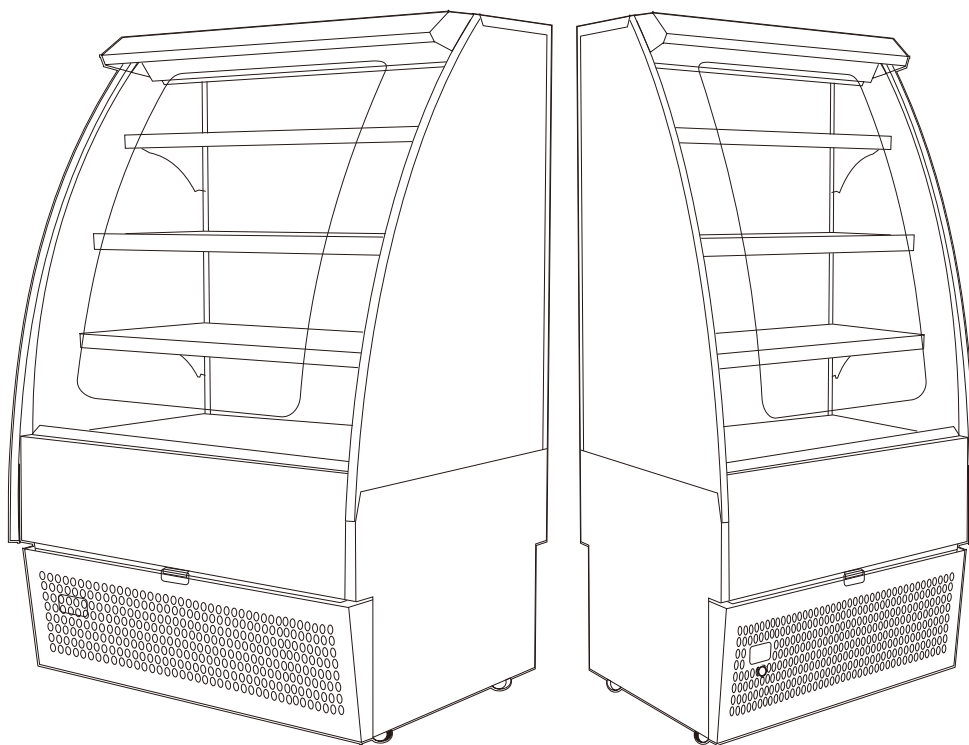




Santiago open front model series

TK-6
TK-9
TK-12

TQ-6
TQ-9
TQ-12

TQ-6-SP
TQ-9-SP
TQ-12-SP

Thank you for choosing this Rhino appliance. It is essential that you read this booklet carefully and keep in a safe place for future reference. The booklet contains mandatory safety information as well as details of essential maintenance routines.



WARNING!

Refrigeration repairs and electrical work may only be carried out by suitably qualified and competent persons.

Product Diagram

Front View Figure 1

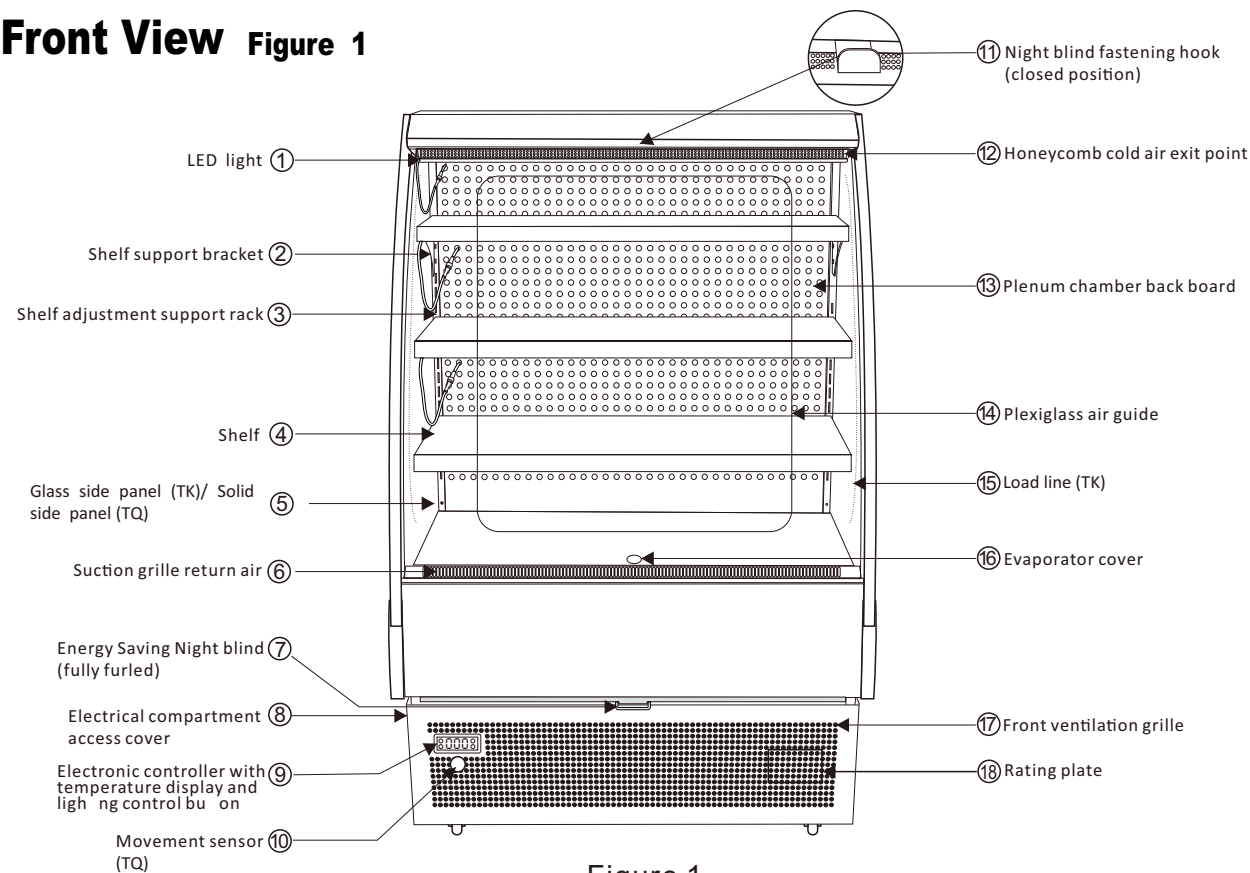


Figure 1

Rear View Figure 2

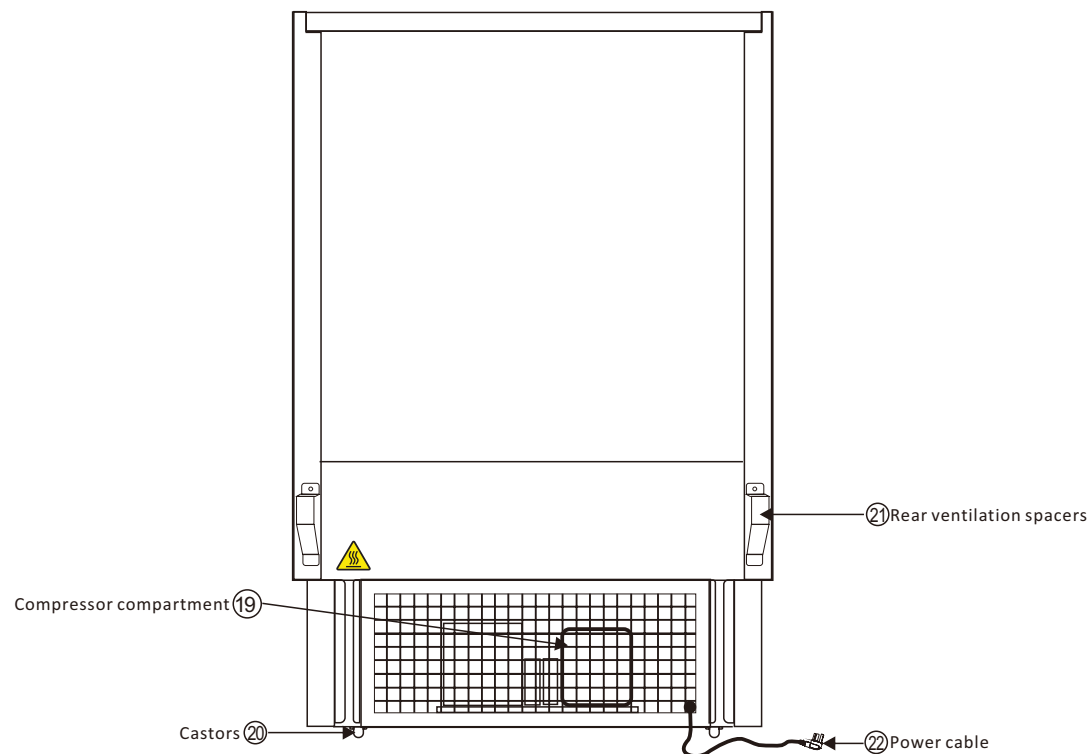


Figure 2

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1. Before you start

Thank you for your selection of this Rhino appliance. It uses the latest energy saving components and highest quality materials to ensure optimum operational efficiency. Please read this User Guide carefully. It explains how to position, install, use and maintain the appliance in the authorised manner. Please store this User Guide in a safe place and ensure that it is available for reference by other users. All those responsible for the appliance must be aware of how to operate it safely. The cabinet must be installed, started up and operated in compliance with local hygiene laws, safety regulations and the manufacturer's instructions set out in this User Guide. If the appliance has sustained damage in transit or, if a defect is apparent upon start-up, please switch it off, disconnect from the mains power supply and report the fault to your supplier.

1.1. Environmental conditions

The appliance has been designed to be operated in ISO Climate Class 3 conditions. These are defined as:

- Maximum ambient temperature 25°C
- Relative Humidity 60%

2. Intended use of the cabinets:

The TK and TQ series are commercial products intended for the storage and display of pre-packaged food, dairy and beverage items. The appliance is not to be used for purposes other than these nor in ambient climatic conditions that exceed Climate Class 3. Note that the TQ series has an Eco mode that allows the temperature to rise above 4C during periods of non-use.

2.1. Safety Warnings

	WARNING! Any electrical work must be carried out by suitably qualified persons.	 Caution: risk of Fire	 FLAMMABLE GAS
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Please observe the following safety precautions and instructions at all times. Rhino accepts no liability if the instructions and warnings in this manual have been disregarded:

- The appliance is for indoor use only.
- Do not use this appliance other than for its intended use as a commercial chiller for pre-packed food, dairy and beverage items.
- Always observe the load lines and do not overfill. The maximum individual shelf loading weight of 20kgs must not be exceeded.
- Always disconnect the mains power supply before removing any cover, performing maintenance work, cleaning or making any repairs.
- Ensure that children do not play with the appliance. Neither cleaning nor user maintenance shall be performed by children.
- Do not cover up or obstruct any of the ventilation grilles at either the front or rear, nor the interior cold air curtain system (see Figures 1 & 2). Please be aware that warm air must be allowed to escape upwards from the rear of the appliance.
- Do not probe any of the openings in the cabinet. Do not access the evaporator or compressor compartments while the cabinet is connected to the mains power.
- Any electrical work on the cabinet shall only be carried out by suitably qualified, competent and skilled persons in possession of current certificates and licenses sufficient for the practice of their trade.
- Do not overload the power supply. Always ensure that the power supply is sufficient for the electrical requirements that are specified on the rating label. The rating label is located behind the front grille (see figure 1). If in doubt, please consult a qualified electrician. Important: never use adaptors or multi-block extension leads to connect the appliance to the mains power.
- If the mains power supply cord is damaged, it must be replaced by the appliance manufacturer, its service agent or a suitably qualified, competent and skilled electrician in order to avoid a hazard.
- Do not store explosive or flammable substances, liquids or packages (such as aerosol cans with a flammable propellant) inside this appliance.
- Do not use any electrical appliances inside the refrigerated compartment of this appliance.
- Do not use any mechanical devices or other means to accelerate the defrosting process. Defrosting is performed automatically by the electronic controller and needs no user intervention.

- Do not damage the refrigeration circuit. If you do so by accident, then open a window or door immediately so as to ventilate the area. The refrigerant is flammable.
- This appliance contains flammable refrigerant within its sealed system. Therefore, it is mandatory that the cabinet is serviced and, at end-of-life recycled by, a professional organisation with appropriate skilled persons who have the necessary qualifications, certifications, licenses and expertise to do so. If in doubt please contact Rhino.
- During all operations please be careful not to jolt, bump, jar or thump the cabinet. Handle it gently and with care. The refrigeration pipework is delicate and may be damaged by rough handling.
- Never move or tilt the appliance whilst it is connected to the power supply.
- The appliance must always be earthed.
- The appliance must only be charged with R290a refrigerant from an authorised supplier in possession of the correct licenses. The use of any other type of refrigerant is dangerous and is not permitted under any circumstances.
- Electrical equipment should not be placed under the unit, nor where the refrigerant could gather in the event of a leak.
- Prior to first use, please clean and sanitise the appliance according to the instructions in section 2.2.

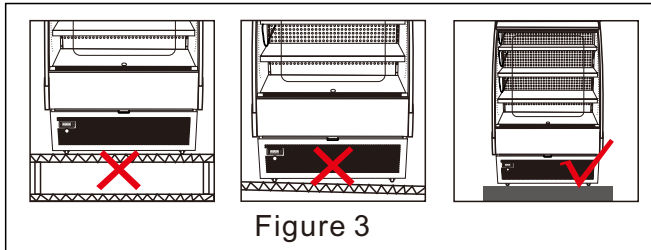
2.2.Unpacking and initial setup

2.2.1 Unpacking

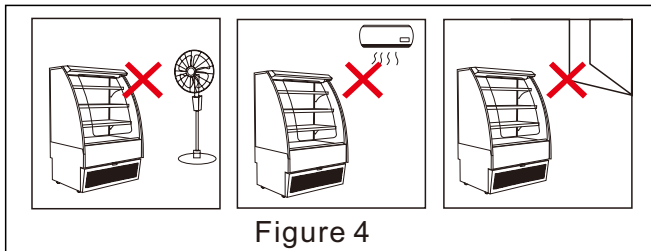
- Prior to opening the packing case, please equip yourself with personal protective equipment sufficient for the task. There are risks including but not limited to, splinter, cut, crushing and bruising. Ensure that any nails, screws or metal fastening brackets are made safe before recycling and disposal.
- Please take care not to bump or jolt the cabinet. It has delicate pipework inside which is easily fractured.
- If the appliance has been delivered other than in an upright position, please allow it to stand for 24 hours before connecting to the power supply.
- Please dispose of the packaging in accordance with all local recycling regulations.
- Please ensure that the plastic bag cannot be taken by children.

2.2.2 Positioning

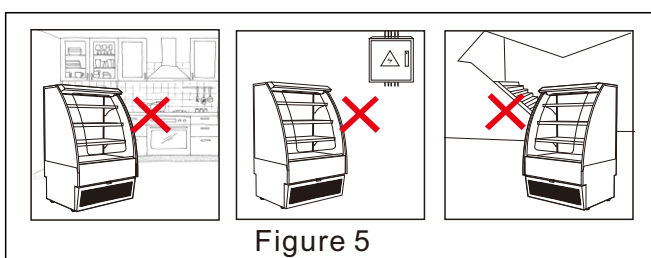
- The appliance must be placed on a level floor that is dry and free from dust. The floor must be sufficiently strong to support the weight of the appliance when fully loaded.



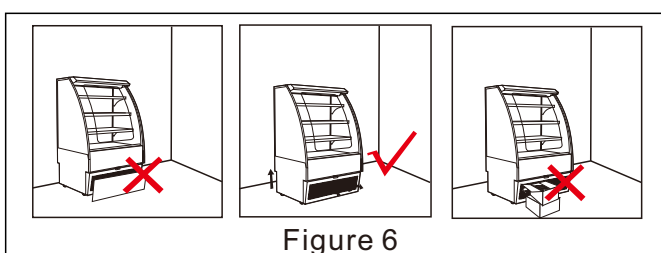
- The appliance must not be positioned in a location where its air curtain may be subject to drafts, such as next to a doorway, under a fan or air conditioning duct.



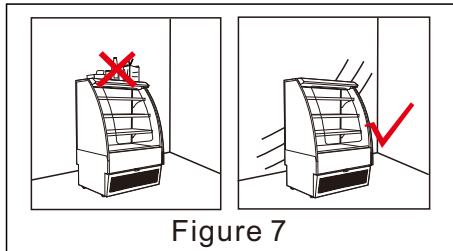
- It should not be located next to a source of heat, nor in direct sunlight.
- The appliance must not be located near to any source of ignition such as cooking apparatus or electrical switchboard. It must not be located in a cellar location or any similar place where refrigerant gas could gather in the event of leakage.



- The front and rear ventilation grilles (see Figures 1 & 2) must not be covered or obstructed under any circumstances. The appliance must not be modified by the addition of décor panels. The hot air generated to the rear of the appliance must be allowed to escape vertically upwards.



- Do not place any items on top of the appliance. Always ensure that the rear spacers allow the ventilation space to be maintained for the hot air to escape vertically.



- Do not obstruct the field of view of the movement sensor shown in Figure 1.
(TQ models only)

2.2.3. Initial cleaning and set up prior to first use:

Using an appropriate cleansing product and subject to the fluid manufacturer's guidelines, please sanitise the interior surfaces of the appliance. The side glass panels (TK series) may be cleaned using a commercially available glass cleaning spray.

3. Operation of the appliance

Having observed all of the previous advice and warnings, please prepare to connect the power cord to the mains supply. The appliance must be plugged in directly to the wall socket. Multi-block extension leads are not suitable. The power supply must be suitably rated for the power needs of the appliance model concerned. Please consult the rating plate on the appliance which is to be found behind the front grille. Switch on the power. The appliance is designed to run automatically but further useful information is shown below:



Figure 8

3.1 Temperature adjustment:

The temperature is pre-set at the factory and no user intervention is required. The current internal air temperature is shown on the display. Please note that in normal use the air temperature will fluctuate up and down whilst the temperature of the stored products will be more stable. To show the current set point, briefly depress either the UP or DOWN arrows on the controller facia. The set point temperature will be displayed and then after a few seconds the display will return to the air temperature. To adjust the set point (not recommended), please briefly depress either the UP or DOWN arrow to display the set point and then adjust to the desired new target temperature. Having made your new set point selection, wait a few seconds and the display will revert to the air temperature having stored the newly selected set point.

3.2 Switching the lights on and off:

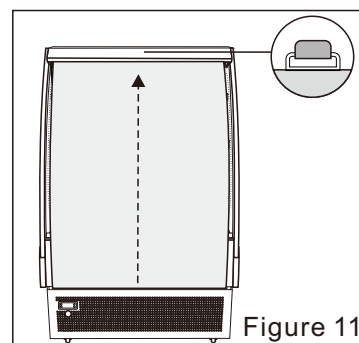
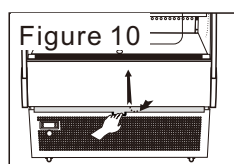
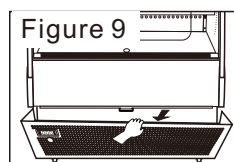
The lighting control button is shown in Figure 8. Press to switch the lights on or off.

3.3 Eco Mode (TQ models only):

The TQ series has an energy saving mode that allows the air temperature to rise during periods of non-use. The movement sensor (see Figure 1) mounted in the front grille detects passing customers and if no movement has been detected for 2 hours, then the lights will be switched off and the temperature set point will be allowed to rise by 2-3 degrees C. The controller will revert to Normal mode as soon as passing foot traffic is detected.

3.4 Night blind:

The appliance is fitted with an energy saving night blind. At the close of trading it is highly recommended to close the blind to save energy and reduce the running time of the refrigeration.



Figures: 9 and 10

To access the night blind, hinge forward the bottom grille and locate the pull handle.

Figure 11

Carefully unfurl the blind and attach to the fastening hook at the top of the appliance.

3.5 Adjustment of the shelves:

The shelves are fixed into position at the factory. If the user wishes to alter the shelf position, please see Figure 12 below.

Disconnect from the mains power supply.

Unscrew the LED connector (Figure:12-1).

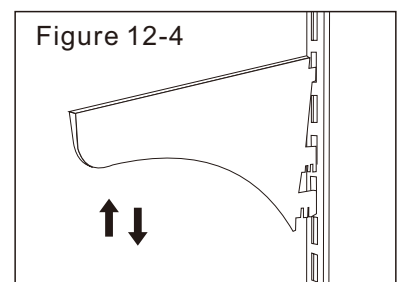
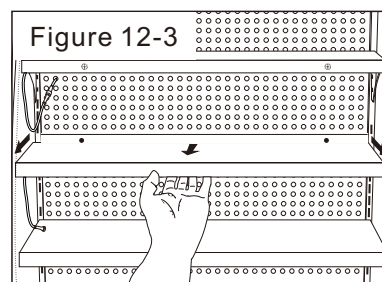
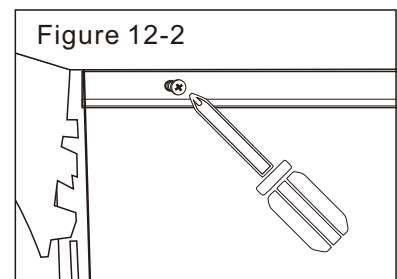
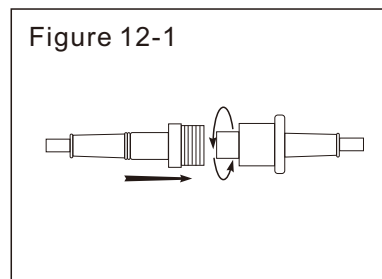
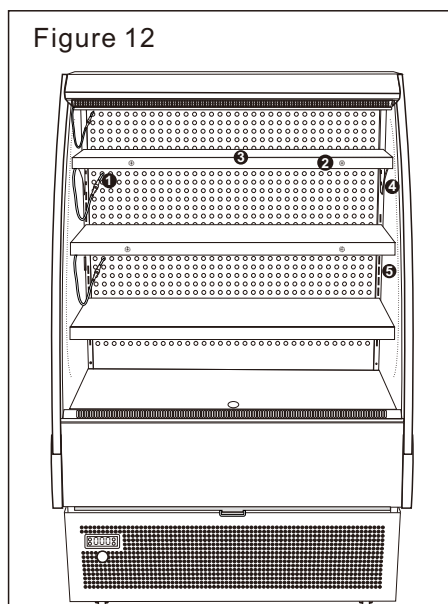
Remove the transit screws at the back of the shelf (Figure:12-2) and carefully set to one side. Do not drop into the refrigerated compartment.

Lift the shelf away from the support brackets (Figure:12-3).

Move the support brackets to the newly desired location (Figure:12-4).

Replace the shelf and discard/ recycle the transit screws.

Reconnect to the mains power supply.



4. Defrosting

Defrosting is performed automatically without user intervention. During the programmed defrost cycle, the displayed temperature value is locked at the last reading the prior to entering the defrosting period. The actual interior air temperature will rise temporarily until the defrost cycle has completed. This is a normal and necessary function of the cooling system. When the defrost cycle has concluded, the displayed value will revert to the actual air temperature and the cooling system will resume working to bring the temperature down to the Set Point temperature.

5. Maintenance

It is essential to maintain this Rhino appliance.

5.1 Cleaning and sanitisation

Please regularly clean and sanitise the interior and exterior surfaces of the appliance using a disposable paper towel. Please clean the glass inside and out using a commercially available glass cleaner. Always follow and respect the instructions given by the manufacturer of the fluids used. Do not use cream cleansers because they may damage the paint finish. Do not use steam, power washers, jetting water, or any form of water inundation. If necessary vacuum out the interior to remove any debris such as paper packaging or other foreign objects. Do not probe any openings or covers.

NOTE: The cabinet must not be cleaned while the fans are running. To disable the fans, disconnect the cabinet from the electricity supply.

WARNING



Wear protective gloves and work cautiously to avoid cut injuries.

5.2 Cleaning the condenser

This appliance uses a low maintenance condenser (see figures 13 and 14) that is less prone to blockage. However it must still be cleaned periodically, the frequency of which will be determined by the amount of dust in the environment. Regular examination is recommended. A partially or fully blocked condenser causes the cooling efficiency to be affected, increases electricity consumption and in the worst case can lead to a complete malfunction of the cooling system. For the warranty to be valid, the condenser/s must be clean. The user may call Rhino for support (a cost will be incurred) or the following procedure can be adopted:

Step 1: Please take care to observe any workplace safety restrictions that apply.

A full workplace safety risk assessment is required before beginning this operation.

Step 2: Disconnect the appliance from the mains power supply.

Step 3: Hinge forward the bottom grille cover to expose the condenser.

Caution! Many of the exposed surfaces may be hot and a risk of burns to the skin is present. Allow the appliance to cool off prior to commencing. Also, the exposed surfaces may have sharp edges and a risk of a cut to the skin is present. Take appropriate precautions.

Step 4: The condenser is highlighted in Figure 13 and it should be clean, free from dust, debris and any obstructions.

Step 5: Take a soft brush and sweep the condenser clean. The condenser is a very delicate component and it is easily damaged. Only use a soft brush (Figure 13). Do not use a stiff brush or a wire brush. If the condenser is contaminated with grease, a fire hazard is present and a professional must be called to do the cleaning. Do not use water or steam.

Step 6: Using the nozzle of a vacuum (Figure 14), please remove all the dust and debris from the compressor compartment.

Step 7: Refit the front grille.

Step 8: Re-connect to the mains power.



Figure 13

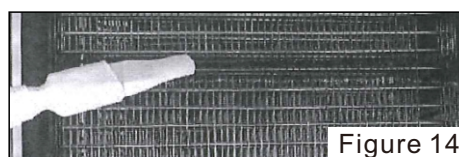


Figure 14

5.3 Cleaning the water drainage area

To identify the water drainage area please refer to Figure 1 and the region indicated by the “Suction grille return air” and also the “Evaporator Cover”. The water drain itself can be found by looking down and through the suction grille. Often this drainage area can become contaminated with airborne particles or possibly even some small insects. It is important to keep this area clean for basic hygiene purposes. It is also crucial to maintain the free drainage of the condensate water to the removal system that is contained within the compressor compartment. Failure to do so will cause a malfunction.

To clean the water drain, please adopt the following procedure:

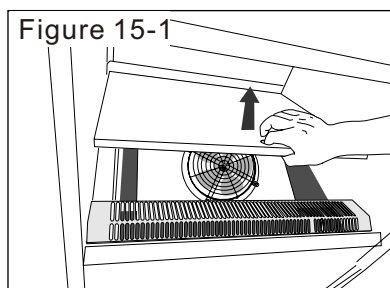


Figure 15-1

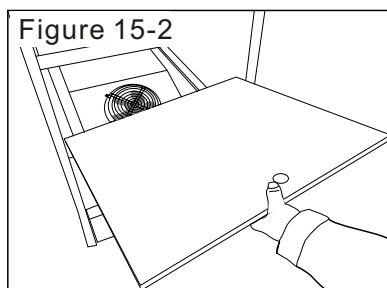


Figure 15-2

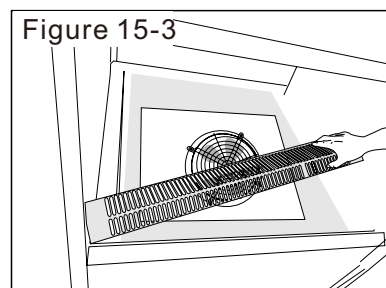


Figure 15-3

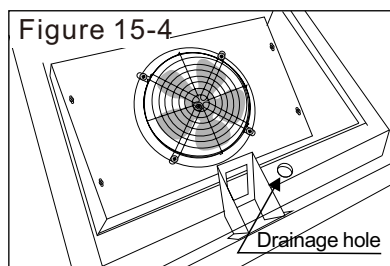


Figure 15-4

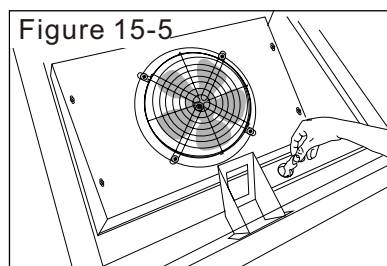


Figure 15-5

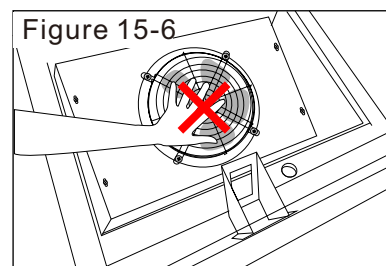


Figure 15-6

Figure 15

Step 1: Disconnect the appliance from the mains power supply.

Step 2: Having emptied the bottom layer of displayed products, carefully remove the Evaporator Cover. (Figure 15-1 and Figure 15-2)

Step 3: Lift off the Suction Grille and place to one side. (Figure 15-3) Caution! Do not touch the fan blades nor allow anything to drop into this area. (Figure 15-6)

Step 4: Using a disposable paper towel, reach down into the drainage area and remove any dirt, debris, insects or other foreign objects whilst taking care not simply to push them into the drainage hole. The aim is to remove them, not to push them into the drain which could easily become blocked by doing so. Carefully sanitise the exposed area under the evaporator cover and also the drainage area. (Figure 15-4 and Figure 15-5)

Step 5: Refit the Suction Grille and Evaporator Cover.

Step 6: Reconnect the mains power supply.

6. Service and spare parts

In the event of a malfunction, please disconnect from the mains power supply and contact the dealer from whom you purchased the appliance. Please have the model number and serial number to hand. The appliance must only be repaired by an appropriately qualified and skilled professional in possession of all the required licences required for work on a refrigerating appliance with R290 hydrocarbon refrigerant.

If spare parts are required, please always insist upon genuine Rhino parts.

7. Disposal of equipment at end-of-life

At the end of its service life, the appliance must be recycled by a professional organisation in accordance with all local laws and regulations. The appliance contains flammable gas within its sealed system and also within the insulation foam. If in doubt, please contact Rhino or your Local Authority.

WARNING



R290 and Cyclopentane are highly flammable

8. Contact

For Service And Warranty please contact Bar Fridges Australia via

Phone: 1300 170640.

Email: vicservice@bar-fridges-australia.com.au

Or lodge a claim online at <https://www.bar-fridges-australia.com.au/making-a-warranty-claim.html>