Stainless Steel Counter Top Servery/Prep Refrigerators

Models:

VRX1200/330 VRX1500/330 VRX1800/330 VRX2000/330

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Safety Tips

- Position on a flat, stable surface.
- A service agent/qualified technician should carry out installation and any repairs if required. Do not remove any components or service panels on this product.
- Consult Local and National Standards to comply with the following:
    - Health and Safety at Work Legislation
    - BS EN Codes of Practice
    - Fire Precautions
    - IEE Wiring Regulations
    - Building Regulations
- DO NOT use jet/pressure washers to clean the appliance.
- DO NOT use the appliance outside.
- DO NOT use this appliance to store medical supplies.
- Always carry, store and handle the appliance in a vertical position and move by holding the base of the appliance.
- Always switch off and disconnect the power supply to the unit before cleaning.
- Keep all packaging away from children. Dispose of the packaging in accordance with the regulations of local authorities.
- If the power cord is damaged, it must be replaced by a RWA agent or a recommended qualified technician in order to avoid a hazard.

Product Description

VRX1200/330- 5 x ¼ Container Refrigerated Counter Top/Servery Prep

VRX1500/330- 7 x ¼ Container Refrigerated Counter Top/Servery Prep

VRX1800/330- 9 x ¼ Container Refrigerated Counter Top/Servery Prep

VRX2000/330- 10 x ¼ Container Refrigerated Counter Top/Servery Prep

Introduction

Please take a few moments to carefully read through this manual. Correct maintenance and operation of this machine will provide the best possible performance from your RWA product.

Pack Contents

The following is included:

- RWA Refrigerator or Freezer
- Top glass panel
- Rear glass panel
- Side glass panels x 2
- Instruction manual
- Collars x 6
- Brackets x 7
- Grub screws x 7
- Screws x 12
- Plugs x 14
- Gastranorm adaptor bar
- Adjustable feet x 4

RWA prides itself on quality and serv ice, ensuring that at the time of packaging the contents are supplied fully functional and free of damage.

Should you find any damage as a result of transit, please contact your RWA dealer immediately.

Installation

⚠ **Note: If the unit has been stored in a non-vertical position, stand it in an upright position for approximately 12 hours before operation.**

1. Remove the appliance from the packaging. Make sure that all protective plastic film and coatings are thoroughly removed from all surfaces.
2. Maintain a distance of 20cm (7 inches) between the unit and walls or other objects for ventilation. Increase this distance if the obstacle is a heat source.

⚠ **Note: Before using the appliance for the first time, clean the internal cabinet and shelves with soapy water.**

3. Set the brakes on the castors to keep the appliance in position.

Fit Glass Panels

1. Screw the collars to the rim of the appliance.

⚠ **Note: Ensure the hole in the collar for the grub screw faces inwards.**

2. Slot the two side panels into the collars, with the holes in the glass at the top.

⚠ **Note: Ensure the screw hole furthest from the edge of the panel goes to the back of the appliance.**

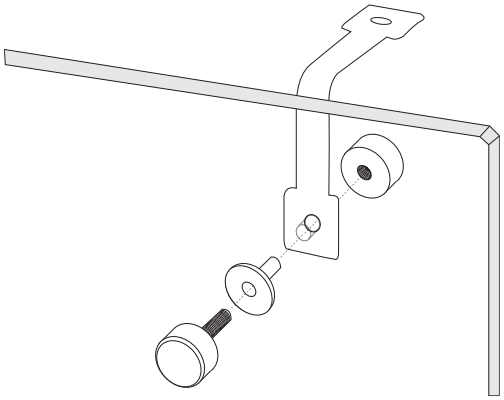
3. Screw a grub screw into each collar to secure the panels.

⚠ **Note: Ensure the soft end of the grub screw is the end making contact with the glass.**

4. Slot the rear panel into the collars, with the holes in the glass at the top.
5. Screw a grub screw into each collar to secure the panel.
6. Slot the plastic plugs into each of the holes.
7. Screw the brackets to the inside of each pane using the bolt assemblies.

⚠ **Note: Ensure the short end of the bolt assembly is on the outside of the panels.**

8. Place the top panel onto the brackets, ensuring all holes line up.
9. Insert the plugs and attach the top panel to the brackets with the bolt assemblies (see below) .



Operation

Storing Food

To get the best results from your RWA appliance, follow these instructions:

- Only store foodstuffs in the appliance when it has reached the correct operating temperature.
- Do not obstruct the fans inside the appliance.

Turn On

1. Ensure the power switch is set to [O] and turn on at the socket.
2. Switch on the Power [I]. The current temperature within the appliance is displayed.

Lock/Unlock the Control Panel

To lock the control panel:

1. Press and hold the UP and DOWN buttons simultaneously for 10 seconds.
2. Pof flashes on the display and the keyboard is locked.

To unlock the control panel:

1. Press and hold the UP and DOWN buttons simultaneously for 10 seconds.
2. Pon flashes on the display and the keyboard is unlocked.

Note:
If a button is not pressed for 10 seconds while using the control panel it times out and reverts to standby mode.

When parameters are being set the Setpoint LED will flash on the display.

Enter the Parameter Menu

1. Unlock the control panel, if locked.
2. Press and hold the SET button until 'd1 ' flashes on the display.
3. Press the SET button repeatedly to scroll to the desired parameter (see below).

Parameter	Name	Description	Range
d1	**Operating temperature**	Set the operating temperature of the appliance	-2°C to 10°C
d2	**Temperature Differential**	The Temperature Differential is the allowed temperature difference above and below the operating temperature before the compressor starts/cuts off	0 to 20°C
d3	**Temperature Range**	Set the minimum (d3) and maximum (d4) temperatures that the appliance can fluctuate between	-40°C
d4			95°C
d5	**Compressor Activation Time Intervals**	Enter the minimum time interval between the compressor turning off after turning on.	0-999 seconds
d6	**Maximum Temperature Differential Alarm**	Set an alarm to sound if the temperature inside the appliance exceeds the set operating temperature by a specified amount	0°C-50°C
d7	**Temperature Differential Alarm Delay**	Set a delay before the temperature differential alarm is triggered	0-99 minutes
d8	**Defrost Cycle Time Intervals**	Set the time between each defrost cycle	1-999 hours
d9	**Maximum Defrost Duration**	Set the maximum length of the defrost cycle **Note: The defrost duration can be overridden by parameter d10 (below), if the cut-off temperature is reached before the end of the defrost duration**	0-999 minutes
d10	**Defrost Cut-off Temperature**	Set the defrost cut-off temperature	-45°C to 50°C
d11	**Additional Cut-off Defrost Period**	Set an additional amount of defrost time after the defrost cut-off point has been reached (if required)	0-99 minutes
d12	**Delayed Actual Temperature Display**	Set the length of time the inner temperature of the appliance (before defrost started) is displayed for after a defrost cycle has finished	0-99 minutes
d13	**Compressor On/Off During Defrost**	Turn the Compressor On or Off during the defrost cycle	On (1) or Off (0)
d14	**Evaporator Drying Time**	Set the amount of time the compressor remains turned Off after a defrost cycle, reducing the amount of frost build up	0-99 minutes
=19	**Temperature Offset**	Should there be any variance between measured and actual temperature, the measured temperature can be offset to compensate	-20°C to 20°C

Parameter	Name	Description	Range
=22	**Unit of Measurement**	Set whether the temperature is displayed in Centigrade or Fahrenheit	Centigrade (0) or Fahrenheit (1)
=23	**Compressor Operation During Probe Failure**	Set whether the compressor runs or remains Off during a temperature probe failure	Compressor runs (1) Remains Off until fault fixed (0) Runs intermittently with parameters =24 and =25 (2)
=24	**Compressor 'On' Duration**	Set the length of time the compressor runs during a temperature probe failure	1-99 minutes
=25	**Compressor 'Off' Duration**	Set the length of time the compressor remains Off during a temperature probe failure	1-99 minutes
=34	**Initial Defrost After Startup**	Set whether the appliance starts a defrost cycle 10 minutes after startup or after the time programmed in parameter d8 (Defrost Cycle Time Intervals)	Begins 10 minutes after startup (0) or when programmed (1)
=38	**Minimum Temperature Alarm**	Set the display to flash should the inner temperature of the appliance drop beyond a specified point from the programmed operating temperature	1°C to 50°C

Manual Defrost

The appliance will automatically run a defrost cycle every six hours.

⚠ **Note: The cycle starts from the time the appliance is initially powered up.**

To manually defrost the appliance:

1. Press and hold the DEFROST button for 5 seconds.
2. The defrost cycle will start immediately and the Defrost LED illuminates. The defrost will last a maximum of 30 minutes.

⚠ **Note: Starting a manual defrost also resets the automatic defrost timer.**
The next automatic defrost will start six hours after the manual defrost has finished.

3. Waste water is collected in the waste water tray.

Cleaning, Care & Maintenance

- Switch off and disconnect from the power supply before cleaning.
- Clean the interior of the appliance as often as possible.
- Do not use abrasive cleaning agents. These can leave harmful residues.
- Clean the door seal with water only.
- Always wipe dry after cleaning.
- Do not allow water used in cleaning to run through the drain hole into the evaporation pan.
- Take care when cleaning the rear of the appliance. Sharp edges can cut.
- A RWA agent or qualified technician must carry out repairs if required.

Cleaning the Condenser

Periodically cleaning the condenser can extend the life of the appliance.

RWA recommend that a RWA agent or qualified technician clean the condenser.

Troubleshooting

If your POLAR appliance develops a fault, please check the following table before making a call to the Helpline.

Fault	Probable Cause	Action
The appliance is not working	The unit is not switched on	Check the unit is plugged in correctly and switched on
	Plug and lead are damaged	Call RWA agent or qualified Technician
	Fuse in the plug has blown	Replace the fuse
	Power supply	Check power supply
	Internal wiring fault	Call RWA agent or qualified Technician
The appliance turns on, but the temperature is too high/low	Too much ice on the condenser	Defrost the appliance
	Condenser blocked with dust	Call agent or qualified Technician
	Doors are not shut properly	Check doors are shut and seals are not damaged
	Appliance is located near a heat source or air flow to the condenser is being interrupted	Move the refrigerator to a more suitable location
	Ambient temperature is too high	Increase ventilation or move appliance to a cooler position
	Unsuitable foodstuffs stored in the appliance	Remove any excessive hot foodstuffs or blockages to the fan
	Appliance is overloaded	Reduce the amount of food stored in the appliance
The appliance is leaking water	The appliance is not properly levelled	Adjust the screw feet to level the appliance
	The discharge outlet is blocked	Clear the discharge outlet
	Movement of water to the drain is obstructed	Clear the floor of the appliance
	The water container is damaged	Call RWA agent or qualified Technician
	The drip tray is overflowing	Empty the drip tray
The appliance is unusually loud	The frame has become loose	Check and tighten all nuts and screws
	The appliance has not been installed in a level or stable position	Check installation position and change if necessary

Error Messages

The following table details the cause and subsequent response of the appliance to errors.

Error Message (flashing)	Cause	Appliance Response	Action
HtA	The inner temperature exceeds the set maximum temperature	Display flashes Alternating error message and current temperature	Check Troubleshooting Guide If problem persists call RWA agent or qualified Technician
LtA	The inner temperature exceeds the set minimum temperature	Display flashes Alternating error message and current temperature	Check Troubleshooting Guide If problem persists call RWA agent or qualified Technician
PF1	Short circuit or interruption of the thermostat probe input line	Display flashes	Compressor operates as specified by parameter '=23'
PF2	Short circuit or interruption of the evaporator probe input line	Display flashes	Defrost as specified by parameters d8 and d9
HLA	Inner temperature greater than 90°C	Display flashes Alternating error message and current temperature	Call RWA agent or qualified Technician
LLA	Inner temperature lower than -45°C	Display flashes Alternating error message and current temperature	Call RWA agent or qualified Technician

The alarm message will end when the alarm trigger is no longer present, except PF1 and PF2 that require the appliance to be turned Off, then On again.

Technical Specifications

Model	Voltage	Power	Current	Temperature Range	Capacity	Refrigerant	Dimensions H x W x D (mm)	Weight (Kg)
VRX1200/330	230V 50Hz	250W	1.1A	2°C to 10°C	5 x Gastranorm ¼ Container		430 x 1200 x 335	
VRX1500/330	230V 50Hz	250W	1.1A	2°C to 10°C	7 x Gastranorm ¼ Container		430 x 1500 x 335	
VRX1800/330	230V 50Hz	250W	1.1A	2°C to 10°C	9 x Gastranorm ¼ Container	R134a	430 x 1800 x 335	
VRX2000/330	230V 50Hz	250W	1.1A	2°C to 10°C	10 x Gastranorm ¼ Container	R134a	430 x 2000 x 335	

Electrical Wiring

RWA appliances are supplied with a 3 pin, moulded, BS1363 plug and lead, with a 13 amp fuse as standard.

The plug is to be connected to a suitable mains socket.

RWA appliances are wired as follows:

- Live wire (coloured brown) to terminal marked L
- Neutral wire (coloured blue) to terminal marked N
- Earth wire (coloured green/yellow) to terminal marked E

All RWA appliances must be earthed, using a dedicated earthing circuit.

If in doubt consult a qualified electrician.

Electrical isolation points must be kept clear of any obstructions. In the event of any emergency disconnection being required they must be readily accessible.

Compliance

BUFFALO parts have undergone strict product testing in order to comply with regulatory standards and specifications set by international, independent, and federal authorities.

BUFFALO products have been approved to carry the following symbol:

CE