BROMIC REFRIGERATION | Confidence and control.

INSTRUCTION MANUAL
MEDIFRIDGE DISPLAY FRIDGE
MED0220GD-NR
MED0374GD-NR

08/06/2022

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Note: Bromic Refrigeration reserves the right to make changes to specifications, parts, components and equipment without prior notification. This Installation, operation and service manual may not be reproduced in any form with prior written consent from Bromic Refrigeration.

1. PREFIX

This manual contains important information about the installation, operation, and maintenance of Bromic MediFridge™. Please pay close attention to the important safety information shown throughout this instruction manual. Any safety information will be accompanied by the following safety alert symbols:

⚠ DANGER, ⚠ WARNING, ⚠ IMPORTANT

- READ THIS MANUAL CAREFULLY before installing or servicing this product.
- Improper installation, operation, or maintenance can result in death, severe injury, or property damage.
- This appliance is intended for 230-240 Volt power supply.
- Installation MUST be carried out by a licensed and authorised technician in accordance with local electrical codes.

⚠ IMPORTANT

This Bromic MediFridge unit is intended for the storage of vaccine products under strict control. Refer to the “National Vaccine Storage Guidelines : Strive for 5” for more information on vaccine storage and handling or contact your local state of territory health department. **(https://www.health.gov.au/resources/publications/national-vaccine-storage-guidelines-strive-for-5)**

MIXING OF VACCINE PRODUCTS WITH OTHER PRODUCT TYPES IS NOT RECOMMENDED.

The loading procedure of fridges containing vaccines can be adversely affected by fluctuations in temperature. All product stored shall be pre-chilled prior to loading and door opening duration minimised.

Refer to instructions and guidelines under “Section 4. Installation guidelines” and “Section 6. Product Loading and Storage” for important information about the correct setup and use.

The manufacturer is not responsible for any damage that could happen from improper use. The manufacturer emphasises that this appliance should be used in a responsible manner and that all procedures, warnings, and safety instructions contained in this booklet be followed strictly.

2. IMPORTANT NOTES AND WARNINGS

- Read all instructions before installing or using this appliance.
- Retain this manual for future reference.
- Use this appliance only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock or injury.
- Improper installation, adjustment or alteration and failure to follow the warnings and instructions in this manual could result in severe personal injury, death or property damage.
- The manufacturer is not responsible for any damage that could happen from improper use. The manufacturer emphasises that this appliance should be used in a responsible manner and that all procedures, warnings, and safety instructions contained in this booklet be followed strictly.
- Check for damage to the appliance regularly. If damage to the appliance is suspected, discontinue use immediately and contact the supplier or qualified person to repair.
- This appliance is not intended for use by people (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible of their safety.
- Keep packaging material out reach of children.
- Children should be carefully supervised to ensure that they do not play with the appliance.
- Do not attempt to alter the appliance in any manner.
- Please pay attention to the maximum load limit when filling the baskets.
- All work on electrical equipment must be carried out by a qualified and licensed technician only.
- Do not perform maintenance until the appliance has been turned off and power disconnected.
- Never detach any cover except where specifically instructed in this manual. Doing so might expose live electrical parts.
- Do not operate the appliance with panels, covers or guards removed.
- Keep the air intake and outlets free of obstructions.
- Do not use the appliance outdoors.
- If the supply cord becomes damaged, it must be replaced by an authorised service agent or similarly qualified person in order to avoid a hazard.
- If the appliance has not been used, or will not be used for a long period of time, disconnect power supply.
- Electrical equipment should not be placed under the unit or where refrigerant could gather in the event of a leak.
- Always use original spare parts supplied by the manufacturer
- When contacting Bromic Customer Service, ensure that you have the Model, Serial Number available. The information can be found from the rating plate which is located outside the appliance.
- Unplug the appliance before cleaning or moving it to avoid electric shock.
- Never use steam cleaner or wet cloths to clean the control panel, lighting and vent grills. This may damage the appliance or cause electric shock.
- The power plug must be accessible at all times while the appliance is running.
- The power supply must be properly earthed, consult a qualified electrician if unsure.
- Do not use extension cord or power adapter with this appliance.
- Do not use this appliance in an area with high humidity or subject to water damage

Warning: Risk of fire / Flammable materials

- **WARNING:** The refrigerant (R600a Iso-Butane) used in this appliance is flammable, use caution during handling, servicing and disposal of the appliance.
- **WARNING:** Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- **WARNING**: Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.
- **WARNING**: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- **WARNING:** Ensure that the tubing of the refrigerant circuit is not damaged during transportation and installation, consult Authorised Personnel is unsure
- **WARNING**: If the refrigeration circuit becomes damaged. Avoid open flames and other source of ignition. Immediately disconnect the appliance from power supply. Ventilate the room and call Service Hotline.
- **WARNING**: Leaking refrigerant may cause eye injuries or could ignite.
- **WARNING**: The room for installing the appliance must be at least $1m^3$ per 8g of refrigerant. The amount of refrigerant in the appliance can be found on the rating plate attached to the appliance.
- **WARNING**: Do not use electrical appliances inside the food/ice storage compartments unless they are of the type recommended by the manufacturer.
- **WARNING**: In order to reduce flammability hazards, all service work of this appliance must only be carried out by an Authorised Service Person. In Queensland, the Authorised Service Person must hold a Gas Work Authorisation to service appliances containing Hydrocarbon refrigerant including removal of covers.

3. PRODUCT OVERVIEW

		MED0220GD-NR 3736217-NR	MED0374GD-NR 3736218-NR
Feature	Unit, Brand, Description	Data	Data
External Dimension	Height, mm	1310	1840
	Width, mm	595	595
	Depth, mm	598	598
Internal Dimension	Height, mm	1025	1555
	Width, mm	505	505
	Depth, mm	462	462
Capacity	Litres	215	372
Weight	Kg	63	81
Air Circulation		Fan-Forced	Fan-Forced
Climate Class		4	4
Temperature	Range	+2°C to 8°C	+2°C to 8°C
	Min/Max Temp Recorder	Yes	Yes
	Display	Digital	Digital
Exterior	Material	Powder coated sheet metal	Powder coated sheet metal
Electrical	Voltage, V	240	240
	Frequency, Hz	50	50
	Input Power, W	235	350
	Current, A	1.18	1.23
Door	Solid or Glass	Low-E Glass + Argon Gas	Low-E Glass + Argon Gas
	Shape	Flat	Flat
	Self-Closing	Yes	Yes
	Door Lock	Yes	Yes
	Door Switch	Yes	Yes
Shelves	Qty	4	6
	Type	Open rung shelf	Open rung shelf
	Depth, mm	400	400
	Adjustable	Yes	Yes
	Capacity, kg	20	20
Internal Lighting	Internal Light	Yes	Yes
Alarms	Temperature	Yes	Yes
	Audible	Yes	Yes
Compressor	Refrigerant	R600a	R600a
	Charge, g	70	70
Defrost	Type	Off Cycle	Off Cycle
	Manual/Automatic	Automatic	Automatic
Plug	Type	3-pin AU plug 10A	3-pin AU plug 10A
Feet/Wheels	Type	2 rollers at rear, 2 feet at front	2 rollers at rear, 2 feet at front

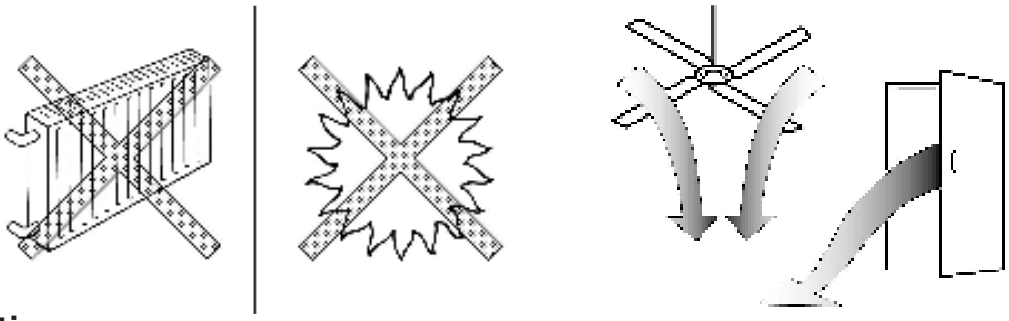
4. INSTALLATION

NOTE: The maximum ambient temperature for the refrigerator is 30°C. Conditions outside this temperature will result in cabinet temperatures outside the required 2 to 8°C range. Bromic recommends that the refrigerator is installed at an ambient temperature of 20 to 25°C and relative humidity of 55%.

Locating the Cabinet

Ensure the following instructions are observed as this is vital for proper and trouble-free operation.

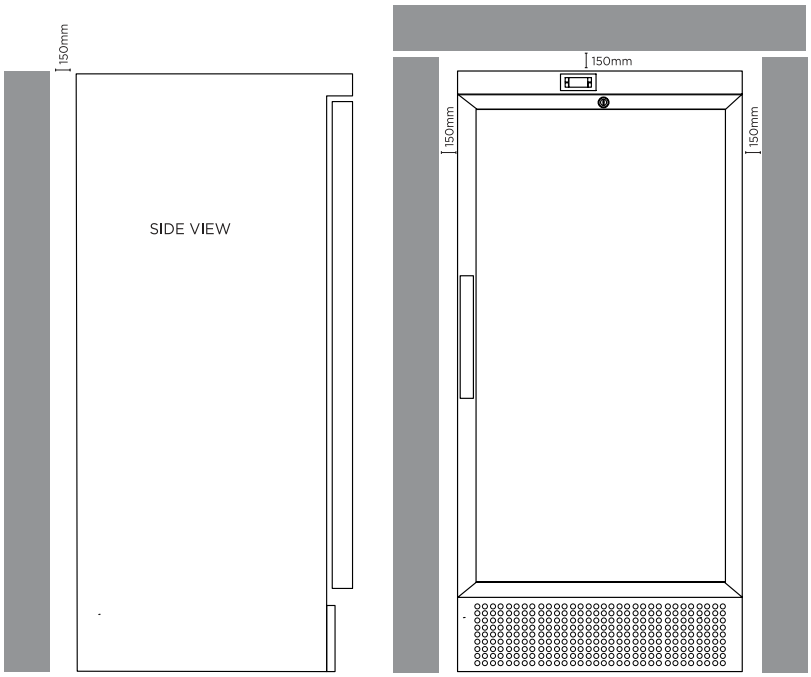
- Do not install the cabinet outdoors.
- Locate the appliance in a dry and well ventilated place.
- The unit is a commercial designed product, Do not install in noise sensitive areas.
- The unit must be positioned on a level surface.
- Do not install in the vicinity of heating radiators or other heat sources.
- Do not install the appliance where it is exposed to direct sunlight.
- Do not install the appliance where it is exposed to warm draughts or open doors.
- Keep the air intake and outlets free of obstructions.
- Adequate allowance should be made for door openings.



Ventilation

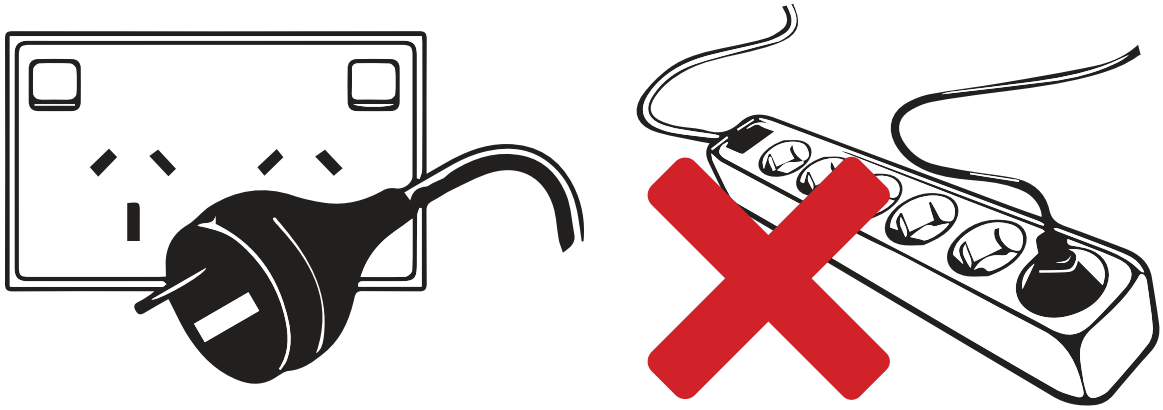
Ensure the following instructions are observed as this is vital for proper and trouble-free operation.

- Allow 150mm clearance between walls and the appliance.
- Ensure that the condenser fan is free to take in ambient air from the room.
- Adherence to minimum clearances is necessary



Power Supply

- The appliance must not be plugged into a multiple outlet power board.
- The appliance is supplied with a flexible power cord fitted with a 3-pin plug.
- The socket used must be properly earthed and fuse protected.
- See the rating label inside the cabinet for supply voltage, frequency and current draw.
- Power cable is rated 70°C. It is recommended that the cable should not come into contact with parts over 50°C.
- Do not turn off power before consulting the person responsible.
- Mark the power source clearly, so the refrigerator is not unplugged or turned off accidentally.



Before Operating

- If the appliance has been sharply tilted or transported in the horizontal position, it must be left to stand in the upright position and not plugged in for 1 hour.
- Remove all the packaging material before using the appliance.
- Start the appliance only if it has been installed as described.

5. OPERATION

Start-up

- Connect the appliance to the mains power supply and check that the compressor, electronic controller, lighting and all fans are functioning correctly.
- The compressor and condenser fan should operate should operate 3 minutes after the unit has been connected to the power supply.
- The evaporator fan should operate after the unit has been plugged in.
- The electronic controller will display the current cabinet temperature after the unit has been connected to the power supply.
- The ❄ LED indicates that refrigeration circuit is operating.
- During the start-up delay (3 minutes), the ❄ LED is flashing

Setting the temperature

NOTE: The controller is factory set at 4°C. The controller is programmed to control cabinet temperatures between 2 to 8°C.

Controller settings are locked to maintain correct temperature conditions for vaccine products and can only be changed by Bromic authorised service agents.

Operating the light

i. Set the **0-1** switch to the **'1'** position.

MAX/MIN temperature recording

IMPORTANT: Record the maximum and minimum temperatures two (2) times a day. Recordings should be taken before the first door opening of the day.

MIN Temperature

i. Press the ▼ arrow key.

ii. The **'Lo'** message will be displayed followed by the minimum temperature recorded.

iii. Press the ▼ arrow key again or wait 5 seconds – the normal display will be displayed.

MAX Temperature

i. Press the ▲ arrow key.

ii. The **'Hi'** message will be displayed followed by the maximum temperature recorded.

iii. Press the ▲ arrow key again or wait 5 seconds – the normal temperature will be displayed.

Reset MAX/MIN temperature recorded

i. While the MAX or MIN temperature recorded is displayed – press the SET key for more than 3 seconds. The **'rSt'** message will be displayed.

ii. The **'rSt'** message will start blinking and the normal temperature will be displayed.

Controller Alarms

If alarms persist, contact the manufacturer or an approved service agent.

Code	Alarm Type	Corrective Action
HA	Cabinet high temperature alarm	• Check Installation and operation of unit as per instructions • Check if there is adequate ventilation • Check if there is free circulation of air inside the cabinet • Check and clean condenser coil and fan • Check if door is shut
LA	Cabinet low temperature alarm	
P1	Cabinet probe failure	• Unplug the unit for 1 minute then reconnect to power

6. PRODUCT LOADING AND STORAGE

WARNING: Failure to follow the guidelines below will result in cabinet temperatures below 2°C and above 8°C

IMPORTANT: Run the refrigerator for at least 2 hours before loading.

Start-up

- Clean the interior surface with a soft cloth and warm water before loading.
- Position top and bottom shelves at marked locations to maintain correct air flow in unit.
- Recommend placement of product on centre of shelves or evenly distributed on shelfs with minimum 30mm air gap between containers or use of perforated baskets.
- Never stack containers and do not load unit excessively whereby air flow across the cabinet is restricted.
- Do not load product above the top shelf load line marked on the side of the cabinet.
- Do not block the evaporator fan.
- Use cold mass (i.e. 300ml saline water bottles) on unused shelves and ensure containers are separated by 30mm on all sides. This is essential for maintaining correct storage temperature during door openings.
- Avoid partial shelf loading, use cold mass on unused space
- Use cold mass (i.e. water bottle) on unused shelves.
- Keep refrigerator door openings to a minimum. Limit door opening durations to less than 30seconds. Wait 10 minutes for product and cabinet temperature to stabilise before opening door again.
- Ensure products and materials are between 2 and 8°C before loading – if there is a breach in the cold-chain, isolate the affected products. Do not use or discard until advice is given.
- Some products are sensitive to ultraviolet (UV) light, please see storage guidelines from the manufacturer before removing from packaging.
- Do not store food and other goods in the refrigerator.
- Do not change controller settings. This is essential for maintaining correct storage temperature.
- Maximum recommended shelf load is 20kg.

NOTE: Bromic cannot be responsible for loss of stock or damage to stock.

Please refer to the 'National Vaccine Storage Guidelines: Strive for 5' for more information on vaccine storage and handling or contact your local state or territory health department.

(https://www.health.gov.au/resources/publications/national-vaccine-storage-guidelines-strive-for-5)

7. MAINTENANCE

WARNING: Disconnect the appliance from the power supply before performing any maintenance. Never unplug the appliance by pulling on the cord. Always grasp the plug firmly and pull straight out of the outlet.

WARNING: Exposure to significant water ingress will void warranty and cause potential safety issues. If the unit should be exposed to water, please contact the manufacturer immediately.

IMPORTANT: Warranty may be void if there is no evidence of preventative maintenance is performed on the appliance.

Cleaning the Cabinet

- Remove the products and transfer to a suitable location prior to cleaning the inside of the cabinet.
- Do not use any aggressive or abrasive cleaning agents.
- Never use a water hose or a high-pressure jet to clean.
- Do not use sharp or pointed objects for cleaning.
- Clean the inside and outside of the appliance with a clean damp cloth or with a neutral cleanser.
- Dry all surfaces with a dry cloth.

Condenser Coil

IMPORTANT: The condenser coil must be cleaned with a vacuum or brush once a month. The condenser coil must be cleaned regularly to maintain the performance and minimise power consumption. A poorly maintained condenser coil can lead to failure of the unit and cabinet temperatures above 8°C.

Extended Defrosting

The evaporator (cooling) coil of the refrigerator may build up a layer of ice over time. This will reduce the performance of the unit – inspect the evaporator coil for ice build-up regularly. For extended defrosting, turn off the unit with the door opened for a period of 24 hours.

8. TROUBLESHOOTING

IMPORTANT: Repairs on the unit must be carried out by an authorised and licensed person only. Contact the manufacturer or an approved service agent for any repairs needed.

Symptom	Possible Cause(s)	
Unit does not work	A. No power supply	A. Check power supply
Cabinet Temperature Too High	A. Ambient temperature too high B. Inadequate ventilation C. Wall clearances below minimum distance D. Dirty condenser coil E. Ice build-up on evaporator coil	A. Relocate unit B. Keep ventilation slots free C. Adjust to minimum clearance D. Clean E. Perform extended defrosting
Cabinet Temperature Too Low	A. Set temperature too low	A. Adjust set temperature
Cabinet lights not working	A. Light not switched on B. Light is faulty	A. Switch on B. Replace light
Drip tray overflowing	A. Extreme operating condition	A. Relocate unit
Odour inside cabinet	A. Cabinet dirty	A. Clean
Cabinet too noisy	A. Move cabinet to an area that is not noise sensitive	

9. ENVIRONMENTAL AND DISPOSAL NOTES

These refrigerated cabinets are designed to high standards of environmental protection and recycling convenience. Cyclopentane, an environmentally friendly foaming agent, has been used. Cyclopentane is distinguished by zero ozone depletion potential (ODP) and zero global warming potential (GWP). The refrigerant used and contained within a hermetically tight circuit is environmentally friendly and does not contain chlorine and zero ODP.

The device must be disposed of in accordance with applicable regulations. The WEEE regulations must be observed.

In the interest of preventing environmental nuisance and promoting re-use of the high quality materials employed, used commercial refrigeration equipment must be collected for expert disposal and recycling. Therefore, observe the following disposal regulations:

- The cabinet must not be discarded with regular waste.
- The refrigeration circuit must not be damaged.
- Before disposal, make it unserviceable by disconnecting the power plug and cutting off the power cable.
- Consult your local authorities or authorised dealers for details of collection and disposal facilities.
- Children are often unable to recognise the dangers associated with commercial refrigeration equipment. Proper supervision must be maintained and children must be prevented from playing with discarded refrigerated cabinets.
- The refrigerant used in this appliance is flammable. The refrigeration circuit must not be damaged.

Warning: Risk of fire / Flammable materials

10. WARRANTY

Read all relevant documentations before operating the refrigerator and storage of any stock. Failure to follow instructions may result in loss of or damage to stock.

BROMIC CANNOT BE RESPONSIBLE FOR THE LOSS OF OR DAMAGE TO STOCK

Please refer to the 'National Vaccine Storage Guidelines: Strive for 5' for more information on vaccine storage and handling or contact your local state or territory health department.

(https://www.health.gov.au/resources/publications/national-vaccine-storage-guidelines-strive-for-5)

EXTRA CARE
WARRANTY SERVICE

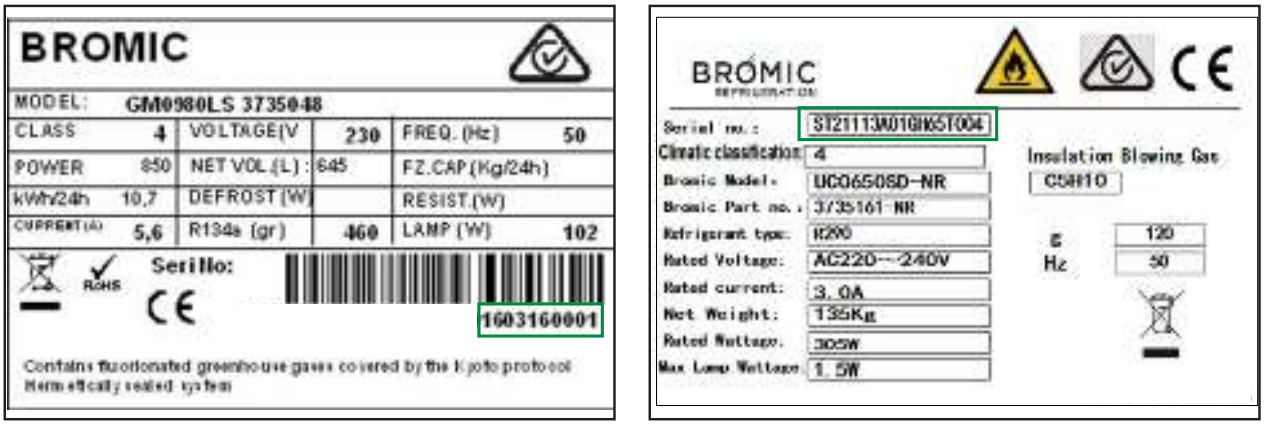
All Bromic products are manufactured to the highest quality standard and are supported by our Extra Care Service Warranty, including guarantees against any material or workmanship defects; guarantees that cannot be excluded under Australian Consumer Law.

Warranty Terms vary across the range. Please ensure you are familiar with the Terms and Conditions that apply to the purchase of your Bromic product by referring to the Warranty Policy included with your purchased product.

Alternatively, you can also download the Warranty Policy at www.bromicgroup.com/warranty-information

HOW TO PLACE A SERVICE REQUEST

- Please call 1300 276 642 to place a warranty service request and let the operator know whether you need Priority A or B service. More information can be found below.
- Ensure you have the serial number of your product ready before contacting us.
- The serial number of your product can be found on a compliance plate located on the inside right and at the rear of your cabinet.



Compliance Plate Example 1

SERVICE REQUEST PRIORITY

PRIORITY A SERVICE

When the unit is NOT performing its primary function such as cooling or heating, or presents an OH&S or food safety risk

PRIORITY B SERVICE

When the unit is performing its primary function, and presents no OH&S or food safety risk. i.e. lights, gaskets. locks, door adjustment

SERVICE CALL PLACED BEFORE MIDDAY

Priority A - Technician to attend site within 4 hours
Priority B - Technician to attend site within 8 business hours

SERVICE CALL PLACED AFTER MIDDAY

Priority A - Technician attends site before midday on the following business day

Priority B - Technician attends site before 4pm on the following business day

NOTES

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For further product information
bromicrefrigeration.com.au