



Original Instructions

Models: GSP1, GSP2, GSP3

Outdoor Refrigerator

Thank you for choosing this Rhino appliance. It is essential that you read these instructions carefully and keep the booklet in a safe place for your future reference. The booklet contains mandatory safety information as well as essential maintenance routines. Failure to observe the instructions is unsafe and may also invalidate the warranty.



WARNING!

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

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The information within this booklet was correct at the time of printing.
Specifications and information may alter without notice.

1. Product Introduction Diagram:

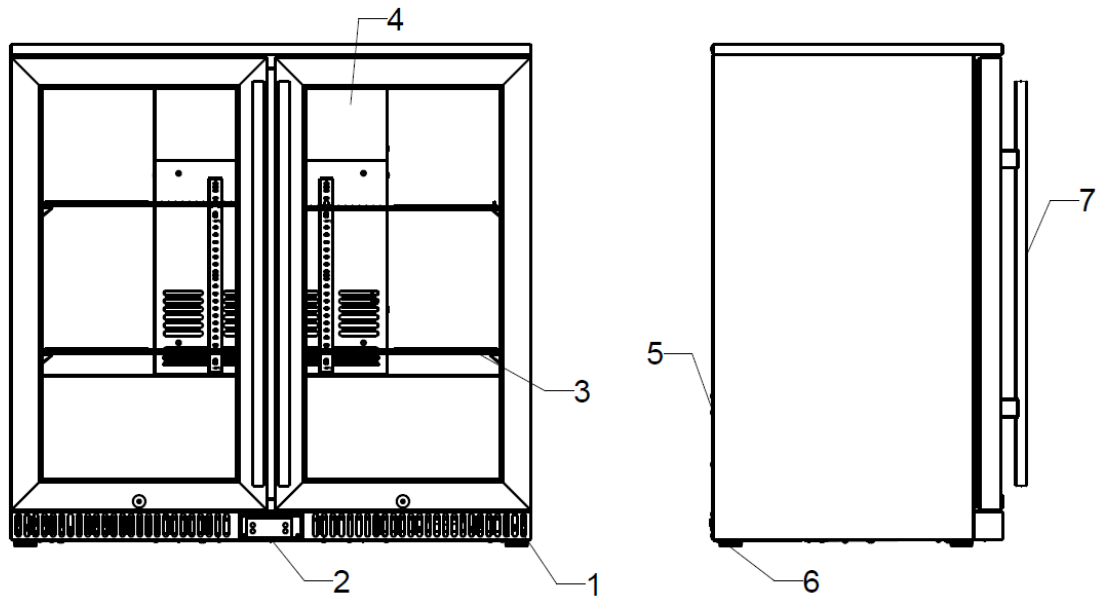


Figure 1 - Front & side views of Appliance

- 1. Front ventilation grille
- 2. Electronic control panel with temperature display and light button
- 3. Shelf
- 4. Evaporator fan motor housing
- 5. Compressor compartment cover
- 6. Adjustable feet
- 7. Door handle

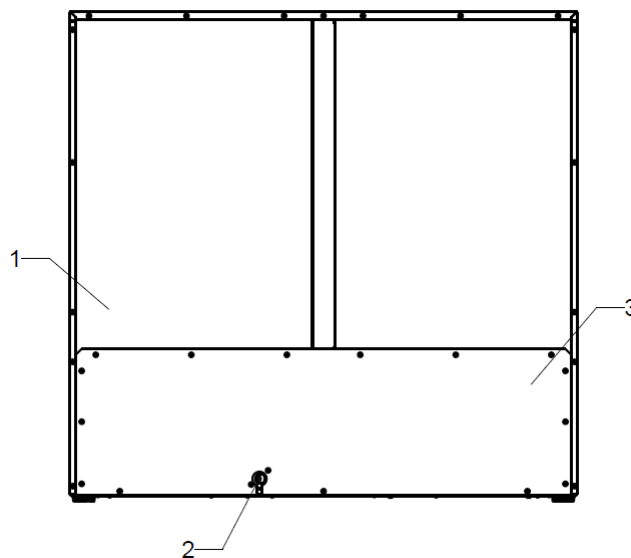


Figure 2 - Rear View of Appliance

- 1. Rear panel
- 2. Power cable exit point
- 3. Compressor compartment cover

2. Safety Information

Please observe the following safety **WARNINGS** and instructions contained within this booklet at all times.

This appliance has been designed as a Refrigerated Display Cabinet for outdoor use and is tested according to the Greenhouse and Energy Minimum Standards (Refrigerated Cabinets) Determination 2024. The appliance should not be used for other purposes.

This appliance is safety rated for outdoor use at IP24 conditions. These conditions are defined in BS EN 60529:1992 as “Splashing Water”. In practical terms this means that the appliance is protected from rain, but it is not protected from jetting water such as low pressure flow from a hose pipe nor high pressure from a power washer. Nor can any part of it be immersed in water such as temporary flooding during heavy rain. The area in which it stands must be well-drained.

The maximum environmental conditions for which the cabinet has been rated are defined as ISO Climate Class 5 (40°C ambient temperature and 40% Relative Humidity). The cabinet is fitted with double glazed doors with Low E coating which provide resistance to condensation at levels of humidity that may be higher than 40%. The appliance is frost protected and can be left running in below zero ambient temperatures, albeit that the contents must be removed. These design limits are only valid if the installation and ventilation requirements described later in the booklet have been met.

This appliance must only be connected to a suitably IP rated power supply that has been installed by a qualified electrician. It is the user's responsibility to ensure that the power socket is fully compliant with the electrical safety code that is relevant for the country of installation. A Residual Current Device (RCD) must be present within the connection circuit that supplies this appliance.

Always disconnect the mains power supply, prior to the removal of any covers, the performance of maintenance tasks, the aesthetic cleaning of the appliance or the making of any repairs. The personnel working on the appliance must be able to see that the plug is disconnected at all times.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children under any circumstances.

Do not cover or obstruct either the front or rear ventilation grilles. Lack of proper ventilation could cause a fire. You must ensure that no litter or other foreign objects can accumulate or otherwise cause obstruction.

Do not probe any of the openings in the appliance and be careful not to touch any moving parts such as the fans, nor hot surfaces in the compressor compartment such as the compressor or pipework. Take care when touching the cold surfaces such as the interior metalwork.

Do not overload the power supply. Always ensure that the power supply is compatible with the requirements stipulated on the rating plate. The rating plate is located on the interior right-hand sidewall of the appliance. If in any doubt, you must consult a qualified electrician.

Never use adaptors or multi-block extensions leads to connect the appliance to the mains power.

The mains power supply cord and plug top must be examined for damage such as cracks, cuts or splits, prior to connection to the mains power supply. If any damage is found, they must be replaced using a Rhino authorized service agent or a qualified electrician.

WARNING: Keep clear of obstruction all ventilation openings in the appliance enclosure.

WARNING: Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

WARNING: Do not use any electrical appliances inside the refrigerated compartment of this appliance.

WARNING: Do not use mechanical devices or other means to accelerate the defrosting process. Defrosting is performed automatically by the electronic controller.

WARNING: Do not damage the refrigeration circuit. If you do so, then immediately open a window or door (providing that there is no source of ignition present in the adjacent space) to ventilate the area. The appliance contains flammable refrigerant and there is risk of fire.

WARNING: This appliance contains flammable gas within its sealed system and also within the insulation foam. It is mandatory that when the cabinet reaches end-of-life that it be disposed of by a professional recycling organization. It must not be thrown away as general waste.

This appliance uses LED lighting. The lighting strips and transformer should only be replaced using genuine Rhino parts of the same technical specification.

Do not exceed the maximum shelf loading weight of 15kg per shelf.

The appliance must not be moved or tilted whilst connected to the mains power.

The appliance must always be earthed.

The appliance must only be charged with R600a refrigerant sourced from a licensed supplier.

Electrical equipment should not be placed under the unit or where refrigerant could gather in the event of a leak.

2.1 Unpacking the appliance prior to connection to the power supply:

Please equip yourself with suitable Personal Protective Equipment (PPE) such as work gloves, eye protection, strong shoes with toe protection, and a high-visibility jacket such that you may be seen by others. Please note that the weight of the appliance may require you to be assisted by others or take suitable precautions to avoid injury.

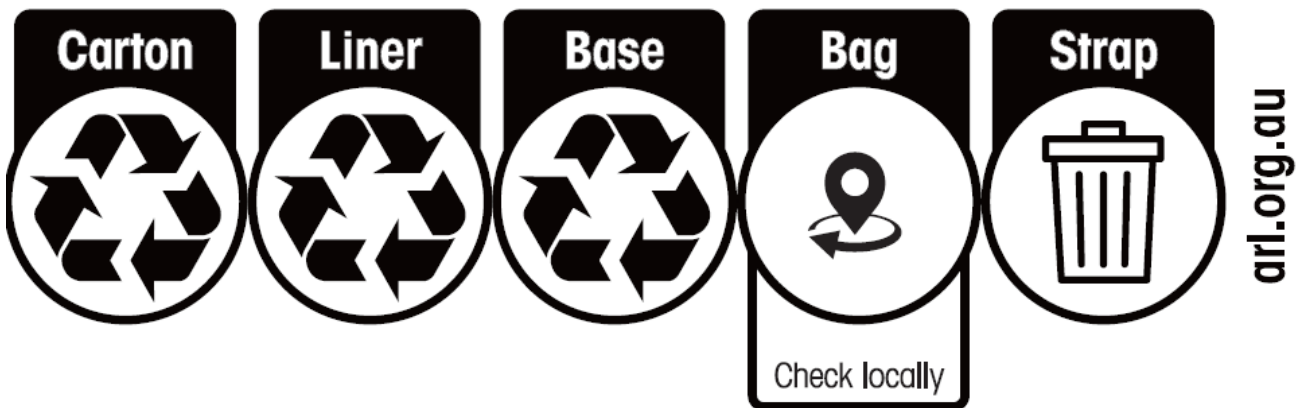
During all operations, please take care not to jolt or bump the appliance. It must be handled gently and with care. The refrigeration pipework is delicate and may be damaged by rough handling.

If the appliance has been delivered in a non-upright position then it must be returned to the upright position and left to stand for 24 hours prior to connection to the power supply.

Please cut the banding straps that secure the outer packaging and remove the cardboard sleeve, corner protection strips and the plastic bag. Carefully lift the appliance off the base and place it gently on the floor.

CAUTION! Be sure not to put the appliance down on top of the power cable or plug top.

Please ensure that the packaging is recycled according to the information contained in the symbols below. Please pay particular attention to the hazard presented by the plastic bag such that it cannot be taken by children.



Do not connect to the power supply without having checked the power supply cord and plug top as mandated in the preceding section.

The shelves may be fitted by first inserting the support clips that are shown in Figure 3 below. To release the clip, simply squeeze together whilst moving in an upward direction. When re-installing the clip, please make sure it is securely located in the shelf support strip. Always ensure that the shelves are installed level and without tilting.

CAUTION! Do not exceed the maximum shelf loading weight of 15 kg per shelf.

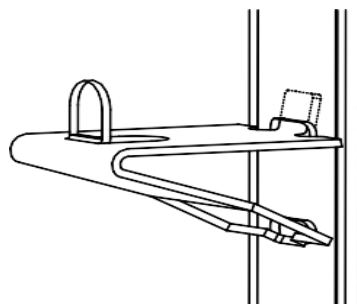


Figure 3: Shelf Clip Adjustment

2.2 Positioning and levelling the Appliance:

Do not place the appliance next to a source of heat or flame. Do not place it in a heavily chlorinated atmosphere such as in an indoor swimming pool area.

If the appliance is to be positioned beside another heat-producing appliance such as another fridge, ice making machine, glasswasher or dishwasher, then suitable compartmentalization must be arranged such that the exhaust heat from one appliance cannot cross-contaminate to the cool air intake requirements of the other.

Do not place the appliance in direct sunlight. The location must be shaded.

The appliance must be positioned on a solid and level base. Please level the appliance using the levelling feet. If you notice that the door / doors is / are not level, this may indicate that the cabinet has been twisted by an unlevel surface. Please adjust the feet until everything is aligned correctly.

The area in which the appliance is positioned must be well-drained such that in heavy rain, the appliance will not have any part submerged in standing water.

2.3 Appliance enclosure minimum ventilation space:

The appliance must have a minimum clearance of 20mm at sides top and rear (A, B C & D in Figure 4 below). It must be completely unobstructed at the front, paying particular reference to the front ventilation grille (see Figure 1 to identify the front ventilation grille).

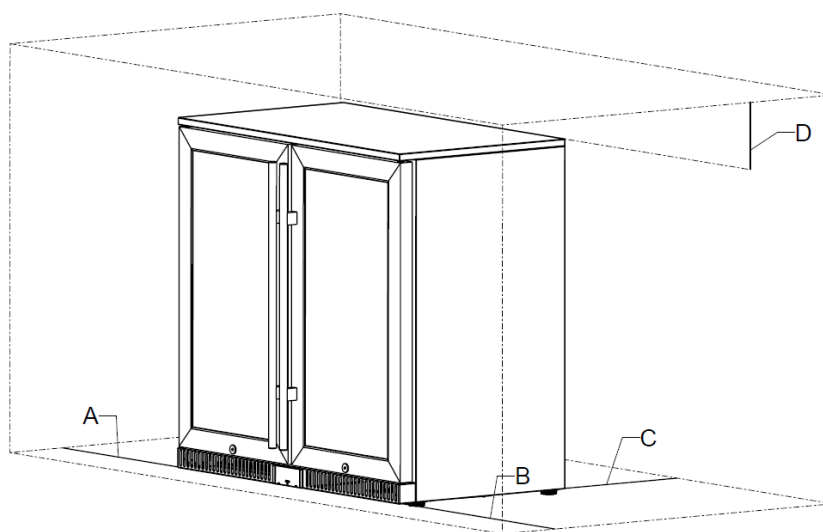


Figure 4: Minimum ventilation space

2.4 Connection to the Power Supply and Powering up:

The appliance must only be connected to a suitably IP rated power socket that has been installed by a qualified electrician. A Residual Current Device (RCD) must be present within the circuit. The connection must be of sufficient and appropriate electrical rating to power the appliance. Please ensure that the installing electrician has referred to the Rating Plate that is located inside the appliance on the right-hand side wall. The rating plate specifies the electrical requirements. Never use extension leads, adaptors or multi-block power set-ups. The only acceptable installation is from the appliance plug top, directly to the power socket.

Having ensured all of the preceding steps in this booklet have been taken, including examination of the power supply cord and plug top, plug in the appliance to the socket which should itself be in the OFF position. Then power up the socket. Carefully maneuver the appliance into the enclosure and

make any final levelling adjustments using the adjustable feet.

CAUTION! Other than for installation, do not move the appliance whilst it is powered up and running.

CAUTION! If performing maintenance on the appliance, the mains power must be fully disconnected.

3. Operation of the Appliance:

The appliance is designed to run automatically without user intervention. Defrosting and evaporation of condensate water are processes that are performed autonomously. However, there are some items of routine maintenance that must be performed according to the procedures detailed in section 4 of this booklet.

3.1 To Adjust the Temperature:

To adjust the temperature, please locate the electronic control panel which will be found on the front grille of the appliance. See Figure 5 below. The target temperature for the contents is called the "Set Point". To display the currently saved Set Point, make a short press (less than 2 seconds) on either the Up or Down arrow buttons on the fascia of the controller. If it is the desired value, then take no further actions and the controller will revert to normal after 5 seconds. To alter the Set Point, simply toggle the Up or Down arrow buttons until the desired temperature is reached and then take no further actions. The display will revert to the current air temperature inside the cabinet but the Set Point value will have been stored.

The controller shows air temperature inside the cooler and this will fluctuate with door openings and the normal cycling of the refrigeration system, defrosting etc. Given sufficient time, the contents will always reach the Set Point temperature.

3.2 Lighting:

The lighting may be switched on or off by pressing the button with the Light symbol (Lower left-hand button) on the control panel as indicated in Figure 5.



Figure 5: Controller fascia

The appliance uses LED lighting strips powered by a low voltage transformer. If replacement is required, it is a job for an appropriately qualified, skilled and competent person such as an electrician or refrigeration engineer.

3.3 Eco Function:

The GSP series of appliances is fitted with many energy saving components to reduce the power consumption. However, further power savings can be achieved by setting the cabinet into Eco Mode. When the Eco mode is activated, the temperature inside the appliance is raised by 4 degrees above the Set Point and the lights are switched off.

CAUTION!: Do not select Eco mode if food is being stored inside the appliance.

To select Eco mode make a long press on the Eco button on the top left of the fascia of the controller. (See figure 5). The display will change to “Eco”.

To return the cabinet to normal working, once again make a long press on the Eco button. The display will momentarily change to “Nor” and the cabinet will resume its normal working mode.

4.0 Maintenance

Please observe all the safety warnings, precautions and instructions set out in the preceding sections.

4.1 Cleaning the interior and exterior:

The interior should be cleaned and sanitised as often as necessary to ensure food hygiene. Never use an abrasive cleaning material or solution (such as cream cleansers) because they will damage the surfaces.

The exterior should be cleaned with a damp cloth and polished using a commercially available stainless steel cleaning product. Without regular cleaning, some light surface corrosion may occur. A good way to protect the outer stainless steel is to lightly rub olive oil onto surface a few times per year.

The glass should be cleaned using glass cleaning spray.
The door gaskets should be kept clean as well as the contact area on the cabinet.
Always observe the instructions of the cleaning solution being used.

CAUTION!: Do not use steam, jetting or running water to clean the appliance.

4.2 Cleaning the Condenser

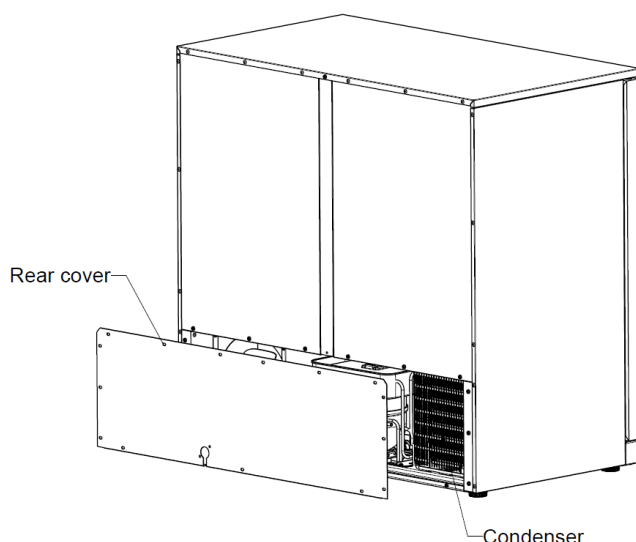


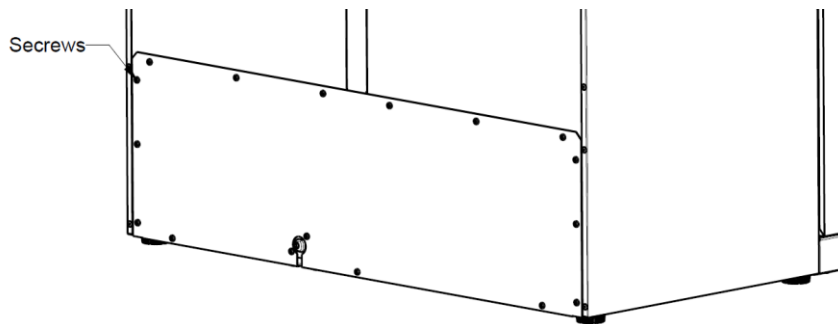
Figure 6: Location of the condenser

The condenser is accessed from the rear of the appliance, behind the cover of the compressor compartment. The function of the condenser is to dissipate the heat that has been extracted from the interior of the cabinet. This appliance has a low maintenance condenser that is less prone to blockage than other types, however, it is still recommended to check that it is clean and free from dust at least every three months. To work efficiently, it must be kept clean and free from blockage at all times.

Step 1: Empty the contents of the cabinet. Turn off the mains power switch and remove the power plug from the socket. Allow 30 minutes for the internal components to cool down before proceeding to the next step.



Step 2: Facing the rear of the appliance, unscrew the fixing screws on the top and bottom of the compressor compartment cover and remove, being careful not to lose the screws.



Step 3: Locate the condenser as indicated in Figure 6 and check the condition. The exact appearance and size will vary according to model but it always has the appearance of a black grille.



Step 4: Clean the condenser using the nozzle of a vacuum cleaner or a soft brush. Dust that is removed must be cleared away. The condenser is a delicate component and must be treated with great care and respect. Be careful of the fan blades that are nearby and be sure not to bend or deflect them in any way. Never use water in this area.



Note: If the condenser has been contaminated with grease or fat, then a skilled and competent refrigeration specialist will be required to do the cleaning. Do not use the cabinet or plug it back in until the cleaning has been done professionally by a skilled person. A fire hazard may be present.

Step 5: Replace the compressor compartment cover and screws, plug back into the mains power supply and switch on the power.

5. In the Event of a Malfunction

In the event of a malfunction, please be sure only to use a service engineer who is suitably qualified to handle flammable refrigerants and always insist upon genuine Rhino parts. If the appliance is under guarantee, please call the company from whom you purchased the appliance. Always have the serial number to hand. The serial number is located on the inside wall of the appliance.

6. Disposal at End-of Life

The sealed system of this appliance as well as the insulation material contains flammable gas. The appliance must be recycled and disposed of by a professional, qualified and regulated organization which should possess the relevant expertise. If in doubt please consult your Local Authority or contact us.



7. Storage during periods of non-use:

If the appliance is due to be powered off for any length of time, please note that it must not be left in direct sunlight. High temperatures inside the cabinet can damage the components. After disconnecting from the mains power, clean and sanitise the interior and leave it to dry out with the door ajar for at least 3 hours. Once the interior is dry, the door may be allowed to close. Prior to bringing back into service, the interior must once again be cleaned and sanitized.

8.0 Contact Us:

Staycold Export Ltd.
Hawarden Business Park
Hawarden
Flintshire
CH5 3US
United Kingdom

Telephone 01244 321320
From outside UK: +44 1244 321320
sales@staycold.co.uk
www.staycold.co.uk

Australian Distributer:

Bar Fridges Australia
40 Production Drive
Alfredton
Victoria 3350
Australia

sales@bar-fridges-australia.com.au

Tel: 1300 376849 (1300 FROTHY)

