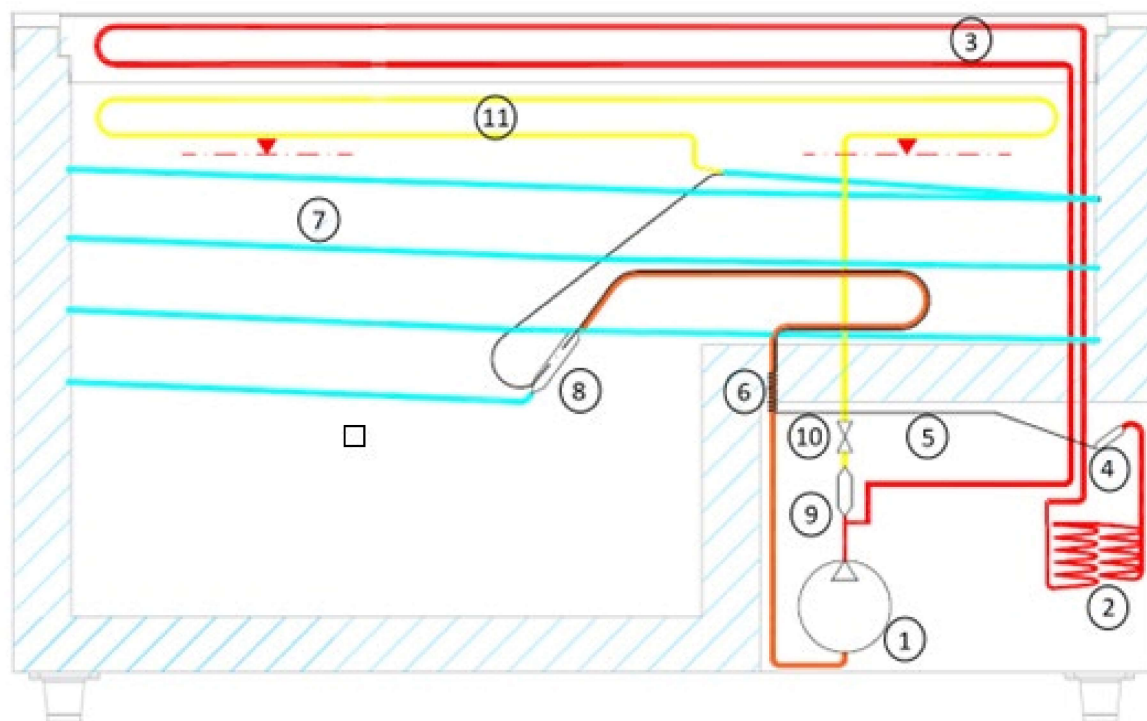
Install the drain screen (shown below). Drain screen is included with the kit packout.



⚠ WARNING

Component parts shall be replaced with like components, and servicing shall be done by factory authorized service personnel only, so as to minimize the risk of possible ignition due to incorrect parts or improper service.

HOT GAS PIPING LAYOUT



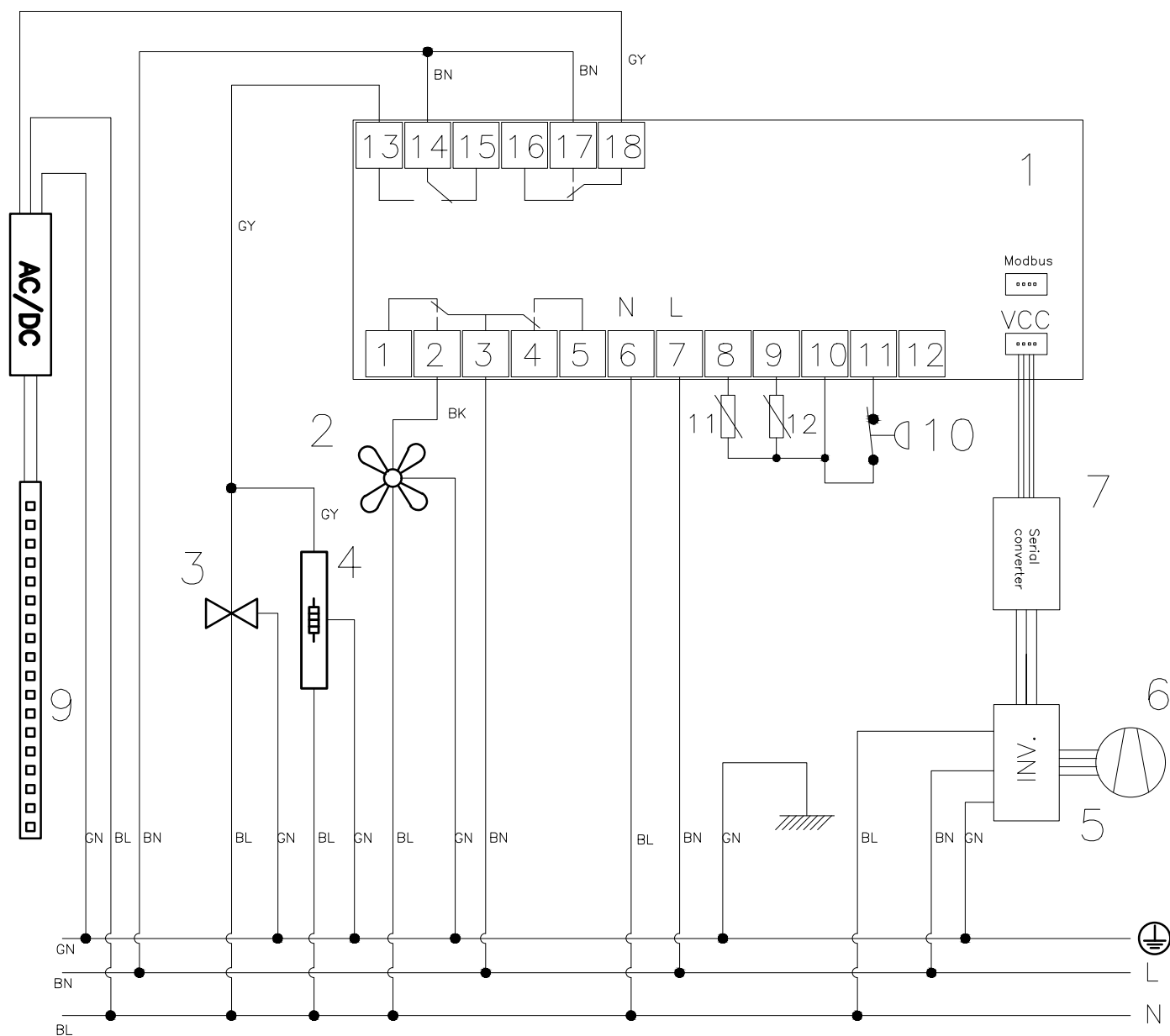
"D" Shaped evaporator

1. Compressor
2. Condenser
3. Skin Condenser
4. Filter Dryer
5. Capillary
6. Heat Exchanger
7. Evaporator
8. Accumulator
9. Filter Strainer
10. Defrost Valve
11. Defrost Line

**WARNING**

This refrigeration system uses hot gas defrost and incorporates a Normal Closed Solenoid. In order to remove all the refrigerant for service, the valve must be held open while the refrigerant is being evacuated. Failure to remove all the refrigerant can cause a fire or explosion.

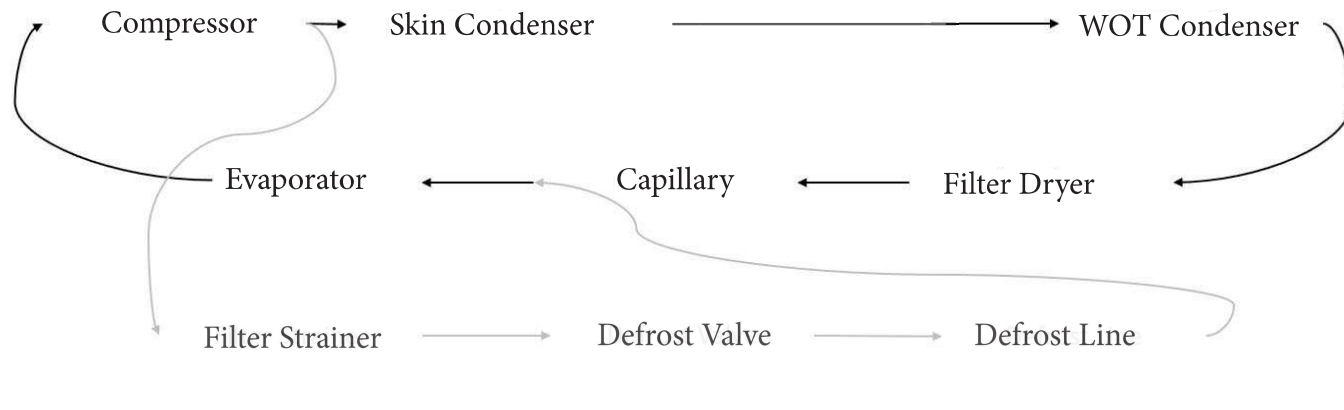
WIRING DIAGRAM



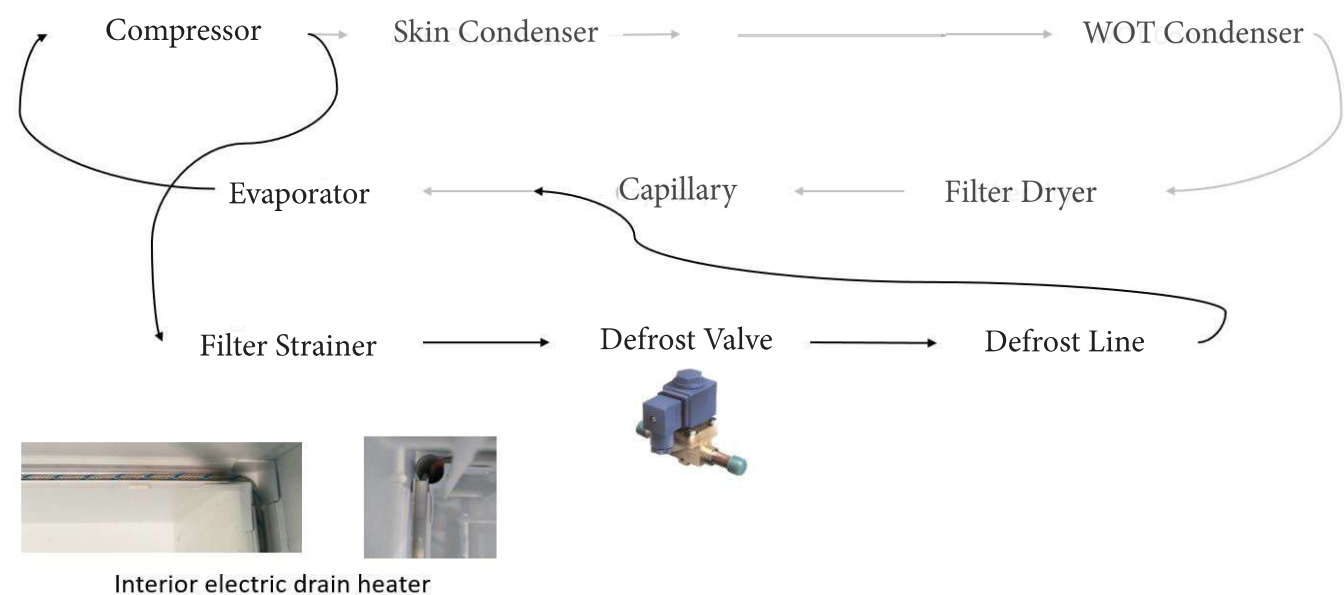
- 1 – Controller
- 2 – Condenser Fan
- 3 – Defrost valve
- 4 – Defrost Heater
- 5 – Inverter do compressor
- 6 – Compressor
- 7 – Serial Converter
- 8 – LED Power Supply
- 9 – LED bar(s)
- 10 – Pressure Switch
- 11 – Ambient Probe
- 12 – Defrost probe

BL = Blue
 BK = Black
 BN = Brown
 GN = Green
 GY = Grey

REFRIGERATION SEQUENCE OF OPERATION



DEFROST GAS SEQUENCE OF OPERATION



During defrost, the defrost solenoid valve is energized and held open allowing the gas to be redirected through the evaporator. Also the defrost condensate shown in the picture is energized. Defrost is temperature terminated with a failsafe that is 45 minutes. Normally only 1 defrost per day is required.

NOTES:

START UP / OPERATION

Hussmann Self-Contained Refrigeration Equipment Start Up Check List

Please note that failure to follow this start-up document may void your factory warranty


Step	Startup Activity	Check
1	Locate, read and keep install/operation manual in a safe place for future reference.	<input type="checkbox"/>
2	Examine unit. Confirm there is NO damage or concealed damage.	<input type="checkbox"/>
3	Level the unit, side to side and front to rear.	<input type="checkbox"/>
4	Remove all shipping brackets/compressor straps/bolts etc.	<input type="checkbox"/>
5	Unit must be run on a dedicated electrical circuit. Do not use adapters.	<input type="checkbox"/>
6	Ensure that the proper electrical requirements for the equipment are supplied.	<input type="checkbox"/>
7	Verify all electrical wiring is secured and clear of any sharp edges or hot lines. Connect plug to the outlet.	<input type="checkbox"/>
8	Some water should be placed in the drain to close the siphon and prevent formation of ice.	<input type="checkbox"/>
9	Confirm drain trap is secure. Prime drain to prevent air entering case.	<input type="checkbox"/>
10	Verify all required clearances on the sides and back of unit.	<input type="checkbox"/>
11	Verify there are no air disturbances external to the unit. Heat and air registers, fans, and doors etc.	<input type="checkbox"/>
Advise owner/operator that merchandiser must operate at temperature for 24 hrs prior to loading with product.		

LEGAL DISCLAIMER:

Hussmann shall not be liable for any repair or replacements made without the written consent of Hussmann, or when the product is installed or operated in a manner contrary to the printed instructions covering installation and service which accompanied such product.





CONTROLLER OPERATION

(Carel Controller IR33)


The electronic controller is located at the lower, righthand front of the case. The controller comes factory set, and is ready for use. The cases have predetermined factory temperature settings. Activate manual defrost by pressing and holding  for 5 seconds. The factory setting is -15° F to hold ice cream temperatures.

The case setpoint has been factory set, but the clock will need to be set to the local time. The case is set to defrost at 11:00 pm. The lights are set to come on at 6:00 am and turn off at 10 pm.





Key	Press Key
 PRG/MUTE	Press down for more than 3 seconds, access the “F” parameters (frequent) or the menu to define the password or access the “C” (settings) parameters menu; If there is an active alarm, silence the alarm.
 ON-OFF/UP	Press down for more than 3 seconds to turn OFF the control panel; Press down for more than 1 second to turn ON the control panel; Upon defining parameters, increase the amount exhibited or switch over to the next parameter.
 AUX/DOWN	Press down for more than 1 second to activate/deactivate the auxiliary output (lighting); Upon defining parameters, decrease the amount exhibited or switch over to the previous parameter.
 SET/DEF	Press down for more than 1 second to view and/or allow the user to define the set point; Press down for more than 5 seconds to initiate manual defrosting.


CHANGING THE CLOCK

Press the key for 3 seconds. 


Introduce the corresponding password: “22”.

Confirm by pressing the key. 

Navigate through the corresponding parameters by pressing the keys  and/or  and modify according to the following table.

Parameters for modification	Meaning	Action
Tc-y	Current year	Validate with  key.
Tc-m	Current month	
Tc-d	Current day of the month	
Tc-u	Current day of the week	
Tc-h	Current hour	
Tc-n	Current minute	

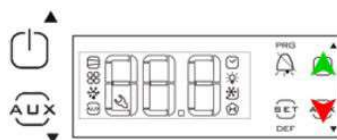
NOTES:

After modifying all the parameters, record them by pressing down the key  continuously until the temperature appears.

MODIFYING THE LIGHT TIMER

The case(s) are programmed to turn the lights on at 6:00 am and turnoff at 11:00 pm. To change these times follow this procedure:

Navigate through parameters to change:



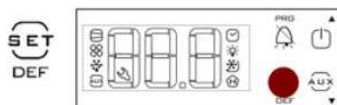
Light ON

- ton-d — day to turn ON (“11” means every day)
- ton-h — hour to turn ON
- ton-n — minute to turn ON

Light OFF

- toF-d — day to turn OFF (“11” means every day)
- toF-h — hour to turn OFF
- toF-n — minute to turn OFF

Validate with button SET
(Single Press)



Save with button PRG
(Long Press)



C	ton	Light/aux on time
	d	Day
	h	Hour
	n	Minute
C	toF	Light/aux off time
	d	Day
	h	Hour
	n	Minute

SETPOINT ADJUSTMENT

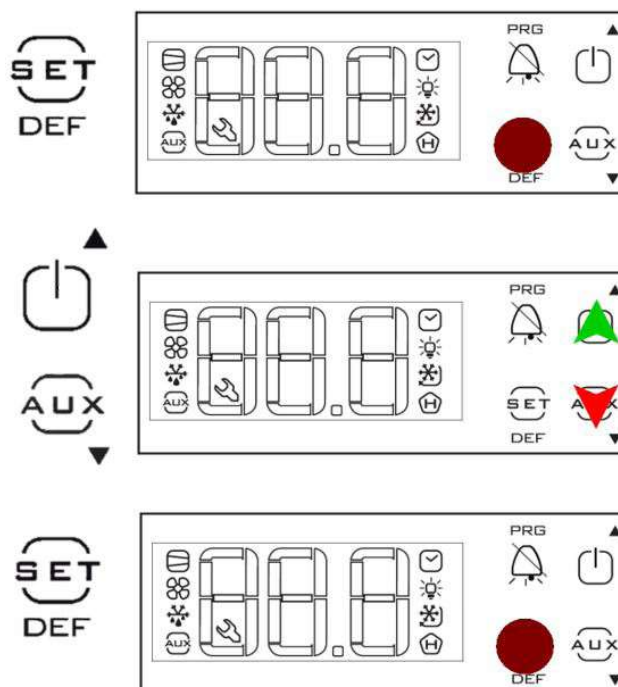
Press the SET button.

Change the Set Point Value.

Confirm with the SET button again to confirm.

NOTE:

The discharge air temperature for ice cream/ frozen foods is -14.8° to -10°F and 30° to 34° for Medium Temp.

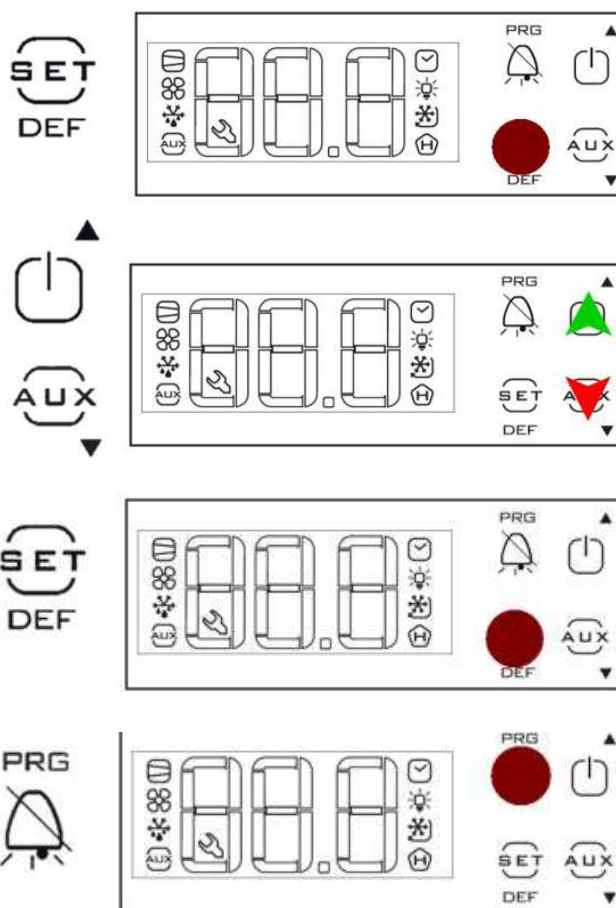


MANUAL DEFROST

Press the SET button.

(5-second long press)

The message DEF shows on the display.



HOW TO MODIFY DEFROST

Navigate through parameters and change

Parameters to change:

td1-d - 1 defrost per day (11:30)

td1-h - 1st defrost hour

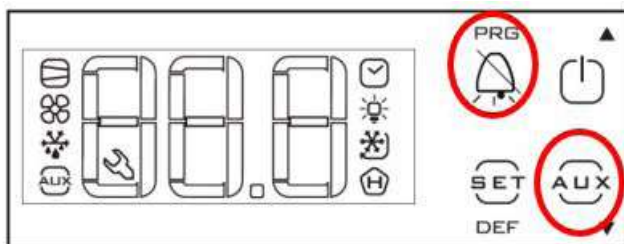
td1-n - 1st defrost minute

Validate with the **SET** button

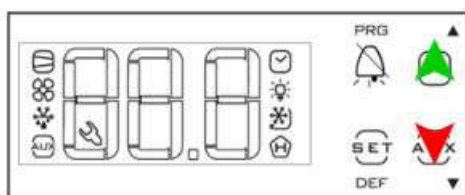
Save with the **PRG** button (long press)

MEDIUM TEMPERATURE MODE - FREEZER MODE CHANGE

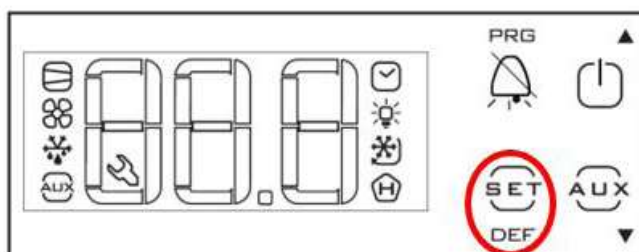
1. Press and hold the PRG button + Down Arrow (AUX) button until “bn0” appears in the display. During the process the controller will restart. Always hold the button until “bn0” appears.



2. The display shows the value “bn0”.
3. Use the buttons “up” and “down” to switch between the possible settings:
 - a. bn1 – Freezer mode
 - b. bn2 – Medium Temperature mode



4. Press the “SET” button to select the desired mode. The controller will restart.

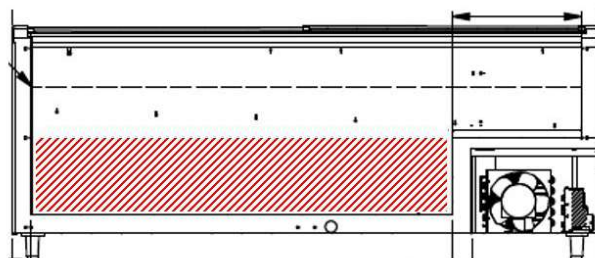


5. After restart, press the “SET” button to verify the Setpoint.

CAUTION

In medium temp mode, the wire rack shelving needs to be above the compressor bay to prevent freezing of product.

In medium temperature mode, the products should be used above the compressor bay line (the temperature in the bottom could be too low).



CONTROLLER OPERATION

(Carel IJF)

The electronic controller is located at the lower, righthand front of the case. The controller comes factory set and is ready for use. The cases have predetermined factory temperature settings. Activate manual defrost in the Applica App by pressing the defrost icon for 1 second. The factory setting is -15° F to hold ice cream temperatures. The case setpoint has been factory set, but the clock must be set to the local time. Is the case set to defrost at 11:00 pm? Are the lights set to come on at 6:00 am? And turn off at 10 pm?

2. Display Panel

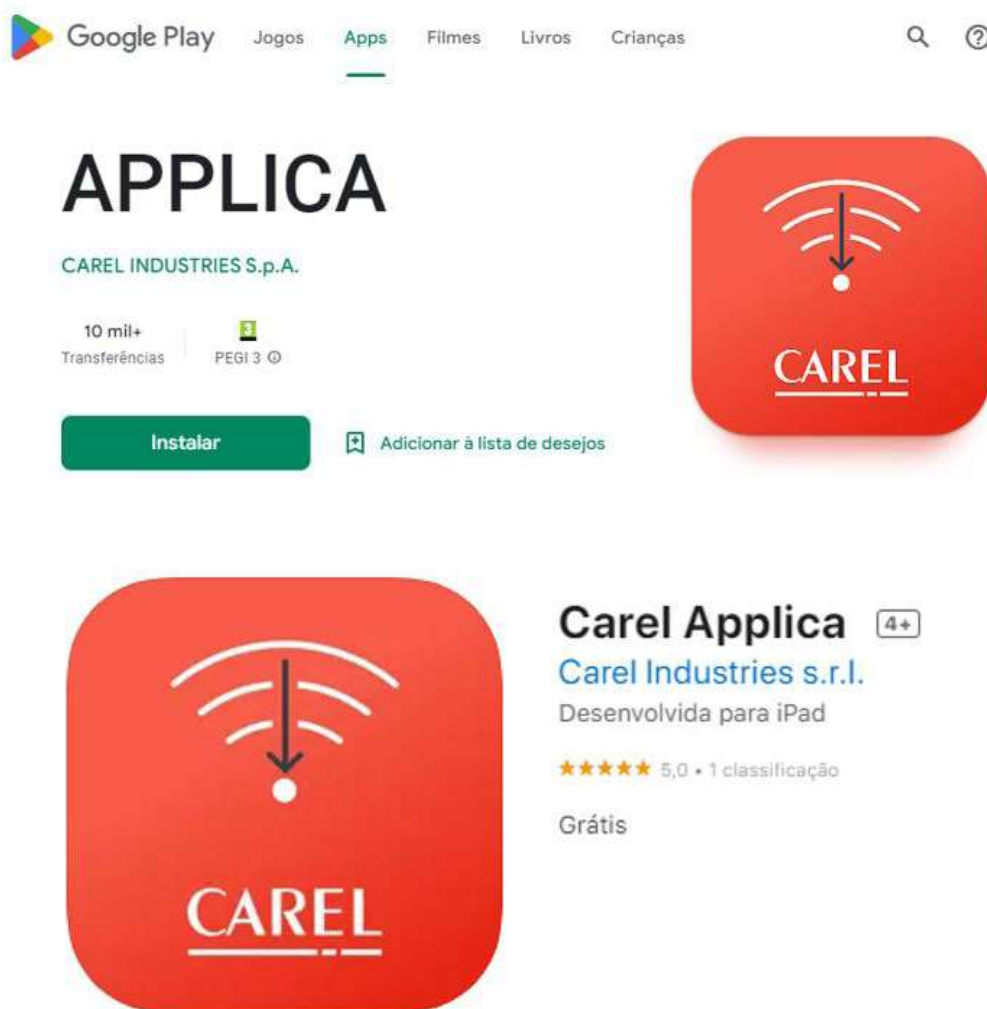


APPLICA CAREL SOFTWARE

Carel apps can be used to configure the controller from a mobile device (smartphone, tablet), via NFC (Near Field Communication) or BLE (Bluetooth Low Energy).

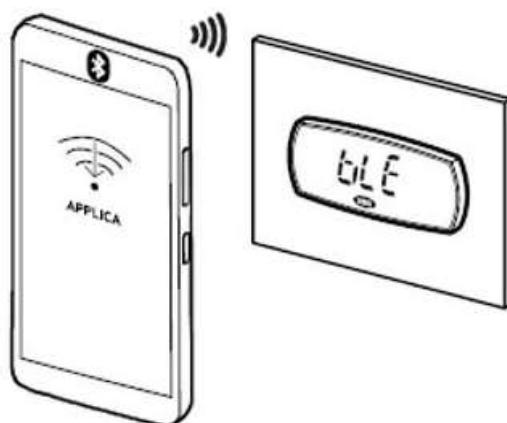
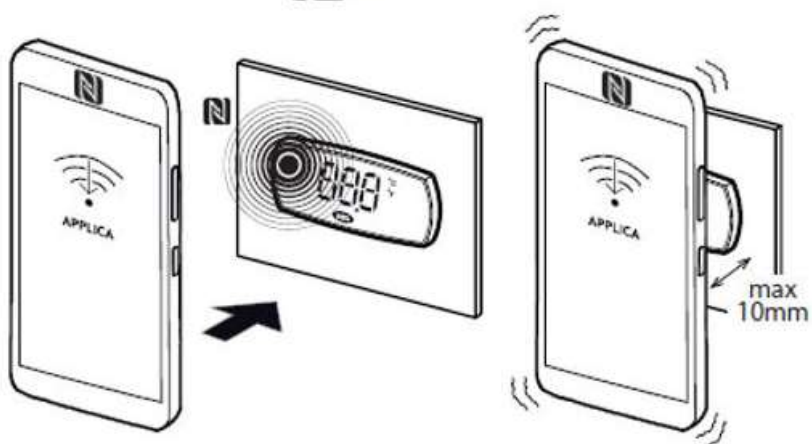
Supported Devices: Android 5.1, iOS 10, Bluetooth® 4.0 and above.

Software can be downloaded from Google Play Store or Apple App Store





Need to choose NFC or Bluetooth connection.



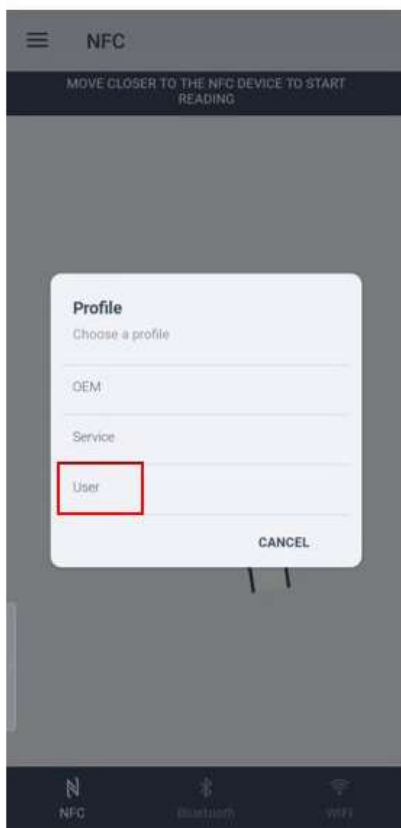
Make sure NFC or Bluetooth has been activated. Some smartphones may have problems if the location is not enabled.



During Bluetooth® connection, the iJF user terminal is disabled and shows the message “bLE.”

APPLICA SOFTWARE - NFC CONNECTION

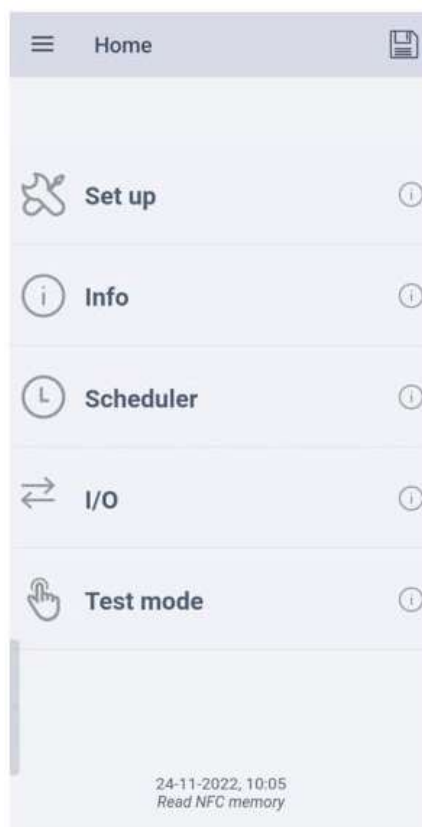
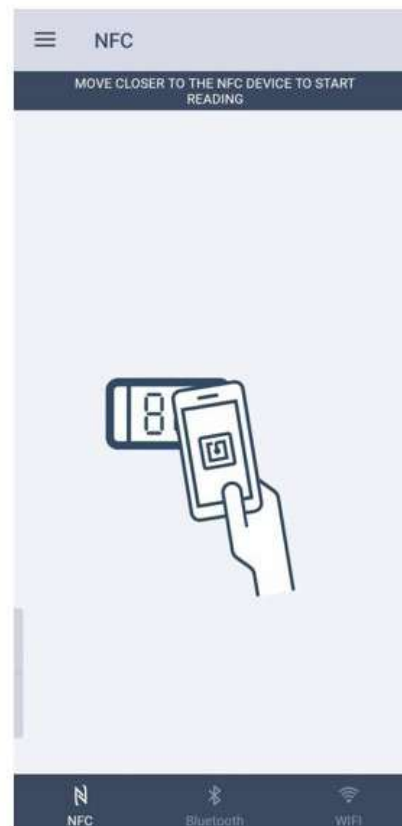
It is necessary to touch the mobile phone (the zone where the NFC is) to the controller (front panel) to read the data from the controller.



Password Menu

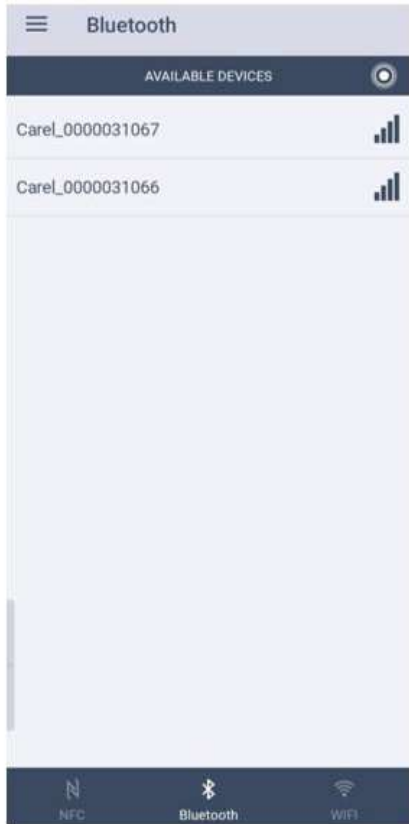
User password: 0

Service password: 22

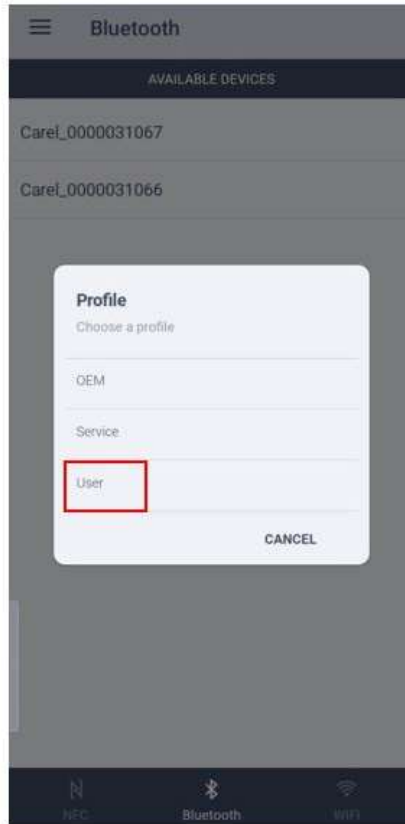


NFC Home Menu

APPLICA SOFTWARE - BLUETOOTH CONNECTION

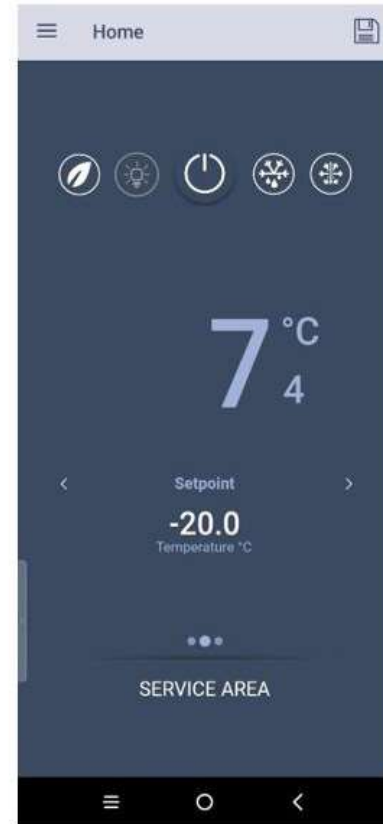


Need to select the correct controller (the one with the strongest signal - closest)



Password Menu

User password: 0
Service password: 22



Bluetooth Home Menu

APPLICA SOFTWARE - PERFORM MANUAL DEFROST

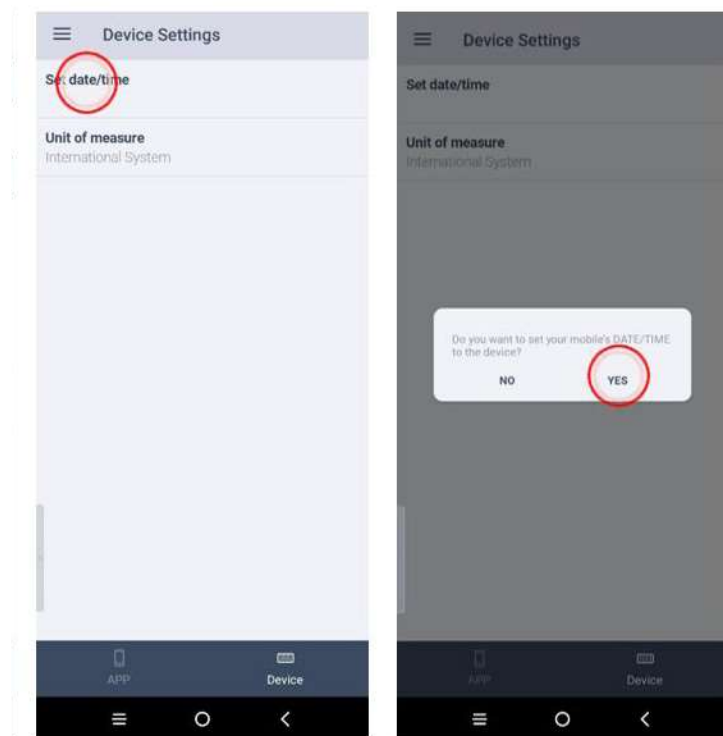
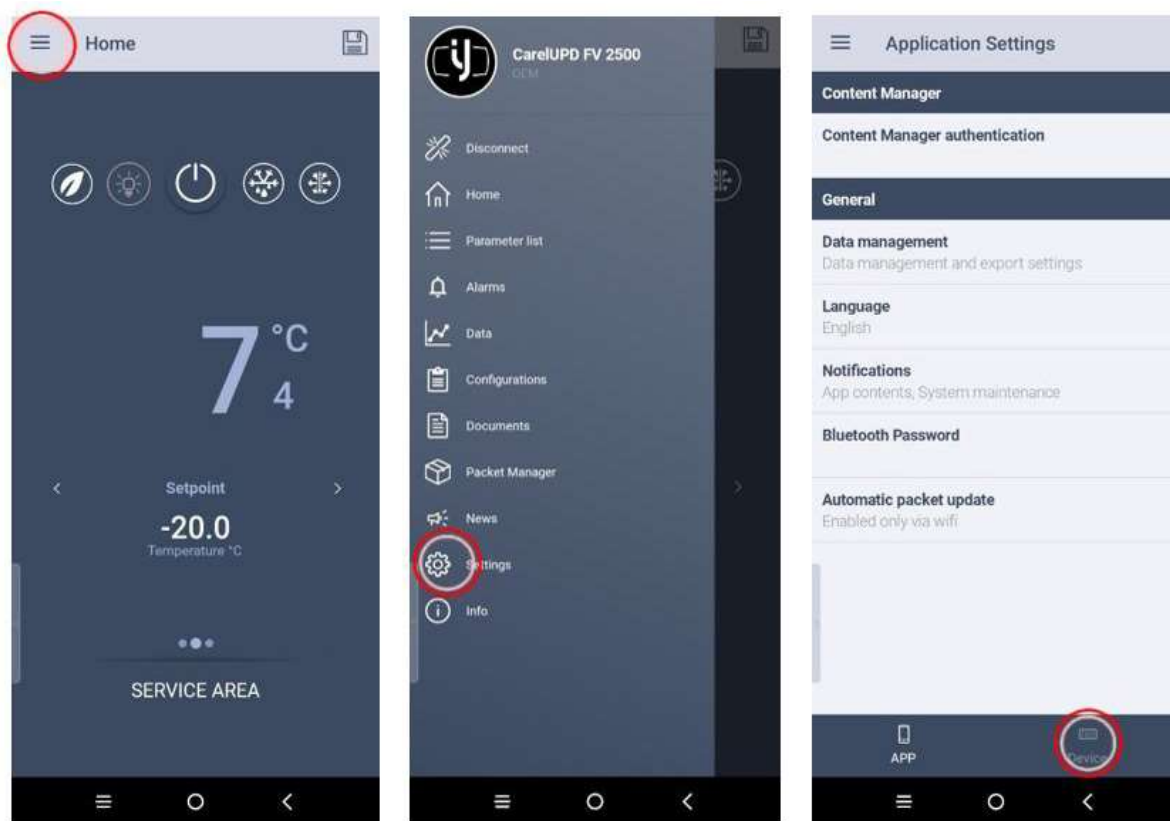
1. Press




2. Check if the icon
changes color

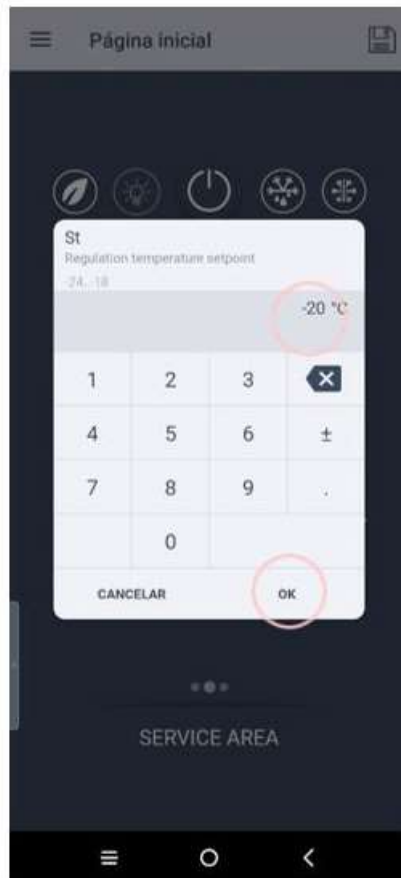


APPLICA SOFTWARE - UPDATE REAL TIME CLOCK



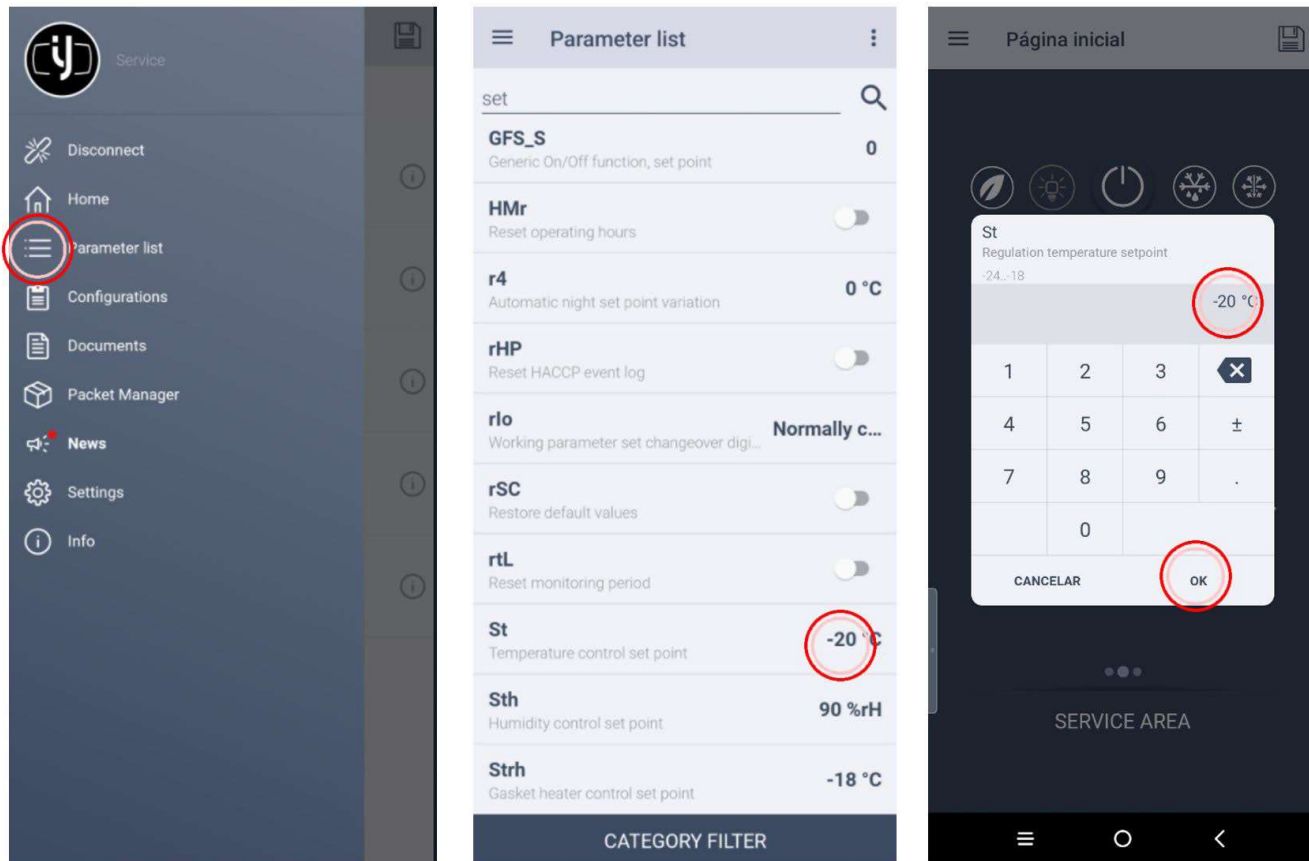
1. Press 
2. Press SETTINGS
3. Press DEVICE
4. Press SET DATE / TIME
5. Select YES




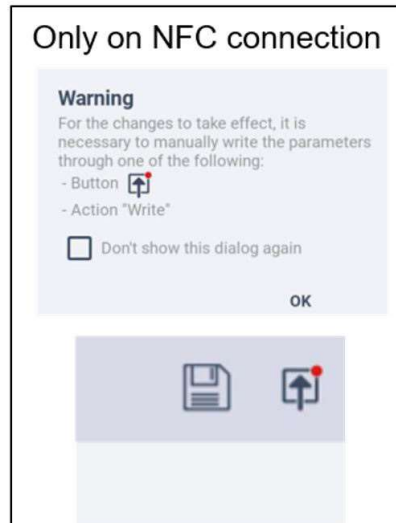
APPLICA SOFTWARE - SET-POINT ADJUSTMENT (BLUETOOTH)

1. Press SETPOINT
2. Introduce the new value
3. Press OK

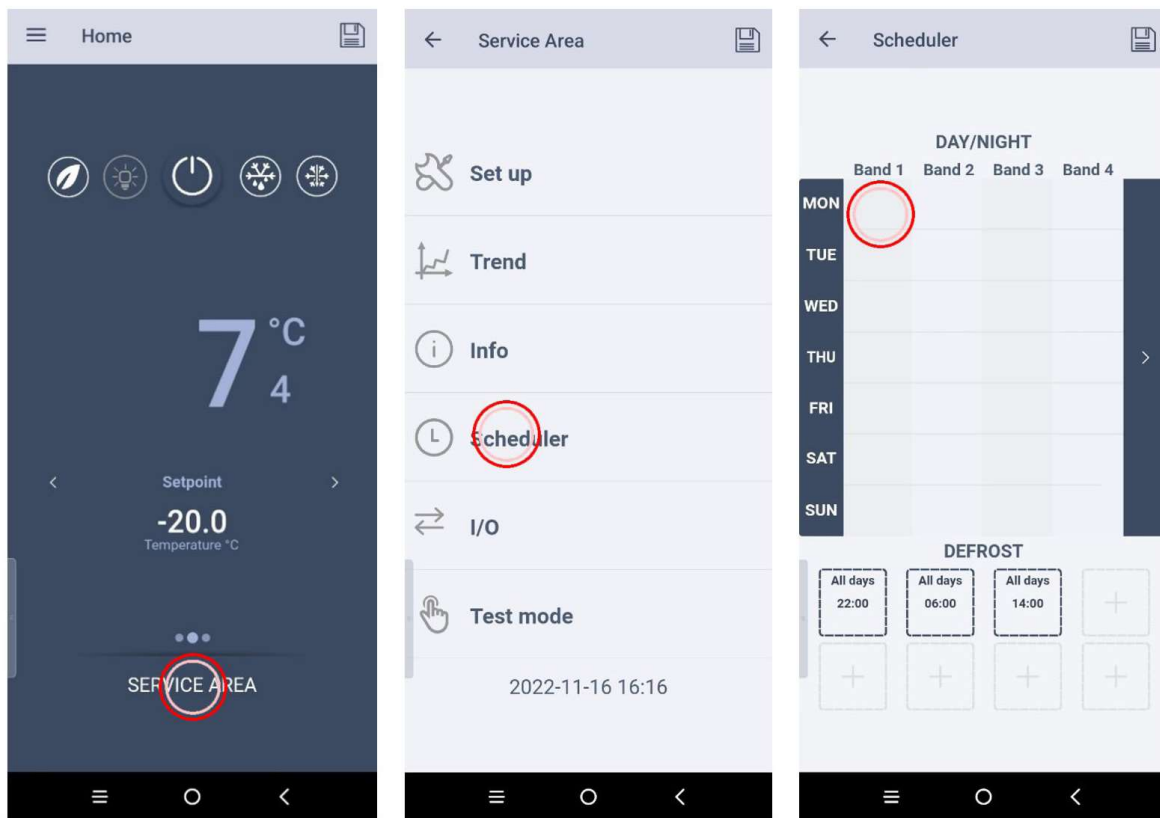
APPLICA SOFTWARE - SET-POINT ADJUSTMENT (NFC)



1. Press 
2. Press PARAMETER LIST
3. Find and select ST
4. Introduce new value
5. Select OK



APPLICA SOFTWARE - LIGHT SCHEDULE ADJUSTMENT



Only on bluetooth connection

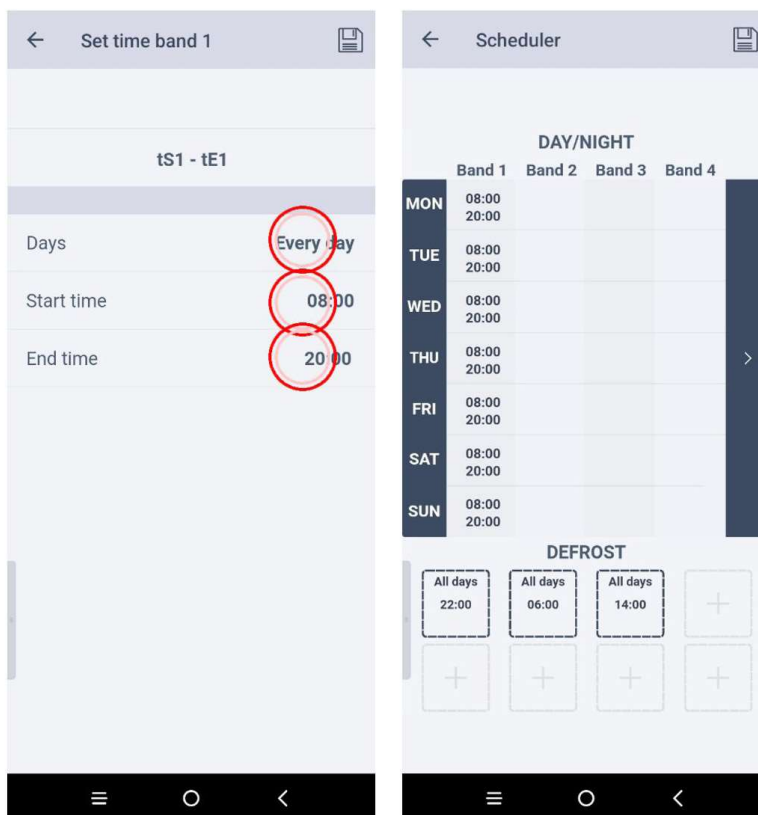
1. Press SERVICE AREA

2. Press SCHEDULER

3. Press BAND 1

4. Introduce new values

5. Check schedule



Only on NFC connection

Warning

For the changes to take effect, it is necessary to manually write the parameters through one of the following:

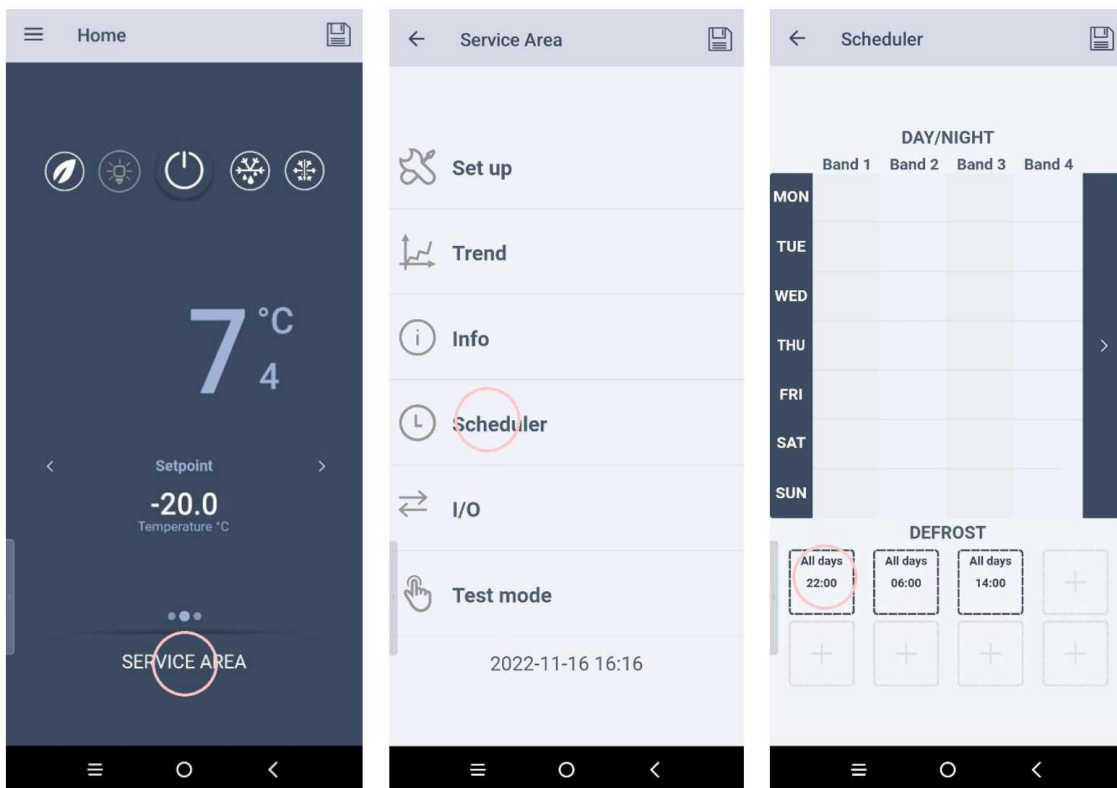
- Button 
- Action "Write"

☐ Don't show this dialog again

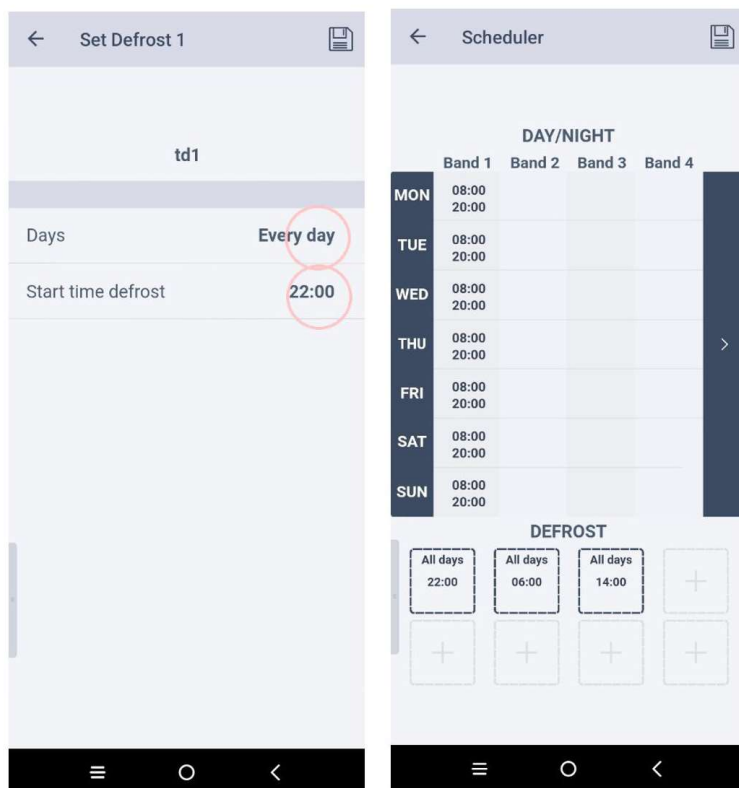
OK



APPLICA SOFTWARE - DEFROST SCHEDULE ADJUSTMENT



Only on bluetooth connection



1. Press SERVICE AREA (only Bluetooth)
2. Press SCHEDULER
3. Press + ON DEFROST
4. Introduce new values
5. Check schedule

Only on NFC connection

Warning

For the changes to take effect, it is necessary to manually write the parameters through one of the following:

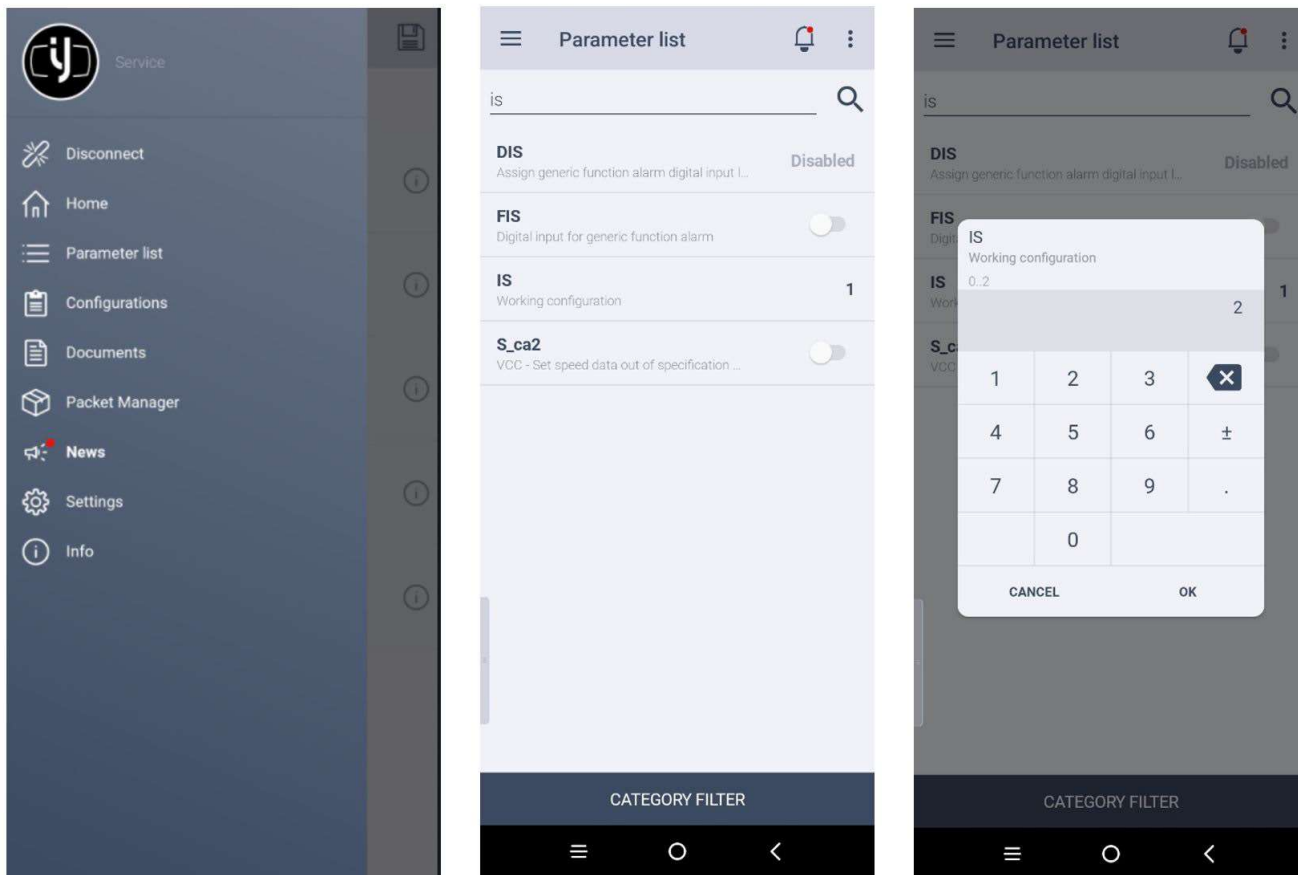
- Button 
- Action "Write"


☐ Don't show this dialog again

OK

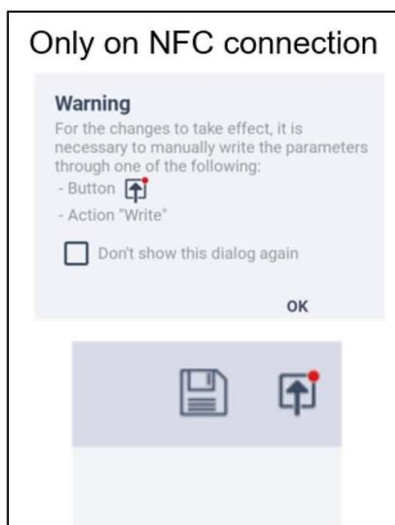


APPLICA SOFTWARE - Change between freezer & chiller parameters



1. Press 
2. Press PARAMETER LIST
3. Find and select "is"
4. Introduce new values
5. Select OK

1 - FREEZER
2 - CHILLER



LOAD LIMITS

Each merchandiser has a load limit decal around the perimeter of the interior. Make sure product is loaded below limit so that refrigeration performance and storage temperature is not disrupted. Shelf life of perishables will be short if load limit is violated.

AT NO TIME SHOULD MERCHANDISERS BE STOCKED BEYOND THE LOAD LIMITS INDICATED.



STOCKING

Product should **NOT** be placed inside the case until case is at proper operating temperature.

Allow merchandiser 24 hours to operate before loading product. Verify case pulls down to setpoint temperature.

These cases come with lids. The lids are necessary for the case to operate properly and keep the correct temperature. They should only be opened to place and remove products. They must be closed immediately afterwards.

Use gloves to protect the hands when loading frozen products. Proper rotation of product during stocking is necessary to prevent product loss. Always bring the oldest product to the top and set the newest to the bottom.

The wall and floor racks should always be installed in the case. The racks must be used to prevent products from touching the edges of the case thawing when the case is in defrost mode.



MAINTENANCE

WARNING

Disconnect electrical power before servicing. Unplug the unit from the socket.

CARE AND CLEANING

Long life and satisfactory performance of any equipment is dependent upon the care it receives. To ensure long life, proper sanitation and minimum maintenance costs, these merchandisers should be completely defrosted semi-annually. Ice accumulation is a normal phenomenon. The quantity and speed in which ice accumulates depend on environmental conditions and the frequency in which the lids are opened.

Exterior Surfaces

The exterior surfaces and the exterior lids must be cleaned with a mild detergent and warm water to protect and maintain their attractive finish. **NEVER USE ABRASIVE CLEANSERS, ABRASIVE MATERIALS OR SCOURING PADS.**

Interior Surfaces

The interior surfaces may be cleaned with most domestic detergents, ammonia based cleaners and sanitizing solutions with no harm to the surface. The inner part of the lids can only be cleaned with a soft cloth soaked with a solution of 90% distilled water and 10% isopropyl alcohol. Cleaning products can destroy the covering.

WARNING

Product will be degraded and may spoil if allowed to sit in a non-refrigerated area. Do NOT allow cleaning agent or cloth to contact food product.

Do NOT USE:

- Abrasive cleansers and scouring pads, as these will mar the finish.
- Coarse paper towels on coated glass.
- Ammonia-based cleaners on acrylic parts.
- Solvent, oil or acidic based cleaners on any interior surfaces.
- Do not use high pressure water hoses.
- Remove fixed parts for cleaning.
- Heaters or sharp objects for defrosting.
- Do NOT flood merchandiser with water.

NEVER INTRODUCE WATER FASTER THAN THE WASTE OUTLET CAN REMOVE IT.

WARNING

Do NOT use HOT water on Cold glass Surfaces. This can cause the glass to shatter and could result in personal injury. Allow glass fronts, to warm before applying hot water.

WARNING

Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

Do not use electrical appliances inside the food storage compartments of the case(s), unless they are of the type recommended by the manufacturer.

Do:

- Remove the product and all loose debris to avoid clogging the waste outlet.
- Store product in a refrigerated area such as a cooler. Remove only as much product as can be taken to the cooler in a timely manner.
- Thoroughly clean all surfaces with soap and hot water. **DO NOT USE STEAM OR HIGH WATER PRESSURE HOSES TO WASH THE INTERIOR. THESE WILL DESTROY THE MERCHANTISERS' SEALING CAUSING LEAKS AND POOR PERFORMANCE.**
- Clean and dry equipment with a soft cloth. Allow merchandisers to dry before resuming operation.
- After cleaning is completed, turn on power to the merchandiser. Allow case to reach operational temperature before stocking with product.

REMOVING SCRATCHES FROM BUMPER

Most scratches and dings can be removed using the following procedure.

1. Use steel wool to smooth out the surface area of the bumper.
2. Clean area.
3. Apply vinyl or car wax and polish surface for a smooth glossy finish.

**WARNING**

**SHUT FANS OFF DURING
CLEANING PROCESS.**

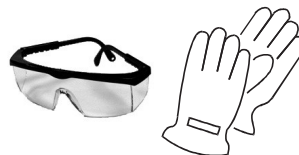
CLEANING CONDENSER

The condensing unit area may be cleaned with a vacuum using a wand attachment to suck up dirt and debris. It should be cleaned at minimum of twice a year. While cleaning, be careful not to bend any tube or disconnect electrical wires. A dirty condenser blocks normal airflow through the coils, which increases energy consumption and reduces performance.

NEVER USE SHARP OBJECTS AROUND COILS. Do not puncture coils! Do not bend fins. Contact an authorized service technician if a coil is punctured, cracked, or otherwise damaged. **ICE** in or on the coil indicates the refrigeration and defrost cycle is not operating properly. Contact an authorized service technician to determine the cause of icing, and to make adjustments as necessary. To maintain product integrity, move all product to a cooler until the unit has returned to normal operating temperatures.



Wear Safety Glasses and Gloves to perform this maintenance.



CLEANING GLASS LIDS

Cleaning with cloth with abrasive microfibers and all types of coarse sponges is prohibited.

Make sure that large quantities of water are not applied on the glass surfaces to be cleaned and that the surfaces are thoroughly dry afterward.

CAUTION

The inner part of the lids can only be cleaned with a soft cotton cloth soaked with a solution: of 90% distilled water and 10% isopropyl alcohol. Cleaning products can destroy the covering. The outer parts of the lids can be cleaned with normal cleaning products.

CLEANING THE DEFROST CHANNEL

Drench a piece of cloth with a non-reactive cleaning product to cleanse the defrost channel.



A paint brush is recommended to clean the defrost channel corners.



CONDENSATE PAN CLEANING



Top View of Drain Piping

Remove the condensate pan as shown in the photos below.



Condensate Pan Installed



Condensate Pan Removed

After cleaning, reinstall the condensate pan.

Do not use abrasive materials or mops as they will definitively damage the merchandiser's surface. Do not remove fixed parts for cleaning. If necessary, they must be cleaned by qualified personnel. If any component is damaged, it must be replaced by an individual qualified for this task.

Self-Contained Refrigeration Equipment Maintenance Check List

***** Warranty does not cover issues caused by improper installation or lack of basic preventative maintenance. *****										
Record starting date										
Store Name and Number										
Store Address										
Unit Model Number										
Unit Serial Number										
Contractor/Technician										

	Technician									
	PM date									

PM activity-For visual inspection items, denote "ok or complete" in the column to right when PM has been performed. For measured data requested, record data requested in the appropriate column to the right)	Quarterly	Semi-Annually	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Check in with store manager, record any complaints or issues they have with unit.	X									
Look unit over for any damage, vibrations or abnormal noise.	X									
Verify unit is level side to side and front to rear.	X									
Confirm refrigerant lines properly are secured and not touching or rubbing other lines, wires or frame work.	X									
Verify fan motors and motor mounts are tight.	X									
Confirm fan blade/s are tight and not rubbing or hitting.	X									
Make sure all electrical connections, factory and field, are tight.	X									
Verify electrical connections at lamps are they secure and dry.	X									
Check for and replace any frayed or chaffed wiring.	X									
Check all electrical wiring make sure it is secured and not on any sharp edges or hot lines.	X									
Check for air disturbances external to the unit. Heat and air registers, fans, and doors etc.	X									
Check for water leaks.	X									
Clean evaporator coil/s and fan blade/s. Do not use an acid base cleaner. Rinse off any cleaner residue.		X								
Clean discharge air honeycombs or grilles. Do not use an acid base cleaner. Rinse off any cleaner residue.		X								
Clean condenser coil/s and fan blade/s. Do not use an acid base Cleaner. Rinse off any cleaner residue.		X								
Clean condensate drain pan and drain line.		X								
Verify condensate drain lines are clear and functioning.		X								
Record voltage reading at unit with unit off?		X								
Verify condenser and evaporator fans are working.	X									
Record condenser air inlet temperature	X									
Record condenser air outlet temperature	X									
Is condenser air inlet or air exhaust restricted or recirculating?	X									
Verify there are no visual oil or refrigerant leaks.	X									
Record voltage reading with unit running.		X								
Record compressor amp draw.		X								
Record defrost heater voltage and amp draw.		X								
Record anti-sweat heater voltage and amp draw.		X								
Record case product temperature.	X									
Record unit discharge air temperature.	X									
Record unit return air temperature.	X									
Record ambient conditions around unit (wet Bulb temperature and dry bulb temperature).	X									
Check product loading, do not load beyond the units load limits.	X									
Verify clearances on sides/back of unit.	X									
Check unit controller for proper operation. See controller or I/O Manual for proper controller operation.		X								
Confirm door switches function.	X									
Verify unit doors and lids work and are sealed correctly.	X									
Verify that all the panels, shields and covers are in place.	X									

Technician Notes:

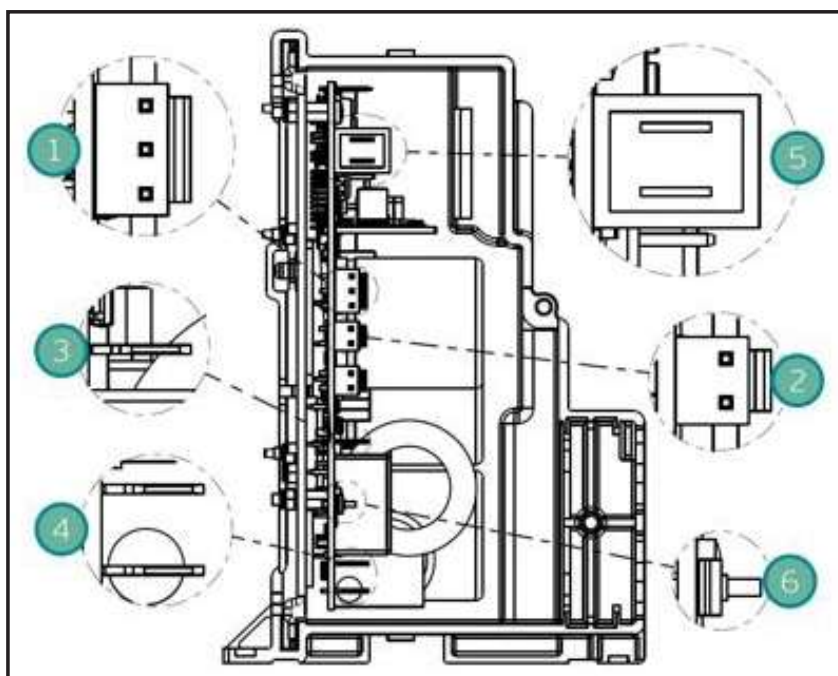
SERVICE

INVERTER

The Inverter has two diagnostics methods, by visual light emission using a LED indication, or by serial communication protocol.

1. Serial Communication
2. Frequency input
3. Drop in
4. AC input (L+N)
5. AC Fan
6. EMI Earth Cable

LED Status	Period	Color	Description
1 Flash	30 seconds	Green 	Normal operation
2 Flashes	5 seconds	Green 	Communication problem
3 Flashes	5 seconds	Red 	Inverter problem
4 Flashes	5 seconds	Orange 	Compressor problem
No Flash	-	-	No input power / Damaged inverter



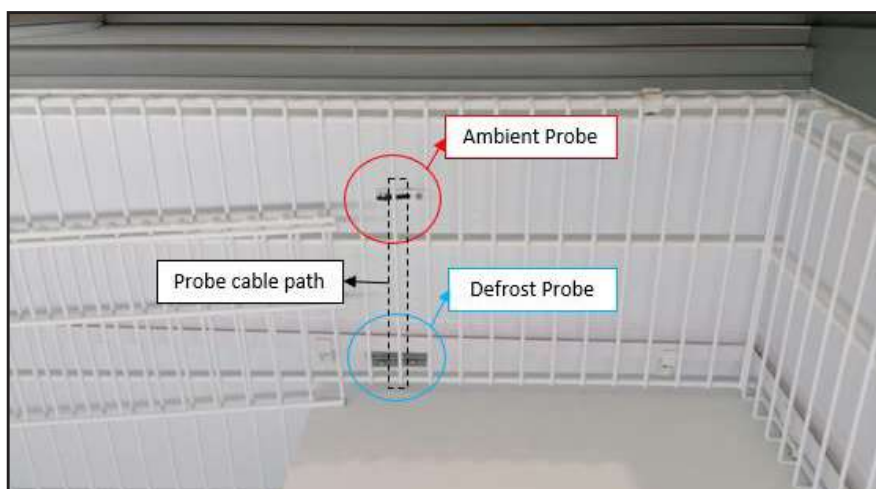
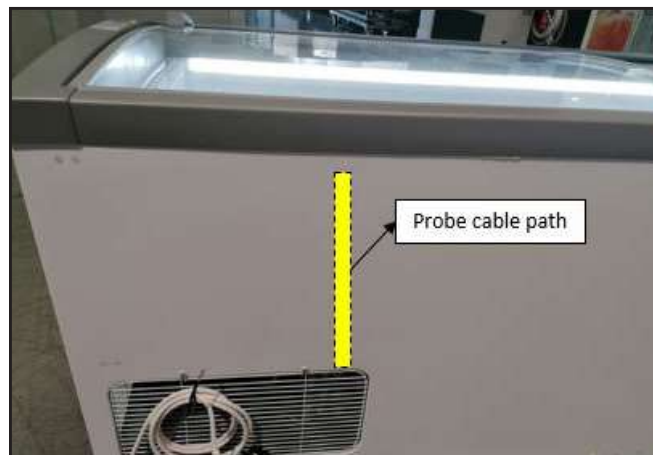
WARNING

— LOCK OUT / TAG OUT —

To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.

SENSOR REPLACEMENT

1. Disconnect the probe on the controller
2. Remove from the holder, and pull the cable.
3. Pass the new probe.
4. Connect to controller

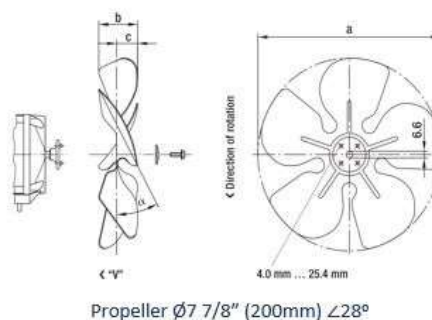
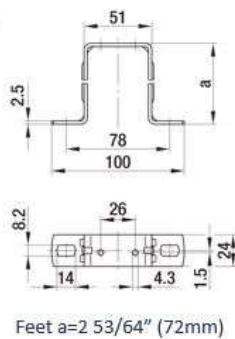


FAN MOTOR

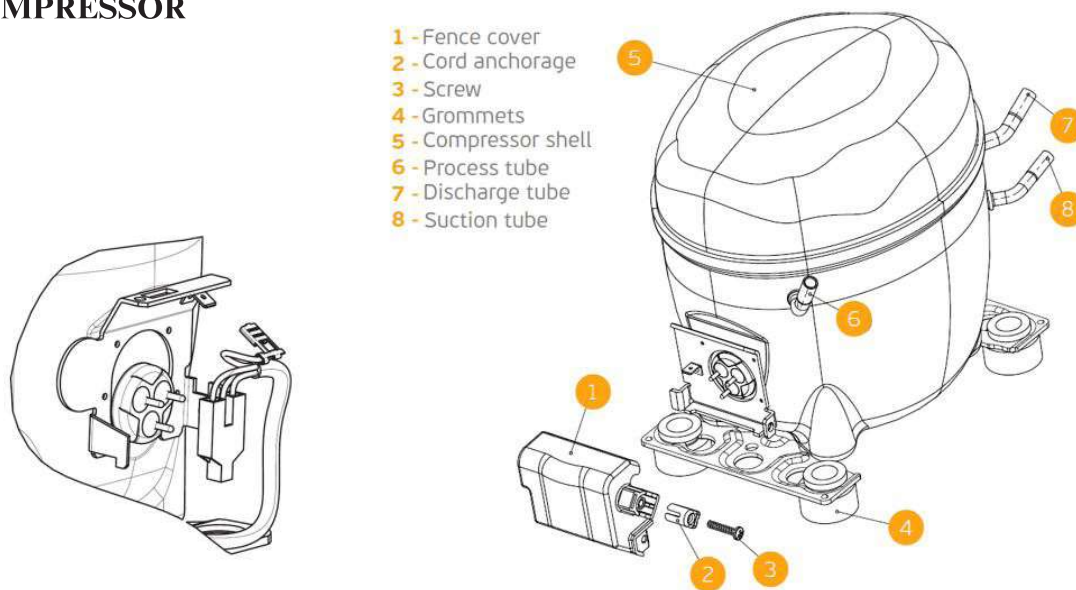


EBM NiQ3212

Type	NiQ3212-330450-V48.12-193
Field of application	Motor for axial blowers in refrigerating appliances
Electrical rating	100-240 V AC 50/60 Hz max. 25 W 425 mA
Speed	1550 rpm
Inrush current	20 A
Direction of rotation	Counter-Clockwise

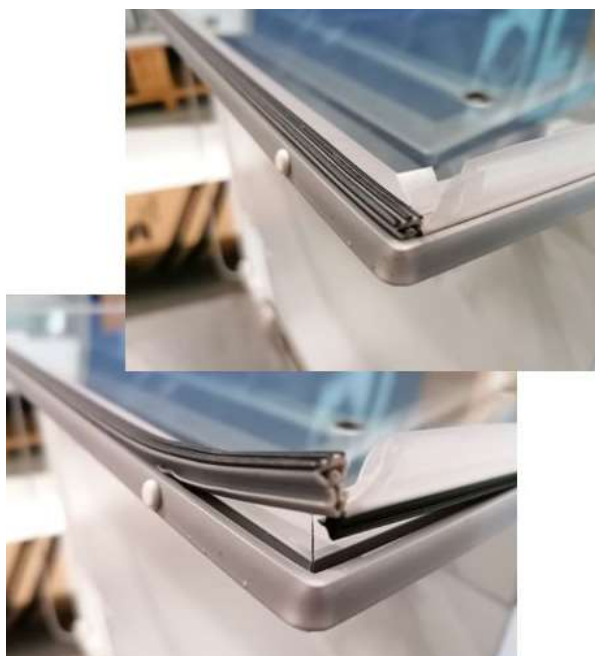
Propeller $\varnothing 7 \frac{7}{8}$ " (200mm) $\angle 28^\circ$

COMPRESSOR



REPLACING GASKETS

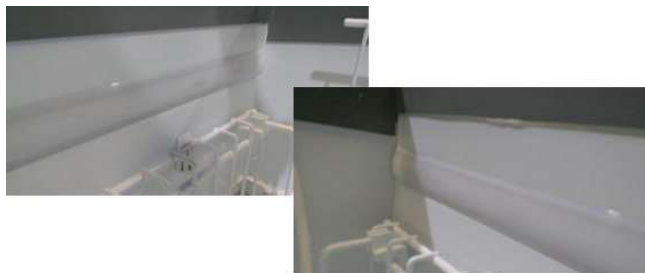
The gaskets is held in place with clips. Remove the clips to pull out the gasket. The lower lid middle gasket is glued to the lid.



REPLACING LED LIGHTING

To remove the front LED bar:

1. Disconnect connector (compressor zone).
2. Remove cover.
3. Remove the LED bar from the metal brackets.
4. Remove the Cable.



To replace the front LED bar:

1. Insert cable on in the pipe
2. Fix the LED bar to the metal brackets
3. Fix the diffuser
4. Connect cable to power driver

To remove the rear LED bar:

1. Disconnect connector (compressor zone).
2. Remove LED bar from plastic profile.
3. Remove Cable.

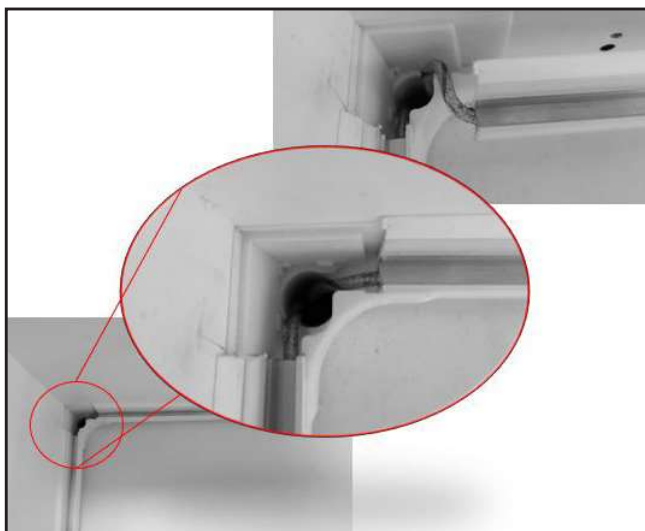
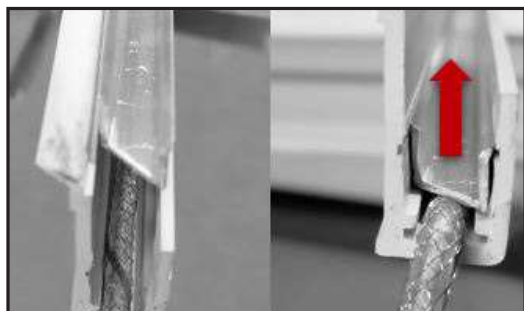


To replace the rear LED bar:

1. Insert cable on in the pipe.
2. Fix LED bar to plastic profile.
3. Connect cable to power drive.

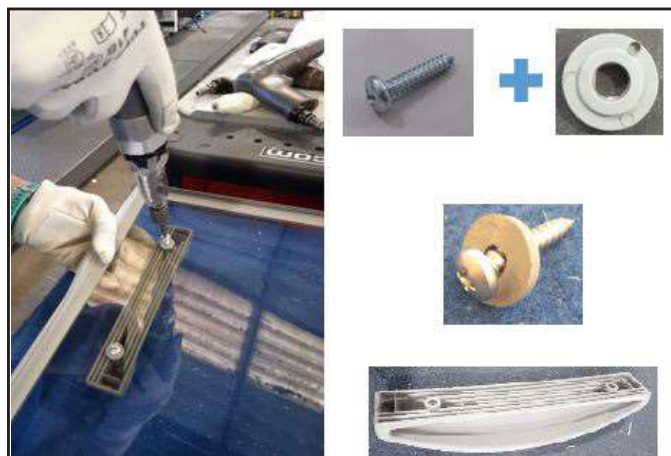
REPLACING DRAIN HEATER

1. Remove product and wire shelves.
2. Disconnect heater from the connection box.
3. Remove the rail, and separate the aluminum from the plastic profile.
4. Replace with new heater.



REPLACING LID HANDLES

Handles are held in place by two screws and plastic rings. Contact your Husmann representative to obtain replacement parts.



REPLACING BUMPERS

The bumper is attached by a holder screwed to the cabinet. To replace it, pull it out and then place the new one using a rolling movement.

The bumper ends are attached with screws.



CASE PROBLEM / RESOLUTION GUIDE

Use the following as a checklist for discovering and correcting problems with the operation of this case.

- ☐ Check if there is an electric current.
- ☐ Check if the plug is properly inserted in the source outlet and if the voltage and frequency are appropriate for operation.

Unsatisfactory case temperature:

- ☐ Check that the unit has been running long enough to have reached desired temperature.
- ☐ Check that the appliance is not near an air current or a heat source.
- ☐ Check that the lids are closing properly.
- ☐ Check the temperature regulation.
- ☐ Check that the products stocked in the case do not exceed the indicated load limit.
- ☐ Check if the room and defrosting probe thermostats are turned on correctly.
- ☐ Check that the condenser fan and the condenser is operating and are unobstructed.

Very noisy equipment

- ☐ Check that the appliance is placed on an even surface.
- ☐ Check that vents are unobstructed.
- ☐ Check if the screws and nuts are perfectly secure.
- ☐ Check if the cooling fan has any problems or does not operate properly.
- ☐ Check if the compressor has any problems or does not operate properly.
- ☐ Check if any of the condenser's support parts are loose or broken.

LED lighting does not operate:

- ☐ Check if lighting has power.
- ☐ Check if lighting was turned off by timer (Care Control Panel).

CASE PROBLEM / RESOLUTION GUIDE

Use the following as a checklist for discovering and correcting problems with the operation of this case.

Lots of ice on equipment walls

- ☐ Check if the AD equipment executes automatic defrosting.
- ☐ Check if the lids are sealing correctly.
- ☐ Check if the products are touching the interior walls.
- ☐ Check if the defrost gutter resistance is damaged.
- ☐ Check that the products stocked in the case do not exceed the indicated load limit.
- ☐ Check if the room and defrosting probe thermostats are turned on correctly.
- ☐ Check that local temperature and relative humidity conditions exceed the equipment's climate classification (found on the characteristics label).

High electric energy consumption

- ☐ Check if the set point is at maximum.
- ☐ Check if the condenser is blocked.
- ☐ Check if the lids are properly closed.
- ☐ Check if the local conditions exceed the equipment's climate classification (found on the characteristics label).
- ☐ Check the equipment's ventilation channels (correct distance between objects or if cooling fan motor is operating).

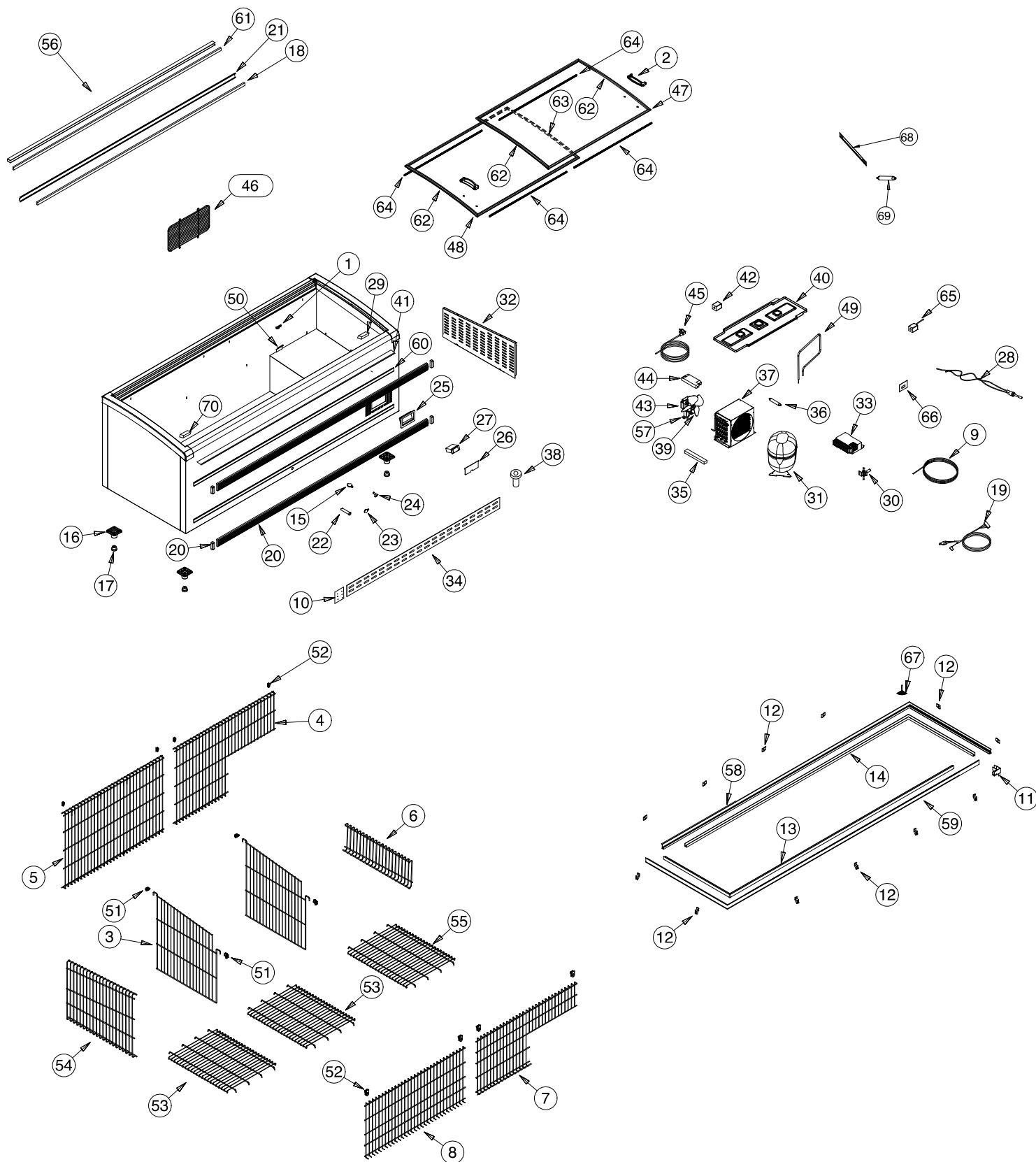
Condensation inside of case cabinet

- ☐ Check if the set point is at maximum.
- ☐ Check if products are over the load limit.
- ☐ Check if the glass is dirty or obstructed with adhesives.
- ☐ Check if external conditions exceed the limit of the equipment's normal operation.

If none of these situations resolves the issue, please call your Hussmann representative.

CASE EXPLODED PART VIEWS

BNKR1700A



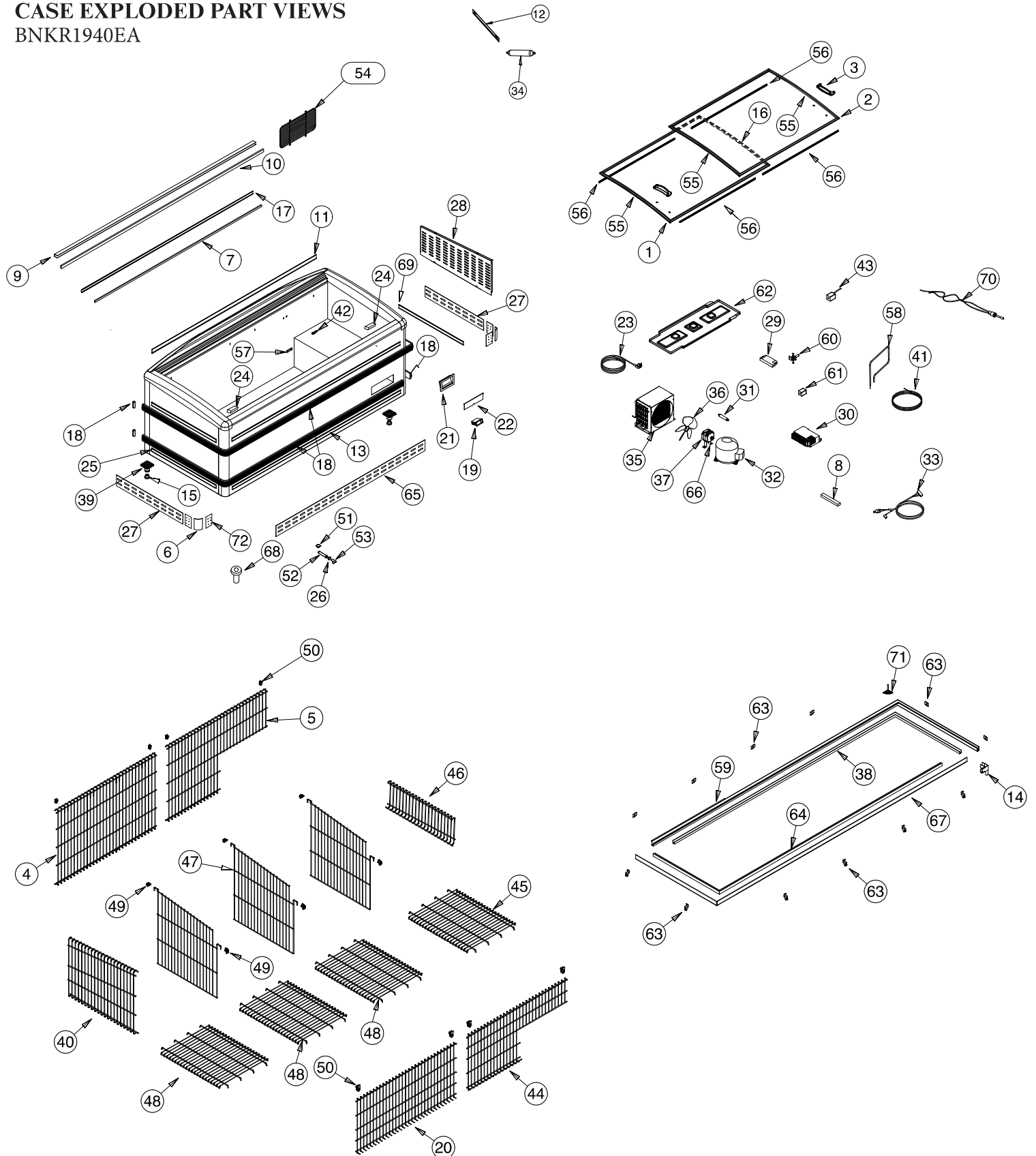
CASE EXPLODED PARTS
BNKR1700A

PARTS LIST			PARTS LIST		
ITEM	PART NUMBER	TITLE	ITEM	PART NUMBER	TITLE
48a	3123273	GLASS-LID SLIDING GRAY 1700 INFERIOR W HANDLE C093005	48a	3123273	GLASS-LID SLIDING GRAY 1700 INFERIOR W HANDLE C093005
48b	3151623	GLASS-LID SLIDING BLACK 1700 INFERIOR W HANDLE C093109	48b	3151623	GLASS-LID SLIDING BLACK 1700 INFERIOR W HANDLE C093109
49	3123446	HEATER-DEFROST RESISTANCE 031096	49	3123446	HEATER-DEFROST RESISTANCE 031096
50	3113494	PLATE-SUPPORT DEFROST PROBE 5150008	50	3113494	PLATE-SUPPORT DEFROST PROBE 5150008
51a	3113486	DIVIDER-PLASTIC SUPPORT 5110854	51a	3113486	DIVIDER-PLASTIC SUPPORT 5110854
51b	3154680	DIVIDER-PLASTIC SUPPORT BLK 5110450	51b	3154680	DIVIDER-PLASTIC SUPPORT BLK 5110450
52a	3113487	SUPPORT-SHELF PLASTIC WALL 5110851	52a	3113487	SUPPORT-SHELF PLASTIC WALL 5110851
52b	3154679	SUPPORT-SHELF PLASTIC WALL BLK 5110444	52b	3154679	SUPPORT-SHELF PLASTIC WALL BLK 5110444
53a	3113539	SHELF-WIRE 500MM 5130004	53a	3113539	SHELF-WIRE 500MM 5130004
53b	3154688	SHELF-WIRE 500MM BLK 5130312	53b	3154688	SHELF-WIRE 500MM BLK 5130312
54a	3123225	SUPPORT-SIDE SHELF 5130324	54a	3123225	SUPPORT-SIDE SHELF 5130324
54b	3154700	SUPPORT-SIDE SHELF BLK 5130475	54b	3154700	SUPPORT-SIDE SHELF BLK 5130475
55a	3113462	SHELF-WIRE 450MM 5130003	55a	3113462	SHELF-WIRE 450MM 5130003
55b	3154689	SHELF-WIRE 450MM BLK 5130313	55b	3154689	SHELF-WIRE 450MM BLK 5130313
56a	3123447	SUPPORT-PVC LED GRAY 1556MM 011243	56a	3123447	SUPPORT-PVC LED GRAY 1556MM 011243
56b	3151603	SUPPORT-PVC LED BLACK 1556MM 011668	56b	3151603	SUPPORT-PVC LED BLACK 1556MM 011668
57	3113506	SUPPORT-FAN MOTOR 72MM 090988	57	3113506	SUPPORT-FAN MOTOR 72MM 090988
58a	3123303	CHANNEL-DRAIN SUPERIOR 1553X688MM 011595	58a	3123303	CHANNEL-DRAIN SUPERIOR 1553X688MM 011595
58b	3154672	CHANNEL-DRAIN SUPERIOR BLK 1553X688MM 011684	58b	3154672	CHANNEL-DRAIN SUPERIOR BLK 1553X688MM 011684
59a	3123307	CHANNEL-DRAIN INFERIOR 1520X718MM 011599	59a	3123307	CHANNEL-DRAIN INFERIOR 1520X718MM 011599
59b	3154669	CHANNEL-DRAIN INFERIOR BLK 1520X718MM 011659	59b	3154669	CHANNEL-DRAIN INFERIOR BLK 1520X718MM 011659
60	3123312	SUPPORT-BUMPER 1640MM 011458	60	3123312	SUPPORT-BUMPER 1640MM 011458
61	3123448	LED BAR-DIFFUSED 1500MM 5000K ECO AS0C2 031161	61	3123448	LED BAR-DIFFUSED 1500MM 5000K ECO AS0C2 031161
62	3113543	LID-SEAL PROFILE 10 X 760MM 011227	62	3113543	LID-SEAL PROFILE 10 X 760MM 011227
63	3123326	LID-SEAL PROFILE 9MM 011163	63	3123326	LID-SEAL PROFILE 9MM 011163
64	3123449	LID-SLIDING PROFILE 795MM C010829	64	3123449	LID-SLIDING PROFILE 795MM C010829
65	3113517	MODULE-COMMUNICATION IROPZ48500 030572	65	3113517	MODULE-COMMUNICATION IROPZ48500 030572
66	3113530	SUPPORT-JOINERS 5150015	66	3113530	SUPPORT-JOINERS 5150015
67a	3123302	FLITER-DRAIN CHANNEL 5110283	67a	3123302	FLITER-DRAIN CHANNEL 5110283
67b	3154682	FLITER-DRAIN CHANNEL BLK 5110452	67b	3154682	FLITER-DRAIN CHANNEL BLK 5110452
68	3123328	LABEL-CHARGE LEVEL 070006	68	3123328	LABEL-CHARGE LEVEL 070006
69	3123228	FLITER-DEFROSTING 020643	69	3123228	FLITER-DEFROSTING 020643
70a	3123245	STOP-LID LH GRAY 5110937	70a	3123245	STOP-LID LH GRAY 5110937
70b	3151608	STOP-LID LH BLACK 5110457	70b	3151608	STOP-LID LH BLACK 5110457

PARTS LIST			PARTS LIST		
ITEM	PART NUMBER	TITLE	ITEM	PART NUMBER	TITLE
23a	3113457	PLUG-WHITE EXTERIOR DRAIN 5110825	23a	3113457	PLUG-WHITE EXTERIOR DRAIN 5110825
23b	3151604	PLUG-BLACK EXTERIOR DRAIN 5110166	23b	3151604	PLUG-BLACK EXTERIOR DRAIN 5110166
23c	3151605	PLUG-GRAY EXTERIOR DRAIN 5110228	23c	3151605	PLUG-GRAY EXTERIOR DRAIN 5110228
24	3113490	DRAIN-PURGE 5110107	24	3113490	DRAIN-PURGE 5110107
25a	3123327	PANEL-CONTROL W/O SWITCH R7042 5120116	25a	3123327	PANEL-CONTROL W/O SWITCH R7042 5120116
25b	3151610	PANEL-CONTROL W/O SWITCH BLACK 5120301	25b	3151610	PANEL-CONTROL W/O SWITCH BLACK 5120301
26	3123324	LID-ACRILIC FOR CONTROL PANEL 135 X 57 MM 011040	26	3123324	LID-ACRILIC FOR CONTROL PANEL 135 X 57 MM 011040
27	3113449	CONTROLLER-CAREL IR33 VCC 030950	27	3113449	CONTROLLER-CAREL IR33 VCC 030950
28	3129878	SWITCH-HIGH PRESSURE 020638	28	3129878	SWITCH-HIGH PRESSURE 020638
29a	3123246	STOP-LID RH GRAY 5110936	29a	3123246	STOP-LID RH GRAY 5110936
29b	3151609	STOP-LID RH BLACK 5110456	29b	3151609	STOP-LID RH BLACK 5110456
30	3113497	VALVE-025 DEFROST SANHUA 020323	30	3113497	VALVE-025 DEFROST SANHUA 020323
31	3113465	COMPRESSOR-EMBRACO FMT1413U I15-230V-50-60HZ R290 020599	31	3113465	COMPRESSOR-EMBRACO FMT1413U I15-230V-50-60HZ R290 020599
32a	3123322	PLATE-EXT SIDE WHT GRID 5141592	32a	3123322	PLATE-EXT SIDE WHT GRID 5141592
32b	3151614	PLATE-EXT SIDE BLK GRID 5141593	32b	3151614	PLATE-EXT SIDE BLK GRID 5141593
32c	3151616	PLATE-EXT SIDE LIGHT GRAY GRID 5142160	32c	3151616	PLATE-EXT SIDE LIGHT GRAY GRID 5142160
32d	3151617	PLATE-EXT SIDE DARK GRAY GRID 5142161	32d	3151617	PLATE-EXT SIDE DARK GRAY GRID 5142161
33	3113463	INVERTER-FMFT COMPRESSOR FREQUENCY 020604	33	3113463	INVERTER-FMFT COMPRESSOR FREQUENCY 020604
34	3123444	KICK PLATE-FRONT 1700 5180033	34	3123444	KICK PLATE-FRONT 1700 5180033
35	3113379	TRANSFORMER-LED BAR 60W 2X800MM AS0C2 031168	35	3113379	TRANSFORMER-LED BAR 60W 2X800MM AS0C2 031168
36	3113464	FILTER-7.5G IN-6-OUT-3 020564	36	3113464	FILTER-7.5G IN-6-OUT-3 020564
37	3113468	CONDENSER-WIRE ON TUBE 020577	37	3113468	CONDENSER-WIRE ON TUBE 020577
38	3114522	SCREW-KICK PLATE 050316	38	3114522	SCREW-KICK PLATE 050316
39	3113469	FAN BLADE-ASPRANT TUBE HELIX DIA200MM 28DEG 020079	39	3113469	FAN BLADE-ASPRANT TUBE HELIX DIA200MM 28DEG 020079
40	3123329	TRAY-WATER 5120295	40	3123329	TRAY-WATER 5120295
41	3123445	PRICE TAG-HOLDER 1545MM 5110703	41	3123445	PRICE TAG-HOLDER 1545MM 5110703
42	3113498	VALVE-12W 115V SOLENOID DEFROST SANHUA 020607	42	3113498	VALVE-12W 115V SOLENOID DEFROST SANHUA 020607
43	3113470	MOTOR-FAN HIGH EFFICIENCY NQ 020602	43	3113470	MOTOR-FAN HIGH EFFICIENCY NQ 020602
44	3113462	BOX-CONNECTOR 030834	44	3113462	BOX-CONNECTOR 030834
45	3113454	CABLE-POWER 3G14AWG TYPE-B NEMA 5-15P 030221	45	3113454	CABLE-POWER 3G14AWG TYPE-B NEMA 5-15P 030221
46a	3113491	GRID-WIRE RECTANGULAR WHITE EXTERIOR 430X220MM 5130046	46a	3113491	GRID-WIRE RECTANGULAR WHITE EXTERIOR 430X220MM 5130046
46b	3151611	GRID-WIRE RECTANGULAR BLACK EXTERIOR 430X220MM 5130208	46b	3151611	GRID-WIRE RECTANGULAR BLACK EXTERIOR 430X220MM 5130208
46c	3151612	GRID-WIRE RECTANGULAR GRAY EXTERIOR 430X220MM 5130253	46c	3151612	GRID-WIRE RECTANGULAR GRAY EXTERIOR 430X220MM 5130253
47a	3123277	GLASS-LID SLIDING GRAY 1700 SUPERIOR W HANDLE C093006	47a	3123277	GLASS-LID SLIDING GRAY 1700 SUPERIOR W HANDLE C093006
47b	3151624	GLASS-LID SLIDING BLACK 1700 SUPERIOR W HANDLE C093110	47b	3151624	GLASS-LID SLIDING BLACK 1700 SUPERIOR W HANDLE C093110

PARTS LIST			PARTS LIST		
ITEM	PART NUMBER	TITLE	ITEM	PART NUMBER	TITLE
1a	3113477	SUPPORT-PROBE PLASTIC 5111259	1a	3113477	SUPPORT-PROBE PLASTIC 5111259
1b	3154677	SUPPORT-PROBE PLASTIC BLK 5110343	1b	3154677	SUPPORT-PROBE PLASTIC BLK 5110343
2a	3113374	HANDLE-200MM SLIDING LID RAL 7042 W SCREWS C5110549	2a	3113374	HANDLE-200MM SLIDING LID RAL 7042 W SCREWS C5110549
2b	3151629	HANDLE-200MM SLIDING LID BLACK W SCREWS C5110887	2b	3151629	HANDLE-200MM SLIDING LID BLACK W SCREWS C5110887
3a	3113519	DIVIDER-BIG W SUPPORT C5130071	3a	3113519	DIVIDER-BIG W SUPPORT C5130071
3b	3154703	DIVIDER-BIG W SUPPORT BLK C5130307	3b	3154703	DIVIDER-BIG W SUPPORT BLK C5130307
4a	3113520	SUPPORT-SHELF BACK STEP SIDE 5130014	4a	3113520	SUPPORT-SHELF BACK STEP SIDE 5130014
4b	3154686	SUPPORT-SHELF BACK STEP SIDE BLK 5130310	4b	3154686	SUPPORT-SHELF BACK STEP SIDE BLK 5130310
5a	3123441	SUPPORT-BACK SHELF 5130023	5a	3123441	SUPPORT-BACK SHELF 5130023
5b	3154698	SUPPORT-BACK SHELF BLK 5130434	5b	3154698	SUPPORT-BACK SHELF BLK 5130434
6a	3123226	SUPPORT-STEP SIDE SHELF 5130325	6a	3123226	SUPPORT-STEP SIDE SHELF 5130325
6b	3154699	SUPPORT-STEP SIDE SHELF BLK 5130474	6b	3154699	SUPPORT-STEP SIDE SHELF BLK 5130474
7a	3113524	SUPPORT-SHELF FRONT STEP SIDE 5130013	7a	3113524	SUPPORT-SHELF FRONT STEP SIDE 5130013
7b	3154687	SUPPORT-SHELF FRONT STEP SIDE BLK 5130311	7b	3154687	SUPPORT-SHELF FRONT STEP SIDE BLK 5130311
8a	3123442	SUPPORT-FRONT SHELF 5130017	8a	3123442	SUPPORT-FRONT SHELF 5130017
8b	3154697	SUPPORT-FRONT SHELF BLK 5130433	8b	3154697	SUPPORT-FRONT SHELF BLK 5130433
9	3113476	PROBE-NTC015HP00 L5M 030499	9	3113476	PROBE-NTC015HP00 L5M 030499
10	3114521	KICK PLATE-JOIN W SCREWS C5190036	10	3114521	KICK PLATE-JOIN W SCREWS C5190036
11a	3114524	CORNER-DEFROST W HOLE 5110020	11a	3114524	CORNER-DEFROST W HOLE 5110020
11b	3154683	CORNER-DEFROST W HOLE BLK 5110864	11b	3154683	CORNER-DEFROST W HOLE BLK 5110864
12a	3113500	SUPPORT-DRAIN CHANNEL-EVAPORATOR 5110971	12a	3113500	SUPPORT-DRAIN CHANNEL-EVAPORATOR 5110971
12b	3154681	SUPPORT-DRAIN CHANNEL-EVAPORATOR BLK 5110451	12b	3154681	SUPPORT-DRAIN CHANNEL-EVAPORATOR BLK 5110451
13	3123241	CHANNEL-ALUMINIUM INFERIOR 1525X707MM C5150821	13	3123241	CHANNEL-ALUMINIUM INFERIOR 1525X707MM C5150821
14	3123227	CHANNEL-ALUMINIUM SUPERIOR 1545X687MM C5150822	14	3123227	CHANNEL-ALUMINIUM SUPERIOR 1545X687MM C5150822
15a	3113488	PLUG-INTERIOR DRAIN 5110105	15a	3113488	PLUG-INTERIOR DRAIN 5110105
15b	3154677	PLUG-INTERIOR DRAIN BLK 5110204	15b	3154677	PLUG-INTERIOR DRAIN BLK 5110204
16	3113473	LEG-85MM WITH LEVELER C5110220	16	3113473	LEG-85MM WITH LEVELER C5110220
17	3113445	LEVELER-M2 X 50MM 5110017	17	3113445	LEVELER-M2 X 50MM 5110017
18	3123443	LED BAR-1500MM 5000K ECO AS0C2 031160	18	3123443	LED BAR-1500MM 5000K ECO AS0C2 031160
19	3128218	CABLE-FMFT INVERTER 031183	19	3128218	CABLE-FMFT INVERTER 031183
20a	3123247	BUMPER KIT RAL 7016 1 PER CASE C011509	20a	3123247	BUMPER KIT RAL 7016 1 PER CASE C011509
20b	3128219	BUMPER KIT BLACK 1 PER CASE C011054	20b	3128219	BUMPER KIT BLACK 1 PER CASE C011054
21	3123317	DIFFUSER-LIGHT 1552MM 5110566	21	3123317	DIFFUSER-LIGHT 1552MM 5110566
22a	3113489	PPE-WHITE DRAIN 5110347	22a	3113489	PPE-WHITE DRAIN 5110347
22b	3151606	PPE-BLACK DRAIN 5110348	22b	3151606	PPE-BLACK DRAIN 5110348
22c	3151607	PPE-GRAY DRAIN 5110349	22c	3151607	PPE-GRAY DRAIN 5110349

CASE EXPLODED PART VIEWS BNKR1940EA



CASE EXPLODED PARTS
BNKR1940EA

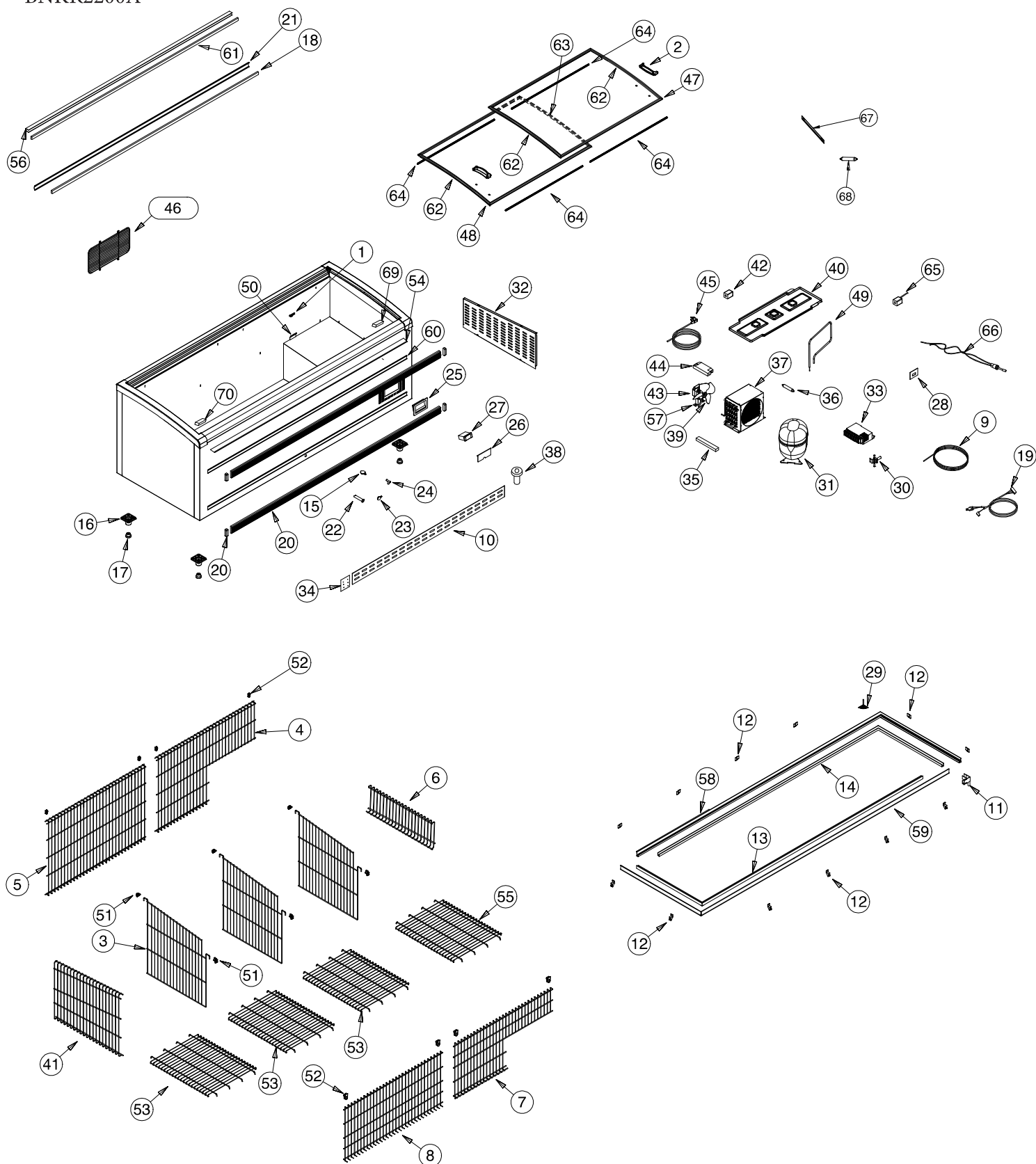
PARTS LIST				PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN	QTY	ITEM	PART NUMBER	CROSS REF PN
49b	3154680	DMIDER-PLASTIC SUPPORT BLK 5110450	5110450	6	55	3113512	SEAL-LID PROFILE 13X76MM 011225
50a	3113487	SUPPORT-SHELF PLASTIC WALL 5110851	5110851	8	56	3113513	EXTRUSION-LID PROFILE 910MM C010834
50b	3154679	SUPPORT-SHELF PLASTIC WALL BLK 5110444	5110444	8	57	3113494	PLATE-SUPPORT DEFROST PROBE 5150008
51a	3113488	PLUG-INTERIOR DRAIN 5110105	5110105	1	58	3113495	HEATER-DEFROST RESISTANCE 031097
51b	3154677	PLUG-INTERIOR DRAIN BLK 5110204	5110204	1	59a	3123304	CHANNEL-DRAIN SUPERIOR 1758X672MM 011596
52a	3113489	PIPE-WHITE DRAIN 5110347	5110347	1	59b	3154674	CHANNEL-DRAIN SUPERIOR BLK 1785X672MM 011695
52b	3151606	PIPE-BLACK DRAIN 5110348	5110348	1	60	3113497	VALVE-0.25 DEFROST SANHUA 020323
52c	3151607	PIPE-GRAY DRAIN 5110349	5110349	1	61	3113498	VALVE-12W 115V SOLENOID DEFROST SANHUA 020607
53	3113490	DRAIN-PURGE 5110107	5110107	1	62	3123329	TRAY-WATER 5120295
54a	3113491	GRID-WIRE RECTANGULAR WHITE EXTERIOR 430X220MM 5130046	5130046	1	63a	3113500	SUPPORT-DRAIN CHANNEL-EVAPORATOR 5110971
54b	3151611	GRID-WIRE RECTANGULAR BLACK EXTERIOR 430X220MM 5130208	5130208	1	63b	3154681	SUPPORT-DRAIN CHANNEL-EVAPORATOR BLK 5110451
54c	3151612	GRID-WIRE RECTANGULAR GRAY EXTERIOR 430X220MM 5130253	5130253	1	64	3123242	CHANNEL-AL INFERIOR 1625X707MM END CASE C5150823
55	3113512	SEAL-LID PROFILE 13X76MM 011225	011225	3	65	3114517	KICK PLATE-FRONT 1940 5190031
56	3113513	EXTRUSION-LID PROFILE 910MM C010834	C010834	4	66	3113506	SUPPORT-FAN MOTOR 72MM 090988
57	3113494	PLATE-SUPPORT DEFROST PROBE 5150008	5150008	1	67a	3123308	CHANNEL-DRAIN INFERIOR 1751X707MM 011600
58	3113495	HEATER-DEFROST RESISTANCE 031097	031097	1	67b	3154673	CHANNEL-DRAIN INFERIOR BLK 1751X707MM 011694
59a	3123304	CHANNEL-DRAIN SUPERIOR 1758X672MM 011596	011596	1	68	3114522	SCREW-KICK PLATE 050316
59b	3154674	CHANNEL-DRAIN SUPERIOR BLK 1785X672MM 011695	011695	1	69	3123316	SUPPORT-BUMPER 720MM 011370
60	3113497	VALVE-0.25 DEFROST SANHUA 020323	020323	1	70	3129878	SWITCH-HIGH PRESSURE 020638
61	3113498	VALVE-12W 115V SOLENOID DEFROST SANHUA 020607	020607	1	71a	3123302	FILTER-DRAIN CHANNEL 5110283
62	3123329	TRAY-WATER 5120295	5120295	1	71b	3154682	FILTER-DRAIN CHANNEL BLK 5110452
63a	3113500	SUPPORT-DRAIN CHANNEL-EVAPORATOR 5110971	5110971	20	72	3114521	KICK PLATE-JOIN W SCREWS C5190036
63b	3154681	SUPPORT-DRAIN CHANNEL-EVAPORATOR BLK 5110451	5110451	20			
64	3123242	CHANNEL-AL INFERIOR 1625X707MM END CASE C5150823	C5150823	1			
65	3114517	KICK PLATE-FRONT 1940 5190031	5190031	1			
66	3113506	SUPPORT-FAN MOTOR 72MM 090988	090988	1			
67a	3123308	CHANNEL-DRAIN INFERIOR 1751X707MM 011600	011600	1			
67b	3154673	CHANNEL-DRAIN INFERIOR BLK 1751X707MM 011694	011694	1			
68	3114522	SCREW-KICK PLATE 050316	050316	20			
69	3123316	SUPPORT-BUMPER 720MM 011370	011370	1			
70	3129878	SWITCH-HIGH PRESSURE 020638	020638	1			
71a	3123302	FILTER-DRAIN CHANNEL 5110283	5110283	1			
71b	3154682	FILTER-DRAIN CHANNEL BLK 5110452	5110452	1			
72	3114521	KICK PLATE-JOIN W SCREWS C5190036	C5190036	5			

PARTS LIST				PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN	QTY	ITEM	PART NUMBER	CROSS REF PN
25	3123315	SUPPORT-BUMPER 768MM 011510	011510	3	25	3123315	SUPPORT-BUMPER 768MM 011510
26a	3113457	PLUG-WHITE EXTERIOR DRAIN 5110825	5110825	1	26a	3113457	PLUG-WHITE EXTERIOR DRAIN 5110825
26b	3151604	PLUG-BLACK EXTERIOR DRAIN 5110166	5110166	1	26b	3151604	PLUG-BLACK EXTERIOR DRAIN 5110166
26c	3151605	PLUG-GRAY EXTERIOR DRAIN 5110228	5110228	1	26c	3151605	PLUG-GRAY EXTERIOR DRAIN 5110228
27	3114520	KICK PLATE-SIDE 5190032	5190032	2	27	3114520	KICK PLATE-SIDE 5190032
28a	3123323	PLATE-EXT WHIT GRID 1940 5141594	5141594	1	28a	3123323	PLATE-EXT WHIT GRID 1940 5141594
28b	3151615	PLATE-EXT BLK GRID 1940 5142098	5142098	1	28b	3151615	PLATE-EXT BLK GRID 1940 5142098
28c	3151618	PLATE-EXT LIGHT GRAY GRID 1940 5142162	5142162	1	28c	3151618	PLATE-EXT LIGHT GRAY GRID 1940 5142162
28d	3151619	PLATE-EXT DARK GRAY GRID 1940 5142163	5142163	1	28d	3151619	PLATE-EXT DARK GRAY GRID 1940 5142163
29	3113462	BOX-CONNECTOR 030834	030834	1	29	3113462	BOX-CONNECTOR 030834
30	3113463	INVERTER-FMCT COMPRESSOR FREQUENCY 020604	020604	1	30	3113463	INVERTER-FMCT COMPRESSOR FREQUENCY 020604
31	3113464	FILTER-7.5G IN-6-OUT-3 020564	020564	1	31	3113464	FILTER-7.5G IN-6-OUT-3 020564
32	3113485	COMPRESSOR-EMRACO FMF1413U 115-230V-50-60HZ R290 020599	020599	1	32	3113485	COMPRESSOR-EMRACO FMF1413U 115-230V-50-60HZ R290 020599
33	3128218	CABLE-RWMT INVERTER 031183	031183	1	33	3128218	CABLE-RWMT INVERTER 031183
34	3123228	FILTER-DEFROSTING 020643	020643	1	34	3123228	FILTER-DEFROSTING 020643
35	3113468	CONDENSER-WIRE ON TUBE 020577	020577	1	35	3113468	CONDENSER-WIRE ON TUBE 020577
36	3113469	FAN BLADE-ASPIRANT TUBE HELIX DIA200MM 28DEG 020079	020079	1	36	3113469	FAN BLADE-ASPIRANT TUBE HELIX DIA200MM 28DEG 020079
37	3113470	MOTOR-FAN HIGH EFFICIENCY IND 020602	020602	1	37	3113470	MOTOR-FAN HIGH EFFICIENCY IND 020602
38	3123233	CHANNEL-AL SUPERIOR 1545X687MM END CASE C5150824	C5150824	1	38	3123233	CHANNEL-AL SUPERIOR 1545X687MM END CASE C5150824
39	3113473	LEG-85MM WITH LEVELER C5110220	C5110220	4	39	3113473	LEG-85MM WITH LEVELER C5110220
40a	3123223	SUPPORT-SIDE SHELF 5130322	5130322	1	40a	3123223	SUPPORT-SIDE SHELF 5130322
40b	3154702	SUPPORT-SIDE SHELF 1940 BLK 5130491	5130491	1	40b	3154702	SUPPORT-SIDE SHELF 1940 BLK 5130491
41	3113476	PROBE-NTC015HP00 15M 030499	030499	2	41	3113476	PROBE-NTC015HP00 15M 030499
42a	3113477	SUPPORT-PROBE PLASTIC 5111259	5111259	1	42a	3113477	SUPPORT-PROBE PLASTIC 5111259
42b	3154678	SUPPORT-PROBE PLASTIC BLK 5110343	5110343	1	42b	3154678	SUPPORT-PROBE PLASTIC BLK 5110343
43	3113517	MODULE-COMMUNICATION IROP748500 030572	030572	1	43	3113517	MODULE-COMMUNICATION IROP748500 030572
44a	3113481	SUPPORT-SHELF FRONT STEP SIDE 5130016	5130016	1	44a	3113481	SUPPORT-SHELF FRONT STEP SIDE 5130016
44b	3154693	SUPPORT-SHELF FRONT STEP SIDE 1940 BLK 5130416	5130416	1	44b	3154693	SUPPORT-SHELF FRONT STEP SIDE 1940 BLK 5130416
45a	3113482	SHELF-WIRE 450MM 5130003	5130003	1	45a	3113482	SHELF-WIRE 450MM 5130003
45b	3154689	SHELF-WIRE 450MM BLK 5130313	5130313	1	45b	3154689	SHELF-WIRE 450MM BLK 5130313
46a	3123224	SUPPORT-STEP SIDE SHELF 5130323	5130323	1	46a	3123224	SUPPORT-STEP SIDE SHELF 5130323
46b	3154701	SUPPORT-STEP SIDE SHELF 1940 BLK 5130490	5130490	1	46b	3154701	SUPPORT-STEP SIDE SHELF 1940 BLK 5130490
47a	3113484	DMIDER-BIG W SUPPORT'S C5130007	C5130007	3	47a	3113484	DMIDER-BIG W SUPPORT'S C5130007
47b	3154704	DMIDER-BIG W SUPPORT'S 1940 BLK C5130414	C5130414	3	47b	3154704	DMIDER-BIG W SUPPORT'S 1940 BLK C5130414
48a	3113485	SHELF-WIRE 410MM 5130002	5130002	3	48a	3113485	SHELF-WIRE 410MM 5130002
48b	3154692	SHELF-WIRE 410MM 1940 BLK 5130413	5130413	3	48b	3154692	SHELF-WIRE 410MM 1940 BLK 5130413
49a	3113486	DIVIDER-PLASTIC SUPPORT 5110854	5110854	6	49a	3113486	DIVIDER-PLASTIC SUPPORT 5110854

PARTS LIST				PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN	QTY	ITEM	PART NUMBER	CROSS REF PN
1a	3123280	GLASS-LID SLIDING GRAY 1940 INFERIOR W HANDLE C093007	C093007	1	1a	3123280	GLASS-LID SLIDING GRAY 1940 INFERIOR W HANDLE C093007
1b	3151625	GLASS-LID SLIDING BLACK 1940 INFERIOR W HANDLE C093111	C093111	1	1b	3151625	GLASS-LID SLIDING BLACK 1940 INFERIOR W HANDLE C093111
2a	3123286	GLASS-LID SLIDING GRAY 1940 SUPERIOR W HANDLE C093008	C093008	1	2a	3123286	GLASS-LID SLIDING GRAY 1940 SUPERIOR W HANDLE C093008
2b	3151626	GLASS-LID SLIDING BLACK 1940 SUPERIOR W HANDLE C093112	C093112	1	2b	3151626	GLASS-LID SLIDING BLACK 1940 SUPERIOR W HANDLE C093112
3a	3113374	HANDLE-200MM SLIDING LID RAL7042 W SCREWS C5110549	C5110549	2	3a	3113374	HANDLE-200MM SLIDING LID RAL7042 W SCREWS C5110549
3b	3151629	HANDLE-200MM SLIDING LID BLACK W SCREWS C5110887	C5110887	2	3b	3151629	HANDLE-200MM SLIDING LID BLACK W SCREWS C5110887
4a	3113375	SHELF-BACK SUPPORT 1940 5130025	5130025	1	4a	3113375	SHELF-BACK SUPPORT 1940 5130025
4b	3154696	SHELF-BACK SUPPORT 1940 BLK 5130419	5130419	1	4b	3154696	SHELF-BACK SUPPORT 1940 BLK 5130419
5a	3113376	SHELF-BACK STEP SIDE SUPPORT 1940 5130022	5130022	1	5a	3113376	SHELF-BACK STEP SIDE SUPPORT 1940 5130022
5b	3154695	SHELF-BACK STEP SIDE SUPPORT 1940 BLK 5130418	5130418	1	5b	3154695	SHELF-BACK STEP SIDE SUPPORT 1940 BLK 5130418
6	3123231	PLATE-KICK ROUND COR ZINC PLATED 5190073	5190073	2	6	3123231	PLATE-KICK ROUND COR ZINC PLATED 5190073
7	3113378	LED BAR-1700MM 5000K ECO A50C2 031162	031162	1	7	3113378	LED BAR-1700MM 5000K ECO A50C2 031162
8	3113379	TRANSFORMER-LED BAR 60W 2X800MM A50C2 031168	031168	1	8	3113379	TRANSFORMER-LED BAR 60W 2X800MM A50C2 031168
9a	3113516	SUPPORT-PVC LED GRAY 1790MM 011229	011229	1	9a	3113516	SUPPORT-PVC LED GRAY 1790MM 011229
9b	3151602	SUPPORT-PVC LED BLACK 1790MM 011551	011551	1	9b	3151602	SUPPORT-PVC LED BLACK 1790MM 011551
10	3113515	LED BAR-DIFFUSED 1700MM 5000K ECO A50C2 031163	031163	1	10	3113515	LED BAR-DIFFUSED 1700MM 5000K ECO A50C2 031163
11	3113383	PRICE TAG-HOLDER 1820MM 1940 5110317	5110317	1	11	3113383	PRICE TAG-HOLDER 1820MM 1940 5110317
12	3123328	LABEL-CHARGE LEVEL 070006	070006	4	12	3123328	LABEL-CHARGE LEVEL 070006
13	3123314	SUPPORT-BUMPER 2045MM 011045	011045	2	13	3123314	SUPPORT-BUMPER 2045MM 011045
14a	3114524	CORNER-DEFROST W HOLE 5110020	5110020	1	14a	3114524	CORNER-DEFROST W HOLE 5110020
14b	3154683	CORNER-DEFROST W HOLE BLK 5110864	5110864	1	14b	3154683	CORNER-DEFROST W HOLE BLK 5110864
15	3113445	LEVELER-M12 X 50MM 5110017	5110017	4	15	3113445	LEVELER-M12 X 50MM 5110017
16	3123326	LID-SEAL PROFILE 9MM 011163	011163	1	16	3123326	LID-SEAL PROFILE 9MM 011163
17	3123318	DIFFUSER-LIGHT 1785MM 5110755	5110755	1	17	3123318	DIFFUSER-LIGHT 1785MM 5110755
18a	3123247	BUMPER KIT RAL7016 1 PER CASE C011509	C011509	1	18a	3123247	BUMPER KIT RAL7016 1 PER CASE C011509
18b	3128219	BUMPER KIT BLACK 1 PER CASE C011054	C011054	1	18b	3128219	BUMPER KIT BLACK 1 PER CASE C011054
19	3113449	CONTROLLER-CAREL IRP33 VCC 030950	030950	1	19	3113449	CONTROLLER-CAREL IRP33 VCC 030950
20a	3113450	SUPPORT-FRONT SHELF 5130019	5130019	1	20a	3113450	SUPPORT-FRONT SHELF 5130019
20b	3154694	SUPPORT-FRONT SHELF 1940 BLK 5130417	5130417	1	20b	3154694	SUPPORT-FRONT SHELF 1940 BLK 5130417
21a	3123327	PANEL-CONTROL WO SWITCH R7042 5120116	5120116	1	21a	3123327	PANEL-CONTROL WO SWITCH R7042 5120116
21b	3151610	PANEL-CONTROL WO SWITCH BLACK 5120301	5120301	1	21b	3151610	PANEL-CONTROL WO SWITCH BLACK 5120301
22	3123324	LID-ACRILIC FOR CONTROL PANEL 135 X 57 MM 011040	011040	1	22	3123324	LID-ACRILIC FOR CONTROL PANEL 135 X 57 MM 011040
23	3113454	CABLE-POWER 3014AWG TYPE-B NEMA 5-15P 030221	030221	1	23	3113454	CABLE-POWER 3014AWG TYPE-B NEMA 5-15P 030221
24a	3123246	STOP-LID RH GRAY 5110936	5110936	2	24a	3123246	STOP-LID RH GRAY 5110936
24b	3151609	STOP-LID RH BLACK 5110456	5110456	2	24b	3151609	STOP-LID RH BLACK 5110456

CASE EXPLODED PART VIEWS

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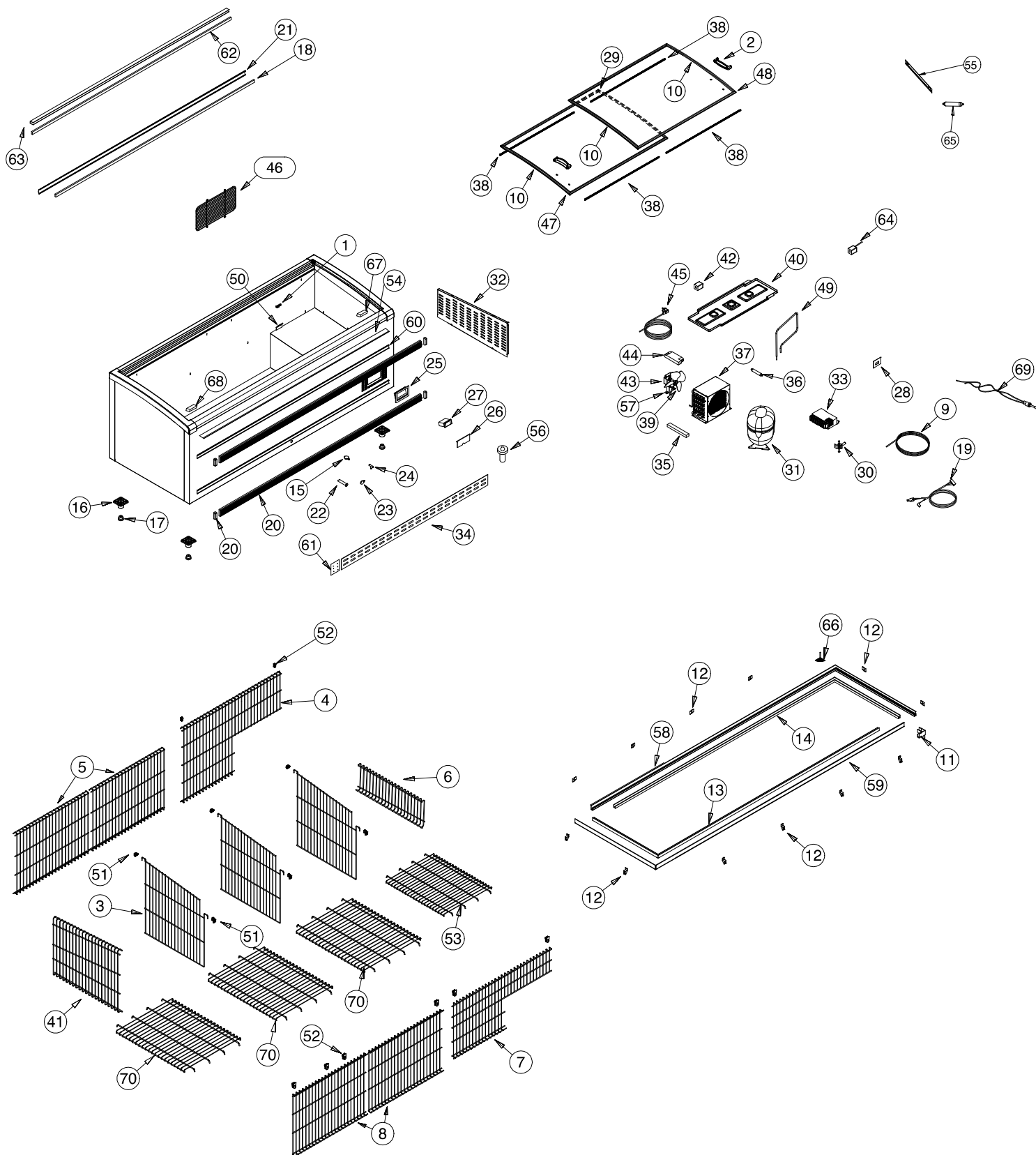
PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN QTY
1a	3113477	SUPPORT-PROBE PLASTIC 5111259	5111259 1
1b	3154678	SUPPORT-PROBE PLASTIC BLK 5110343	5110343 1
2a	3113374	HANDLE-200MM SLIDING LID RAL7042 W SCREWS C5110549	C5110549 2
2b	3151629	HANDLE-200MM SLIDING LID BLACK W SCREWS C5110887	C5110887 2
3a	3113519	DIVIDER-BIG W SUPPORT C5130071	C5130071 3
3b	3154703	DIVIDER-BIG W SUPPORT BLK C5130307	C5130307 3
4a	3113520	SUPPORT-SHELF BACK STEP SIDE 5130014	5130014 1
4b	3154686	SUPPORT-SHELF BACK STEP SIDE BLK 5130310	5130310 1
5a	3113521	SUPPORT-BACK SHELF 5130026	5130026 1
5b	3154684	SUPPORT-BACK SHELF 2200 BLK 5130308	5130308 1
6a	3123226	SUPPORT-STEP SIDE SHELF 5130325	5130325 1
6b	3154699	SUPPORT-STEP SIDE SHELF BLK 5130474	5130474 1
7a	3113524	SUPPORT-SHELF FRONT STEP SIDE 5130013	5130013 1
7b	3154687	SUPPORT-SHELF FRONT STEP SIDE BLK 5130311	5130311 1
8a	3113525	SUPPORT-FRONT SHELF 5130020	5130020 1
8b	3154685	SUPPORT-FRONT SHELF 2200 BLK 5130309	5130309 1
9	3113476	PROBE-NTC015HP00 1.5M 03.0409	03.0409 2
10	3114518	KICK PLATE-FRONT 2200 5190034	5190034 1
11a	3114524	CORNER-DEFROST W HOLE 5110020	5110020 1
11b	3154683	CORNER-DEFROST W HOLE BLK 5110864	5110864 1
12a	3113500	SUPPORT-DRAIN CHANNEL-EVAPORATOR 5110971	5110971 22
12b	3154681	SUPPORT-DRAIN CHANNEL-EVAPORATOR BLK 5110451	5110451 22
13	3123243	CHANNEL-ALUMINUM INFERIOR 2025X707MM C5150826	C5150826 1
14	3123229	CHANNEL-ALUMINUM SUPERIOR 2045X687MM C5150827	C5150827 1
15a	3113488	PLUG-INTERIOR DRAIN 5110105	5110105 1
15b	3154677	PLUG-INTERIOR DRAIN BLK 5110204	5110204 1
16	3113473	LEG-85MM WITH LEVELER C5110220	C5110220 4
17	3113445	LEVELER-M2 X 50MM 5110017	5110017 4
18	3113527	LED BAR-1950MM 5000K ECO AS0C2 031164	031164 1
19	3128218	CABLE-FMNT INVERTER 031183	031183 1
20a	3123247	BUMPER KIT RAL7016 I PER CASE C011509	C011509 1
20b	3128219	BUMPER KIT BLACK I PER CASE C011054	C011054 1
21	3123319	DIFFUSER-LIGHT 2052MM 5110569	5110569 1
22a	3113489	PPE-WHITE DRAIN 5110347	5110347 1
22b	3151606	PPE-BLACK DRAIN 5110348	5110348 1
22c	3151607	PPE-GRAY DRAIN 5110349	5110349 1

PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN QTY
23a	3113457	PLUG-WHITE EXTERIOR DRAIN 5110825	5110825 1
23b	3151604	PLUG-BLACK EXTERIOR DRAIN 5110166	5110166 1
23c	3151605	PLUG-GRAY EXTERIOR DRAIN 5110228	5110228 1
24	3113490	DRAIN-PURGE 5110107	5110107 1
25a	3123327	PANEL-CONTROL WO SWITCH R7042 5120116	5120116 1
25b	3151610	PANEL-CONTROL WO SWITCH BLACK 5120301	5120301 1
26	3123324	LID-ACRILIC FOR CONTROL PANEL 135 X 57 MM 011040	011040 1
27	3113449	CONTROLLER-CAREL IR33 VCC 03.0950	03.0950 1
28	3113530	SUPPORT-JOINERS 5150015	5150015 4
29	3123302	FILTER-DRAIN CHANNEL 5110283	5110283 1
30	3113497	VALVE-025 DEFROST SANHUA 02.0323	02.0323 1
31	3113465	COMPRESSOR-EMBRACO FMFT413U 115-230V-50-60HZ R290 02.0599	02.0599 1
32a	3123322	PLATE-EXT SIDE WHIT GRID 5141592	5141592 1
32b	3151614	PLATE-EXT SIDE BLK GRID 5141593	5141593 1
32c	3151616	PLATE-EXT SIDE LIGHT GRAY GRID 5142160	5142160 1
32d	3151617	PLATE-EXT SIDE DARK GRAY GRID 5142161	5142161 1
33	3113463	INVERTER-FMNT COMPRESSOR FREQUENCY 02.0604	02.0604 1
34	3114521	KICK PLATE-JOIN W SCREWS C5190036	C5190036 1
35	3113379	TRANSFORMER-LED BAR 60W 2X600MM AS0C2 031168	031168 1
36	3113464	FILTER-7.5G IN-6-OUT-3 02.0564	02.0564 1
37	3113468	CONDENSER-WIRE ON TUBE 02.0577	02.0577 1
38	3114522	SCREW-KICK PLATE 05.0316	05.0316 4
39	3113469	FAN BLADE-ASPIRANT TUBE HELIX DIA200MM 28DEG 02.0079	02.0079 1
40	3123329	TRAY-WATER 5120295	5120295 1
41	3123225	SUPPORT-SIDE SHELF 5130324	5130324 1
42	3113488	VALVE-12W 115V SOLENOID DEFROST SANHUA 02.0607	02.0607 1
43	3113470	MOTOR-FAN HIGH EFFICIENCY INQ 02.0602	02.0602 1
44	3113462	BOX-CONNECTOR 03.0834	03.0834 1
45	3113454	CABLE-POWER 3G14AWG TYPE-B NEMA 5-15P 03.0221	03.0221 1
46a	3113491	GRID-WIRE RECTANGULAR WHITE EXTERIOR 430X220MM 5130046	5130046 1
46b	3151611	GRID-WIRE RECTANGULAR BLACK EXTERIOR 430X220MM 5130208	5130208 1
46c	3151612	GRID-WIRE RECTANGULAR GRAY EXTERIOR 430X220MM 5130253	5130253 1
47a	3123292	GLASS-LID SLIDING GRAY 2200 SUPERIOR W HANDLE C09.3010	C09.3010 1
47b	3151628	GLASS-LID SLIDING BLACK 2200 SUPERIOR W HANDLE C09.3114	C09.3114 1
48a	3123288	GLASS-LID SLIDING GRAY 2200 INFERIOR W HANDLE C09.3009	C09.3009 1
48b	3151627	GLASS-LID SLIDING BLACK 2200 INFERIOR W HANDLE C09.3113	C09.3113 1

PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN QTY
49	3113538	HEATER-DEFROST RESISTANCE 031098	031098 1
50	3113494	PLATE-SUPPORT DEFROST PROBE 5150008	5150008 1
51a	3113486	DIVIDER-PLASTIC SUPPORT 5110854	5110854 6
51b	3154680	DIVIDER-PLASTIC SUPPORT BLK 5110450	5110450 6
52a	3113487	SUPPORT-SHELF PLASTIC WALL 5110851	5110851 8
52b	3154679	SUPPORT-SHELF PLASTIC WALL BLK 5110444	5110444 8
53a	3113539	SHELF-WIRE 500MM 5130004	5130004 3
53b	3154688	SHELF-WIRE 500MM BLK 5130312	5130312 3
54	3113540	PRICE TAG-HOLDER 2045MM 5110701	5110701 1
55a	3113482	SHELF-WIRE 450MM 5130003	5130003 1
55b	3154689	SHELF-WIRE 450MM BLK 5130313	5130313 1
56a	3113548	SUPPORT-PVC LED GRAY 2056MM 011230	011230 1
56b	3151600	SUPPORT-PVC LED BLACK 2056MM 011396	011396 1
57	3113506	SUPPORT-FAN MOTOR 72MM 09.0988	09.0988 1
58a	3123305	CHANNEL-DRAIN SUPERIOR 2053X688MM 011597	011597 1
58b	3154671	CHANNEL-DRAIN SUPERIOR BLK 2053X688MM 011664	011664 1
59a	3123309	CHANNEL-DRAIN INFERIOR 2020X718MM 011601	011601 1
59b	3154670	CHANNEL-DRAIN INFERIOR BLK 2020X718MM 011663	011663 1
60	3123311	SUPPORT-BUMPER 2140MM 011457	011457 2
61	3113547	LED BAR-DIFFUSED 1950MM 5000K ECO AS0C2 031165	031165 1
62	3113543	LID-SEAL PROFILE 10 X 760MM 011227	011227 3
63	3123326	LID-SEAL PROFILE 9MM 011163	011163 1
64	3113544	LID-SLIDING PROFILE 1040MM C010831	C010831 4
65	3113517	MODULE-COMUNICATION ROP748500 03.0572	03.0572 1
66	3129878	SWITCH-HIGH PRESSURE 02.0638	02.0638 1
67	3123328	LABEL-CHARGE LEVEL 07.0006	07.0006 4
68	3123228	FILTER-DEFROSTING 02.0643	02.0643 1
69a	3123246	STOP-LID RH GRAY 5110936	5110936 1
69b	3151609	STOP-LID RH-BLACK 5110456	5110456 1
70a	3123245	STOP-LID LH GRAY 5110937	5110937 1
70b	3151608	STOP-LID LH-BLACK 5110457	5110457 1

CASE EXPLODED PART VIEWS

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CASE EXPLODED PARTS
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PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN QTY
1a	3113477	SUPPORT-PROBE PLASTIC 5111259	5111259 1
1b	3154678	SUPPORT-PROBE PLASTIC BLK 5110343	5110343 1
2a	3113374	HANDLE-200MM SLIDING LID RAL 7042 W SCREWS C5110549	C5110549 2
2b	3151629	HANDLE-200MM SLIDING LID BLACK W SCREWS C5110887	C5110887 2
3a	3113519	DIVIDER-BIG W SUPPORT C5130071	C5130071 3
3b	3154703	DIVIDER-BIG W SUPPORT BLK C5130307	C5130307 3
4a	3113520	SUPPORT-SHELF BACK STEP SIDE 5130014	5130014 1
4b	3154686	SUPPORT-SHELF BACK STEP SIDE BLK 5130310	5130310 1
5a	3113549	SUPPORT-BACK SHELF 600MM 5130231	5130231 2
5b	3154691	SUPPORT-BACK SHELF 600MM BLK 5130316	5130316 2
6a	3123226	SUPPORT-STEP SIDE SHELF 5130325	5130325 1
6b	3154699	SUPPORT-STEP SIDE SHELF BLK 5130474	5130474 1
7a	3113524	SUPPORT-SHELF FRONT STEP SIDE 5130013	5130013 1
7b	3154687	SUPPORT-SHELF FRONT STEP SIDE BLK 5130311	5130311 1
8a	3113550	SUPPORT-FRONT SHELF 600MM 5130230	5130230 2
8b	3154690	SUPPORT-FRONT SHELF 600MM BLK 5130315	5130315 2
9	3113476	PROBE-NTC01SHPO0 15M 030499	030499 2
10	3113543	LID-SEAL PROFILE 10 X 760MM 011227	011227 3
11a	3114524	CORNER-DEFROST W HOLE 5110020	5110020 1
11b	3154683	CORNER-DEFROST W HOLE BLK 5110864	5110864 1
12a	3113500	SUPPORT-DRAIN CHANNEL-EVAPORATOR 5110971	5110971 24
12b	3154681	SUPPORT-DRAIN CHANNEL-EVAPORATOR BLK 5110451	5110451 24
13	3123244	CHANNEL-ALUMINUM INTERIOR 2325X707MM C5150825	C5150825 1
14	3123230	CHANNEL-ALUMINUM SUPERIOR 2345X687MM C5150828	C5150828 1
15a	3113488	PLUG-INTERIOR DRAIN 5110105	5110105 1
15b	3154677	PLUG-INTERIOR DRAIN BLK 5110204	5110204 1
16	3113473	LEG-85MM WITH LEVELER C5110220	C5110220 4
17	3113445	LEVELER-M12 X 50MM 5110017	5110017 4
18	3113551	LED BAR-2250MM 5000K ECO ASQC2 031166	031166 1
19	3128218	CABLE-FMT INVERTER 031183	031183 1
20a	3123247	BUMPER KIT RAL 7016 1 PER CASE C011509	C011509 1
20b	3128219	BUMPER KIT BLACK 1 PER CASE C011054	C011054 1
21	3123320	DIFFUSER-LIGHT 2352MM 5110570	5110570 1
22a	3113489	PIPE-WHITE DRAIN 5110347	5110347 1
22b	3151606	PIPE-BLACK DRAIN 5110348	5110348 1
22c	3151607	PIPE-GRAY DRAIN 5110349	5110349 1

PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN QTY
23a	3113457	PLUG-WHITE EXTERIOR DRAIN 5110825	5110825 1
23b	3151604	PLUG-BLACK EXTERIOR DRAIN 5110166	5110166 1
23c	3151605	PLUG-GRAY EXTERIOR DRAIN 5110228	5110228 1
24	3113490	DRAIN-PURGE 5110107	5110107 1
25a	3123327	PANEL-CONTROL WO SWITCH R7042 5120116	5120116 1
25b	3151610	PANEL-CONTROL WO SWITCH BLACK 5120301	5120301 1
26	3123324	LID-ACRLIC FOR CONTROL PANEL 135 X 57 MM 011040	011040 1
27	3113449	CONTROLLER-CAREL IR33 VCC 030950	030950 1
28	3113530	SUPPORT-JOINERS 5150015	5150015 4
29	3123326	LID-SEAL PROFILE 9MM 011163	011163 1
30	3113497	VALVE-0.25 DEFROST SANHUA 020323	020323 1
31	3113465	COMPRESSOR-EMBRACO FMFT 413U 115-230V-50-60HZ R290 020599	020599 1
32a	3123322	PLATE-EXT SIDE WHT GRID 5141592	5141592 1
32b	3151614	PLATE-EXT SIDE BLK GRID 5141593	5141593 1
32c	3151616	PLATE-EXT SIDE LIGHT GRAY GRID 5142160	5142160 1
32d	3151617	PLATE-EXT SIDE DARK GRAY GRID 5142161	5142161 1
33	3113463	INVERTER-FMT COMPRESSOR FREQUENCY 020604	020604 1
34	3114519	KICK PLATE-FRONT 2500 5190035	5190035 1
35	3113379	TRANSFORMER-LED BAR 60W 2X800MM ASQC2 031168	031168 1
36	3113464	FILTER-7.5 IN-6-OUT-3 020564	020564 1
37	3113468	CONDENSER-WIRE ON TUBE 020577	020577 1
38	3113554	LID-SLIDING PROFILE 1195MM C010833	C010833 4
39	3113469	FAN BLADE-ASPIRANT TUBE HELIX DIA200MM 28DEG 020079	020079 1
40	3123329	TRAY-WATER 5120295	5120295 1
41a	3123225	SUPPORT-SIDE SHELF 5130324	5130324 1
41b	3154700	SUPPORT-SIDE SHELF BLK 5130475	5130475 1
42	3113498	VALVE-12W 115V SOLENOID DEFROST SANHUA 020607	020607 1
43	3113470	MOTOR-FAN HIGH EFFICIENCY NID 020602	020602 1
44	3113462	BOX-CONNECTOR 030834	030834 1
45	3113454	CABLE-POWER 3G 14AWG TYPE-B NEMA 5-15P 030221	030221 1
46a	3113491	GRID-WIRE RECTANGULAR WHITE EXTERIOR 430X220MM 5130046	5130046 1
46b	3151611	GRID-WIRE RECTANGULAR BLACK EXTERIOR 430X220MM 5130208	5130208 1
46c	3151612	GRID-WIRE RECTANGULAR GRAY EXTERIOR 430X220MM 5130253	5130253 1
47a	3123296	GLASS-LD SLIDING GRAY 2500 INFERIOR W HANDLE C093011	C093011 1
47b	3151621	GLASS-LD SLIDING BLACK 2500 INFERIOR W HANDLE C093013	C093013 1
48a	3123301	GLASS-LD SLIDING GRAY 2500 SUPERIOR W HANDLE C093012	C093012 1

PARTS LIST			
ITEM	PART NUMBER	TITLE	CROSS REF PN QTY
48b	3151622	GLASS-LD SLIDING BLACK 2500 SUPERIOR W HANDLE C093014	C093014 1
49	3113559	HEATER-DEFROST RESISTANCE 031099	031099 1
50	3113494	PLATE-SUPPORT DEFROST PROBE 5150008	5150008 1
51a	3113486	DIVIDER-PLASTIC SUPPORT 5110854	5110854 6
51b	3154680	DIVIDER-PLASTIC SUPPORT BLK 5110450	5110450 6
52a	3113487	SUPPORT-SHELF PLASTIC WALL 5110851	5110851 12
52b	3154679	SUPPORT-SHELF PLASTIC WALL BLK 5110444	5110444 12
53a	3113482	SHELF-WIRE 450MM 5130003	5130003 1
53b	3154689	SHELF-WIRE 450MM BLK 5130313	5130313 1
54	3113560	PRICE TAG-HOLDER 2345MM 5111001	5111001 1
55	3123328	LABEL-CHARGE LEVEL 070006	070006 4
56	3114522	SCREW-KICK PLATE 050316	050316 4
57	3113506	SUPPORT-FAN MOTOR 72MM 090988	090988 1
58a	3123306	CHANNEL-DRAIN SUPERIOR 2353X688MM 011598	011598 1
58b	3154676	CHANNEL-DRAIN SUPERIOR BLK 2353X688MM 011697	011697 1
59a	3123310	CHANNEL-DRAIN INFERIOR 2320X718MM 011602	011602 1
59b	3154675	CHANNEL-DRAIN INFERIOR BLK 2320X718MM 011696	011696 1
60	3123313	SUPPORT-BUMPER 2440MM 011459	011459 2
61	3114521	KICK PLATE-JOIN W SCREWS C5190036	C5190036 1
62	3113563	LED BAR-DIFFUSED 2250MM 5000K ECO ASQC2 031167	031167 1
63a	3113564	SUPPORT-PVC LED GRAY 2356MM 011244	011244 1
63b	3151601	SUPPORT-PVC LED BLACK 2356MM 011415	011415 1
64	3113517	MODULE-COMMUNICATION IRPZ48500 030572	030572 1
65	3123228	FILTER-DEFROSTING 020643	020643 1
66a	3123302	FILTER-DRAIN CHANNEL 5110283	5110283 1
66b	3154682	FILTER-DRAIN CHANNEL BLK 5110452	5110452 1
67a	3123246	STOP-LD RH GRAY 5110936	5110936 1
67b	3151609	STOP-LD RH GRAY 5110456	5110456 1
68a	3123245	STOP-LD LH GRAY 5110937	5110937 1
68b	3151608	STOP-LD LH BLACK 5110457	5110457 1
69	3129878	SWITCH-HIGH PRESSURE 020638	020638 1
70a	3151613	SHELF-WIRE 590MM 5130435	5130435 3
70b	3155797	SHELF-WIRE 590MM BLK 5130492	5130492 3

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NOTES:



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**To obtain warranty information
or other support, contact your
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Please include the model and
serial number of the product.**

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