

USER MANUAL

KBU-650, KBU-1000 SERIES BEVERAGE COOLER

Carel controller



KBU-650



KBU-1000

COMPRESSOR BEVERAGE COOLER



CONTENTS

CONGRATULATIONS

Congratulations and thank you for choosing our KingsBottle Beverage Coolers . We are sure you will find your new appliance a pleasure to use . Before you installing and operating the Beverage Cooler, we recommend that you read through the relevant sections of this manual, which provides a description of your Beverage Cooler and its functions .

To avoid the risks that are always present when you use an electric appliance, it is important that the appliance is installed correctly and that you read the safety instructions carefully to avoid misuse and hazards .

We recommend that you keep this instruction booklet for future reference and pass it on to any future owners .

After unpacking the appliance, please check it is not damaged . If in doubt, do not use the appliance but contact us or your local customer care centre

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PART I IMPORTANT SAFETY INSTRUCTIONS

Please read the user manual carefully and store in a handy place for later reference . The symbols you will see in this booklet have these meanings:



This symbol indicates information concerning your personal safety



This symbol indicates information on how to avoid damaging the appliance



This symbol indicates tips and information about use of the appliance



This symbol indicates tips and information about economical and ecological use of the appliance



TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, OR INJURY WHEN USING YOUR APPLIANCE, FOLLOW THESE BASIC PRECAUTIONS:

1. Read all instructions before using the Beverage Cooler.
2. DANGER or WARNING: Risk of child entrapment. Child entrapment and suffocation are not only problems of the past. Junked or abandoned appliances are still dangerous... even if they will "just sit in the garage for a few days".
3. Before you throw away your old Beverage Cooler:
 - Take off the door.
 - Leave the Shelves in pieces so that children may not climb inside easily.
4. Never allow children to operate, play with, or crawl inside the appliance.
5. Never clean appliance parts with flammable fluids. The fumes can create a fire hazard or explosion.
6. Do not store in the vicinity of any other appliance. Do not store near gasoline or any other flammable vapors. The fumes can create a fire hazard or explosion.



1. The cooler must be plugged into its own dedicated 110-115V, 50/60Hz AC electrical outlet .
2. The plug must be accessible when the cooler is in position.
3. It is essential the power point is properly earthed to ground . Consult a qualified electrician if you are unsure .

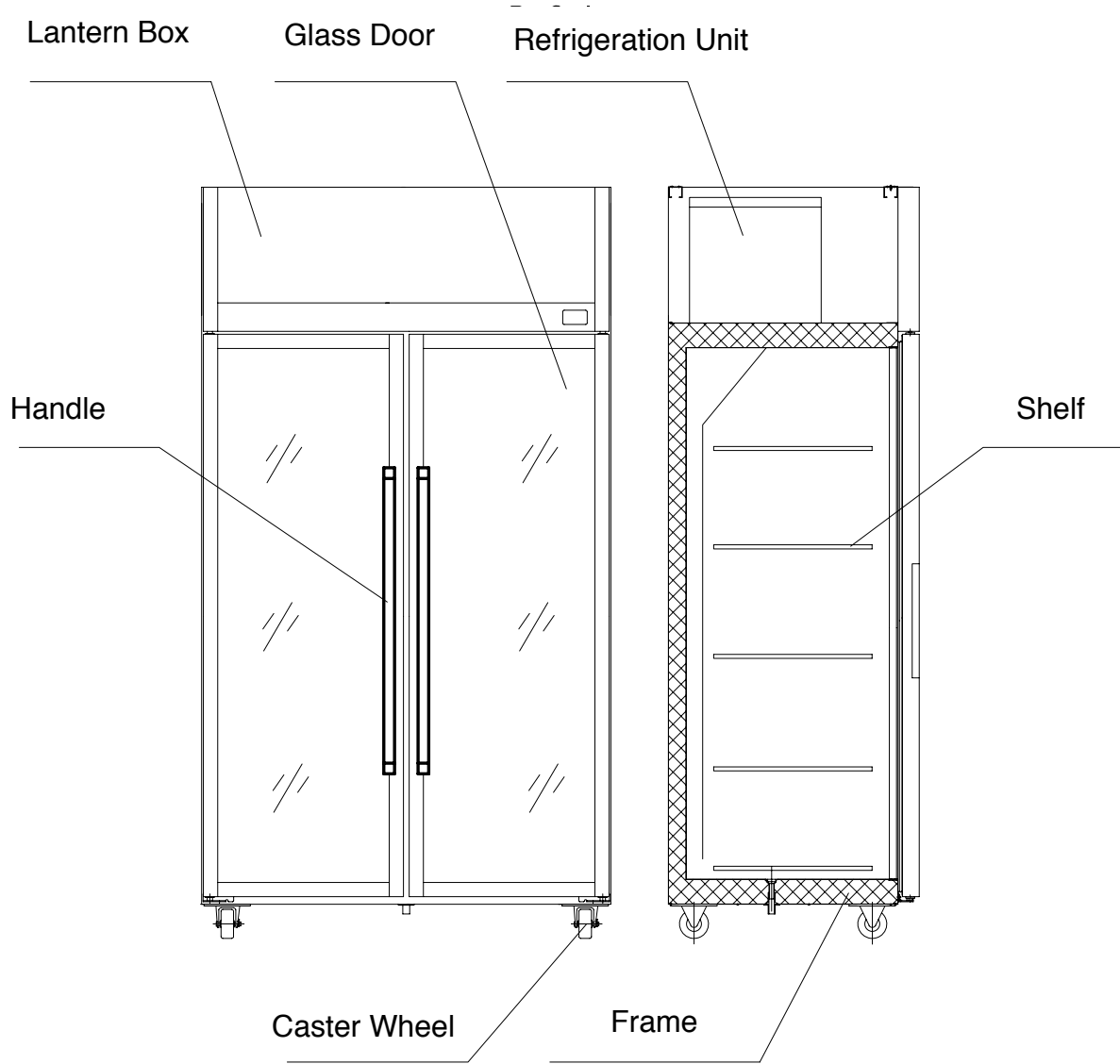
4. Don't use extension cords or adapter plugs with this cooler .
5. If the power cord is damaged, have it replaced by a qualified service technician .
6. Unplug the cooler before cleaning it, or changing the light bulb to avoid electric shock .
7. Never unplug the cooler by pulling the electrical cord as this may damage it. Grip the plug firmly and pull straight out .
8. Choose a location for your cooler that isn't too cold . The ambient room temperature should be above 50°F .
9. Stand your cooler in a dry place – avoid areas of high moisture or humidity .
10. Don't put the cooler in frosty or unprotected areas like a garage or on the verandah .
11. Keep the cooler out of direct sunlight .
12. Don't locate the cooler near stoves, fires or heaters .
13. When installed correctly, your cooler should:
 - Have adequate space at the back and sides for air circulation.
 - Be aligned to the surrounding cupboards .
 - Have doors that will self-close from a partially open position
14. Please inspect and clean the filter in front venting grill every month. Failure to clean will void the warranty and increase the running costs.

BEFORE USING YOUR BEVERAGE COOLER

1. Remove the exterior and interior packing.
2. Before connecting the Beverage Cooler to the power source, let it stand upright for approximately 24 hours. This will reduce the possibility of a malfunction in the cooling system from handling during transportation.
3. Clean the interior surface with lukewarm water using a soft cloth.

FEATURES

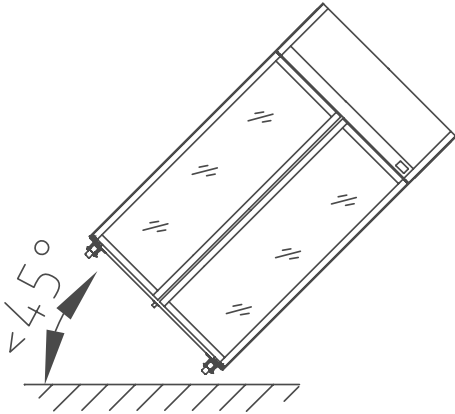
PART II DIAGRAM & DESCRIPTION OF BEVERAGE COOLER



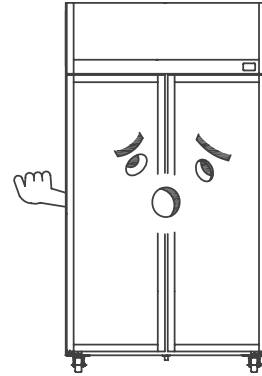
COMPRESSOR BEVERAGE COOLER

INSTALLATION

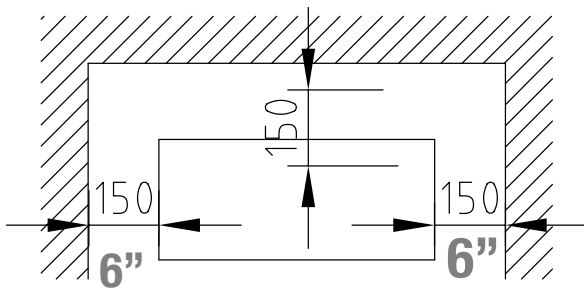
PART III INSTALLATION INSTRUCTIONS



When moving your Beverage Cooler, please do not incline it more than 45 degrees



Locate the Beverage Cooler away from direct sunlight and sources of heat (stove, heater, radiator, etc.)



This free-standing model requires adequate ventilation around, minimum 6" (150mm) on either side and the rear is requested.

INSTALLATION

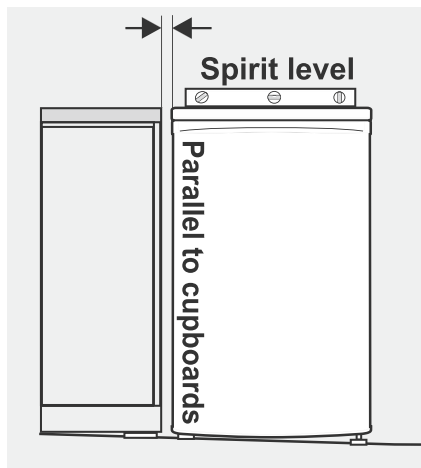
PART III INSTALLATION INSTRUCTIONS

A. GENERAL INSTALLATION INSTRUCTIONS

1. This appliance is designed for free standing.
2. Place your Beverage Cooler on a flat, solid floor that is strong enough to support it when it is fully loaded. To level your Beverage Cooler, adjust the leveling leg at the bottom of the Beverage Cooler
3. When moving your Beverage Cooler, please do not incline it more than 45 degrees.
4. Locate the Beverage Cooler away from direct sunlight and sources of heat (stove, heater, radiator, etc.). Direct sunlight and heat sources may increase electrical consumption. Extreme cold ambient temperatures may also cause the unit to perform improperly.
5. Avoid locating the unit in damp areas.
6. Plug the Beverage Cooler into an exclusive, properly installed and grounded wall outlet. Do not under any circumstances cut or remove the third (ground) prong from the power cord. Any questions concerning power and/or electrical grounding should be directed to a certified electrician or authorized products service center.

B. INSTALLING YOUR BEVERAGE COOLER

1. Move the appliance into its final position .
2. If the appliance is not tilting back as described earlier, minor adjustments can be made to the leveling legs.
3. Compare the alignment of the appliance to the surrounding cupboard . The top of the appliance should be level from side to side (see diagram below) .



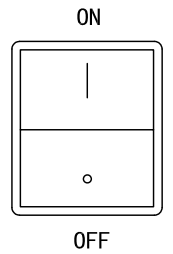
4. If the appliance now rocks from one corner to the opposite rear corner, this means that the floor is uneven. You may need to put some packing under the ridge to the rear of the appliance . You could use thin pieces of solid material such as thin board, vinyl floor tiles or laminate .
5. You may now need to fine tune the installation by repeating steps 2, 3 and 4 .
6. Wipe off any dust that has accumulated during shipping and clean following the directions in Part VIII (Care & Maintenance)
7. Plug the appliance into the power point. Don't use a double adaptor or extension cord .
8. It is recommended that you let the appliance for an hour or two before you put any wine in it . This will confirm that it is operating correctly and make the conditions appropriate for wine storage .

Congratulations! You have successfully installed your cooler/refrigerator/freezer

OPERATION

PART IV OPERATING YOUR BEVERAGE COOLER

This KingsBottle Refrigerator series comes with the worlds best quality controller from CAREL Italy. Before using your Refrigerator, please read these instructions carefully .



Light Switch

KEYBOARD :

- UP/POWER: Increase the value / holding the button for at least 3 seconds, powers the unit ON or OFF.
- DOWN/DEFROST: decrease the value / holding the button for more than 3 seconds start/stop defrost.
- SET/MUTE: Use SET after selecting values with the up and down arrows / alarm mute button.

Display and functions

During normal operation, the controller displays the value of the probe set using parameter /4 (=1 ambient probe, default, =2 second probe, 3= third probe). In addition, the display has LEDs that indicate the activation of the control functions (see Table 1), while the 3 buttons can be used to activate/deactivate some of the functions (see Table 2).

Compressor LED signals

icon	function	normal operation			start up
		ON	OFF	blink	
	compressor status	on	off	ON request in progress	ON

Tab. 1

Functions activated using the buttons - PJEZS

button	function	normal operation		start up	
		pressing the button alone	pressed together	Pressed together start	parameter reset procedure
	up ON/OFF	more than 3 s: toggle ON/OFF	Pressed together start/stop continuous cycle	-	-
	down defrost	more than 3 s: start/stop defrost		Pressed together start	for 1 s display firmware vers. code
	set mute	- 1 s.: display/set the set point - more than 3 s: access parameter setting menu (enter password '22')	-	parameter reset procedure	for 1 s RESET current EZY set

Tab. 2

OPERATION

SETTING THE SET POINT (DESIRED TEMPERATURE)

- press SET for 1 s, the set value will start flashing after a few moments;
- increase or decrease the value using UP or DOWN;
- press SET to confirm the new value.

SWITCHING THE DEVICE ON/OFF

Press UP for more than 3 s. The control and defrost algorithms are now disabled and the instrument displays the message "OFF" alternating with the temperature read by the set probe.

MANUAL DEFROST

Press for DOWN more than 3 s (the defrost starts only the temperature conditions are valid).

CONTINUOUS CYCLE

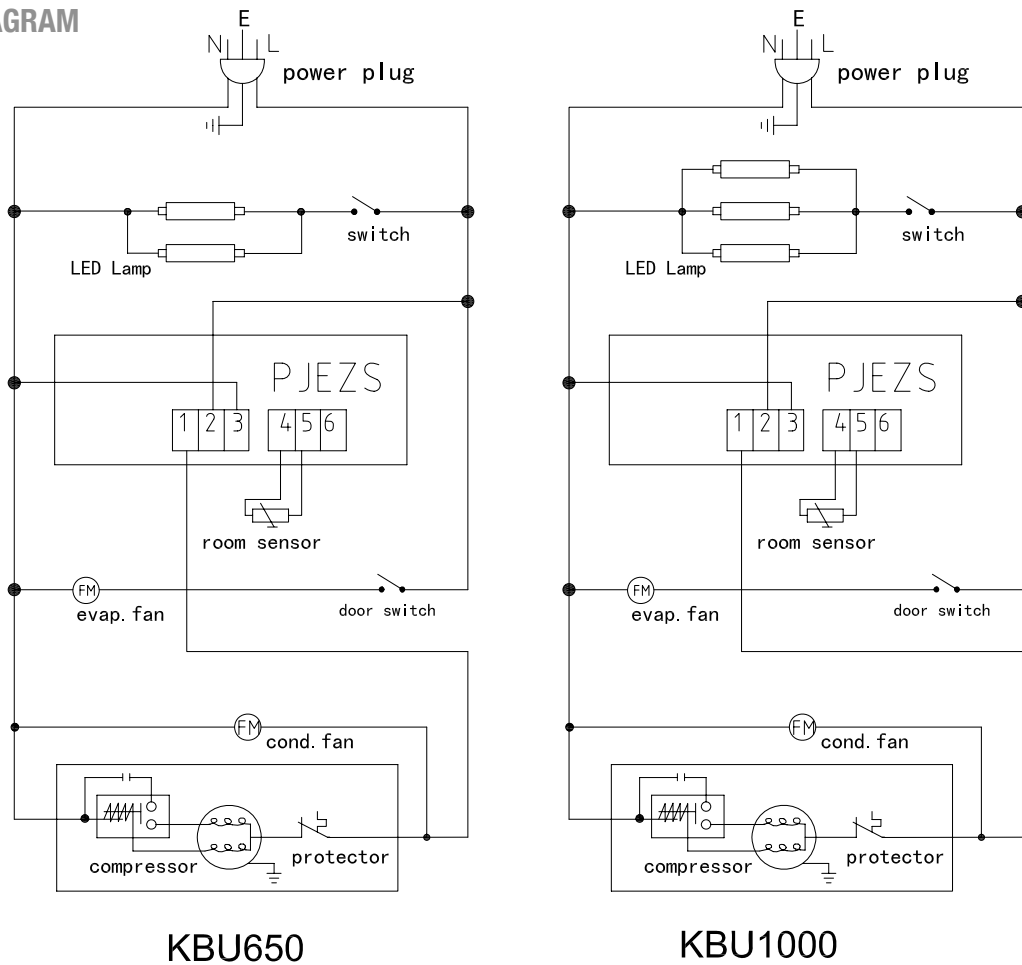
Press UP and DOWN together for more than 3 s.

ACCESSING AND SETTING THE FREQUENT PARAMETERS (TYPE F AND TYPE C)

1. press SET for 3 s (the display will show "PS");
 - to access the type F and C parameter menu, enter the password "22" using UP/DOWN;
 - to access the F parameter menu only, press SET (without entering the password);
2. scroll inside the parameter menu using UP/DOWN;
3. to display/set the values of the parameter displayed, press SET, then UP/DOWN and finally SET to confirm the changes (returning to the parameter menu).

To save all the new values and exit the parameter menu, press SET for 3 s;
To exit the menu without saving the changed values (exit by timeout) do not press any button for at least 60 s.

CIRCUIT DIAGRAM



KBU650

KBU1000

TABLE OF PARAMETERS

CODE	DESCRIPTION	MIN	MAX	DEFAULT	UOM
PS	password	0	99	22	-
PROBE PARAMETERS					
/2	probe measurement stability	1	15	4	-
/5	select °C/°F (0= °C; 1= °F)	0	1	1	-
/6	disable decimal point	0	1	0	-
/C1	probe 1 offset	-50	50	0	(°C/°F) / 10
CONTROL PARAMETERS					
St	user set point	r1	r2	39	°C/°F
rd	STANDARD differential	0	19	3	°C/°F
r1	minimum set point allowed to the user	-50	r2	32	°C/°F
r2	maximum set point allowed	r1	150	43	°C/°F
COMPRESSOR PARAMETERS					
c0	Start delay when COMPRESSOR ON is required by the Regulation	0	200	6	Min
c1	delay between 2 consecutive starts	0	100	0	Min
c2	minimum compressor OFF time	0	100	6	Min
c3	minimum compressor ON time	0	100	0	Min
c4	compressor ON time with duty setting	0	100	0	Min
cc	Continuous cycle duration	0	15	4	Hours
c6	Alarm bypass time after cont. cycle	0	15	2	Hours
DEFROST PARAMETERS					
d0	Type of defrost (0 and 1=defrost by temperature; 2, 3 and 4=defrost by time)	0	4	0	-
d1	Start defrost condition : interval time	0	199	8	Hours
dP	End defrost condition : max time defrost duration	1	199	30	Min
d4	if defrost when switching the instrument on (0=no ; 1=yes)	0	1	0	-
d5	Defrost delay on start-up or from digital input	0	199	0	Min
d6	temperature displayed "frozen" during defrost (when d6=0 "dF" is displayed); Freeze regulation probe temperature before defrost start (when d6=1)	0	1	1	-
dd	dripping time (stop compressor after defrost)	0	15	2	Min
d8	LOW temperature alarm bypass time after defrost	0	15	0	Hours
d9	defrost priority over compressor protectors (if d9=1 c2, c3, c4 are bypassed)	0	1	0	-
d/	Evaporator probe reading (read only)	-	-	-	°C/°F
ALARM PARAMETERS					
A0	alarm temperature differential	-20	20	0	°C/°F
AL	absolute/relative temperature for low temperature alarm	-50	150	-30.2	°C/°F
AH	absolute/relative temperature for high temperature alarm	-50	150	82.4	°C/°F
Ad	temperature alarm delay	0	199	120	Min
EVAPORATOR FAN PARAMETERS					
F0	Start delay when FAN ON is required by the Regulation	1	100	1	sec
Fd0	Fan STANDARD Duty Cycle : ON time	1	100	1	Min
FdF	Fan STANDARD Duty Cycle : OFF time	1	100	1	Min
OTHER PARAMETERS					
H0	supervisor serial address	0	207	1	-
H1	Optional AUX output configuration 0= No function associated with the output 1= Alarm output usually energised; 2= Alarm output usually de-energised 3= Auxiliary output driven by dig. input [A4=6/7/8] dig. input OPEN=AUX de-energised; dig. input CLOSED=AUX energised				
H4	disable buzzer (1 = disable)	0	1	0	-
H5	ID code (read-only)	0	199	1	-

OPERATION

TABLE OF ALARMS

ALARM CODE	DESCRIPTION
E0	probe 1 error=control
E1	probe 2 error=defrost
LO	low temperature alarm
HI	high temperature alarm
EE	unit parameter error
EF	operating parameter erro
dF	defrost running

NOTE:

The desired temperatures may fluctuate depending on whether the interior light is ON or OFF, the ambient temperature, the location of unit and the orientation of the bottles. The display is just a guide, be guided by how cold your drinks are at consumption. Remember units go into defrost mode and this will show a higher display, it's only for small periods and doesn't have time to effect drink temperature. In general once unit has settled it will keep products within 5°F (2°C) of the set temp easily in temperatures up to and beyond 100°F (38°C) .



CAUTION:

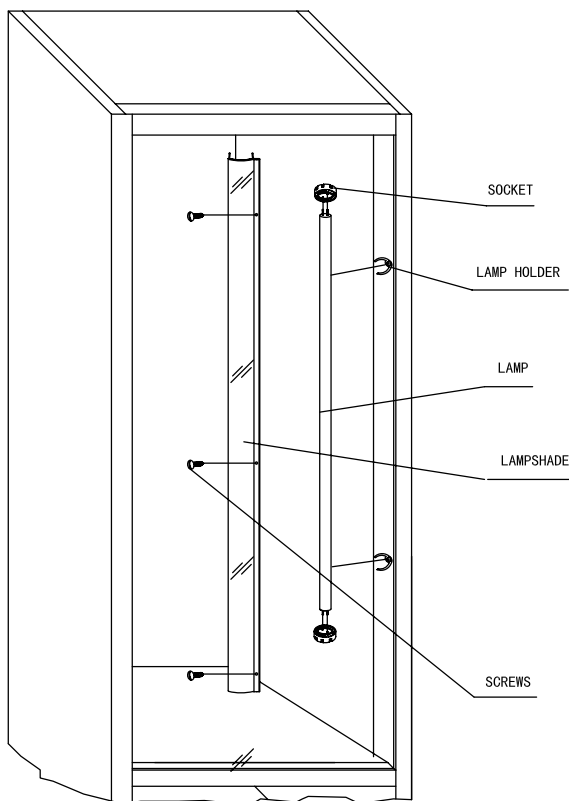
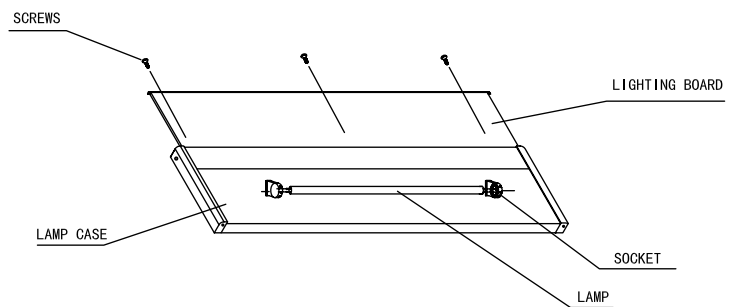
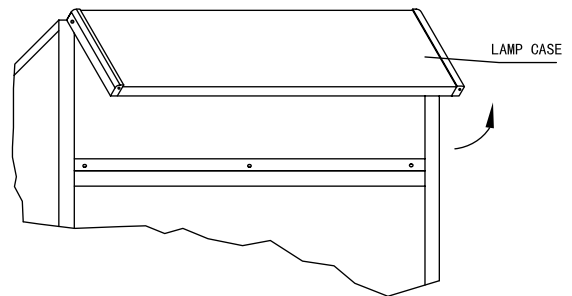
1. In the event of a power interruption, all previous temperature settings will be automatically saved and each compartment will return to the previous temperature setting.
2. If the unit is unplugged, loses power, or is turned off, you must wait over 6 minutes before restarting. Within this 6 minutes, compressor protect itself and will not start even power ON again
3. When you use the Beverage Cooler. for the first time or restart the Beverage Cooler after having been shut off for a long time, there will be a few degrees variance between the temperature you select and the one indicated on the LED readout for the first few hours of operation. After a few hours of operation, the temperature will normalize to the displayed temperature.

REPLACEMENT OF LAMP

PART V REPLACEMENT OF LAMP

A. LAMP OF LAMP CASE:

1. Unplug the power cord
2. Remove the lamp case
3. Remove screws at the both end of the lamp case.
4. Remove the decorative plated from the lamp case.
5. separate the lamp from the lamp holder
6. separate the lamp socket and replace the lamp
7. After replacement, ensure lamp case is replaced.



B. INTERIOR LAMP:

1. Unplug the power cord
2. Open the glass door
3. Remove lampshade by taking out screws on the right side
4. Separate the lamp from the lamp holder
5. Separate the lamp socket and replace the lamp with care
6. After replacement, ensure lampshade is replaced.

CARE AND MAINTENANCE

PART VI CARE AND MAINTENANCE

CLEANING YOUR BEVERAGE COOLER



BEFORE CLEANING: Turn off the power, unplug the appliance, and remove all items including all shelves.

- Wash the inside surfaces with warm water and baking soda solution. The solution should be about 2 tablespoons of baking soda with a quart of water.
- Wash the shelves with a mild detergent solution.
- Wring excess water out of the sponge or cloth when cleaning area of the controls, or any electrical parts.
- Wash the outside cabinet with warm water and mild liquid detergent. Rinse well and wipe dry with a clean soft cloth.
- After installation, **we recommend that owners apply a thin layer of Olive Oil with a clean rag, to all exposed Stainless Steel areas.** This should then be polished in and buffed off with another clean rag to a non-oily finish. This process will aid protection against dirt and other corrosive contaminants, by providing a temporary food-safe shield. The Olive Oil layer also makes later polishing and removal of fingerprints easier. This process should be repeated frequently every 3-4 months. ALL stainless steel can rust, it is a myth that stainless steel doesn't rust.

POWER FAILURE

Most power failures are corrected within a few hours and should not affect the temperature of your appliance if you minimize the number of times the door is opened. If the power is going to be off for a longer period of time, you need to take the proper steps to protect your contents.

FILTER CLEANING

PLEASE INSPECT & CLEAN FRONT GRILL FILTER EVERY MONTH

Failure to clean will void the warranty and increase the running costs.

VACATION TIME

Short vacations: You may leave the Beverage Cooler operating during vacations of less than three weeks.

Long vacations: If the appliance will not be used for several months, remove all items and turn off the appliance. Clean and dry the interior thoroughly. To prevent mold growth, leave the door open slightly, blocking it open if necessary.

MOVING YOUR BEVERAGE COOLER

1. Remove all items.
2. Securely tape down all loose items (shelves) inside your appliance.
3. Turn the adjustable leg up to the base to avoid damage.
4. Tape the door shut.
5. Be sure the appliance stays secure in the upright position during transportation. Also protect the outside of the appliance with a blanket or similar item.

ENERGY SAVING TIPS

1. The Beverage Cooler should be located in the coolest area of the room, away from heat producing appliances, and away from direct sunlight. Ventilation at rear also helps a lot with energy usage, so create a positive air flow where possible, although with this range they are designed to be fully built in.
2. When you are not using fridge during weekdays etc. it is recommended to set the temp at a higher level, so set at 47°F (8°C) during periods of non usage, this will not only mean less run time, it also still keeps drinks at a temp that won't be spoiled. It saves energy also which these days is a growing concern for most households.
3. Keep the cooler stocked, an empty cooler will run longer, believe it or not.

TROUBLESHOOTING GUIDE

PART VII TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	Solution
Cooler does not operate	<ol style="list-style-type: none"> Not plugged in The appliance is turned OFF at the control panel The circuit breaker tripped or a fuse has blown out 	Press ON/OFF Check and make sure the power plug is well connected Ask engineer for help
Wine cooler is not cold enough; can not cooling down to preset temp.	Compressor does not start	ask engineer for help, check the connection of compressor
	Compressor self-protected and stop operating	Ambient temperature is too high and over 38C degree Air venting is not smooth, check the air duct and make sure it is not blocked Fan operates slowly or faulty and stop operating. Door is not closed completely, or door open for long time Compressor or its components faulty
	Fans stop working or low speed operating	Ask engineer for help, power on the cooler, check the fan whether the voltage is normal or not. If the voltage is normal, the fan should be damage
	Evaporator ice up	Turn OFF the cooler for one hour, sometimes need also open the door, ice on evaporator will melt. Then turn ON and check again.
	Door is not well closed	Check the door lock, shelves, or other objects, make sure door is well closed. Check the sealing rubber, make sure door is well sealed. Check the door hinges, make sure they are not loose
	Condenser is dusty	Wash and clean the condenser
	Cooling system faulty (Gas leakage or blockage)	Ask engineer for help
Compressor start and stop frequently	The door gasket does not seal properly.	Use hair dryer to blow hot air and make the door seal smooth.
	The sensor connection is wrong.	According to the wiring diagram and make the correct connection of sensor
	The sensor is faulty.	Replace with new sensor
	The door is opened too often.	Reduce the times / frequency of door opening.
The light does not work.	Not plugged in, or the light button is "OFF". Light itself faulty.	Check and make sure the light button is ON, or ask engineer for help.
The Cooler seems to make too much noise.	The stand feet is not leveling, vibrations lead to noise	Adjust the stand feet and assure they are on level.
	Pipe hit other objects and lead to noise	Adjust the position of pipe slightly
	At the moment of compressor shut down or start, it is normal for the noise from the vibration generated by the internal moving parts due to inertial motion.	nothing is necessary
	The ratting noise may come from the flow of the refrigerator, which is normal. As each cycle ends, you may hear gurgling sounds	nothing is necessary
The door will not close properly.	Door is blocked by the door lock, shelves, or other objects.	Remove the barrier
	Door sealing rubber is deformed	Repair or replace the rubber seal
	Door hinges are not loose.	Adjust and fasten the hinges.
Ice up	Outlet / suction outlet blockage	Remove the barrier
	Fans stop working or low speed operating	Ask engineer for help, power on the cooler, check the fan whether the voltage is normal or not. If the voltage is normal, the fan should be damage
	The door gasket does not seal properly; or door is opened too often	Use hair dryer to blow hot air and make the door seal smooth.
	Gas leakage or cooling system blockage	Ask engineer for help
External cabinet seems too hot	Ambient temperature is too high, or direct sunshine	Using conditions need to be improved
	Front grill outlet / suction outlet blockage	Remove the barrier
	Fans stop working or low speed operating	Ask engineer for help, power on the cooler, check the fan whether the voltage is normal or not. If the voltage is normal, the fan should be damage
Water drop on glass door	Ambient humidity is high	Use a soft cloth to clean the water
	Door is opened too often	Reduce the times / frequency of door opening.
	The door gasket does not seal properly	Use hair dryer to blow hot air and make the door seal smooth.
	Condensation is forming on outside of glass door	Have you turned the 'Heated Door Function' ON? located next to the temperature controller. You shouldn't have condensation on glass with these models if this function is ON.



KingsBottle™
Coolers Fit for a King

TECHNICAL DATA

PART VIII TECHNICAL DATA

MODEL NO.	KBU-650	KBU-1000
VOLUME	650 Liter	1000 Liter
TYPE OF COOLING	compressor with air-circulated fan cooling	compressor with air-circulated fan cooling
CLIMATE TYPE	N / ST	N / ST
ELECTRICITY PROTECTION GRADE	I	I
NOMINAL VOLTAGE/FREQUENCY	110-115V/50-60HZ	110-115V/50-60HZ
RATED POWER(W)	380W	450W
AMBIENT TEMPERATURE	41 - 100 °F	41 - 100 °F
TEMPERATURE RANGE	34-43 °F	34-43 °F
NET WEIGHT	260.2 Lbs (118 Kgs)	326.3 Lbs (148kgs)
GROSS WEIGHT	275.6 Lbs (125 Kgs)	370.4 Lbs (168 kgs)
DIMENSION	29.2"W x 28.6"D x 86.5"H (740W x725D x2195H mm)	47.7"W x 31.7"D x 92.2"H (1210W x805D x2340H mm)

COMPRESSOR BEVERAGE COOLER

WARRANTY

PART IX WARRANTY INFORMATION

Please speak to your Retailer before calling **BTO AMERICA LIMITED** (also known as **KingsBottle**) if you did not purchase your Beverage Cooler directly from BTO AMERICA LIMITED

Limited warranty – If your refrigerator is not operating, KingsBottle reserves the right to repair or replace the refrigerator. KingsBottle may request the consumer to contact a local refrigeration company to service the refrigerator. All cost for labor and materials is covered for 1 year from the date of receipt. If KingsBottle deems the unit not repairable, KingsBottle will use the value of your original order toward a replacement. For customer service, please contact **BTO AMERICA LIMITED** by e-mail (service@kingsbottle.com).

The limited warranty does not cover: Damage due to such things as accident, misuse, abuse, mishandling, neglect, unauthorized repair or any other cause beyond the control of the seller whether similar or dissimilar to the foregoing. Purchaser understands and acknowledges that the goods sold here are Beverage Coolers, which house wine. Purchaser assumes all the risk of using these units, including risk of spoilage, humidity variations, temperature variations, leaks, fires, water damage, mold, mildew, dryness and similar perils that may occur.

SPECIAL NOTE: Warranty is only honored for the unit which is purchased and used in United States of America. And, if your product was purchased at any 3rd party retailer and not directly from KingsBottle, we do not offer an extended warranty policy. You **MUST** contact the retailer of purchase directly. In the event your retailer does not offer an extended warranty plan, we recommend you contact a third party warranty provider. However, regardless of point of purchase, all KingsBottle coolers are backed by a **ONE YEAR** manufacturer's warranty from date of sale.



COMPRESSOR BEVERAGE COOLER

