

E-KBC-65



Back bar Cooler Models

- E-KBC36
- E-KBC50
- E-KBC65
- E-KBC95

Please read this manual completely before attempting to install or operate this equipment. Notify carrier of damage! Inspect all components immediately.

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SPECIFICATION

MODEL#	V/Hz/Ph	AMPS	STORAGE CAPACITY	HP	BTU	CHARGE OZ	SHIP WEIGHT LBS	NEMA PLUG
E-KBC36	115/60/1	1.8	10	3/8	2000	2.12	161	5-15P
E-KBC50	115/60/1	3.0	15	1/2	3200	2.47	310	5-15P
E-KBC65	115/60/1	3.0	20	1/2	5400	3.17	353	5-15P
E-KBC95	115/60/1	3.3	26	1/2	7600	3.53	439	5-15P

THESE UNITS ARE FOR A COMMERCIAL KITCHEN THAT IS NOT TO EXCEED 75 DEGREES F AND HAS LESS THAN 60% RELATIVE HUMIDITY. IF THESE CONDITIONS ARE NOT MET AND YOU HAVE AN ISSUE WITH YOUR UNIT IT WILL NOT BE COVERED UNDER WARRANTY.

Refrigeration units should be placed in position and left unplugged for at least 24 hours prior to start-up. This is due to the unit moving around during shipment, and the unit needing to settle prior to placing into use

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.

Our product instructions will be uploaded on our company official website.



This is the Safety Alert Symbol. This symbol alerts you to potential hazards that can kill or injure you and others. All safety messages will follow the Safety Alert Symbol and either the words "DANGER", "WARNING" or "CAUTION".



Danger means that failure to heed this safety statement may result in severe personal injury or death.



Warning means that failure to heed this safety statement may result in extensive product damage, serious personal injury, or death.



Caution means that failure to heed this safety statement may result in minor or moderate personal injury, or property or equipment damage.

All safety messages will alert you to what the potential hazard is, tell you how to reduce the chance of injury, and let you know what can happen if the instructions are not followed.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

This appliance is not intended for use by persons (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 for their safety.

Children should be supervised to ensure that they do not play with the appliance.

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 without supervision.

Keep the appliance and its cord out of reach of children less than 8 years.

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

The appliance use flammable insulation blowing gas C5H10, disposal of the appliance shall in accordance with the regulations of local authorities.

The key for appliance electric box should be safe kept by qualified persons in order to avoid a hazard



Warning; Risk of fire / flammable materials

WARNING: Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

WARNING: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

WARNING: Do not damage the refrigerant circuit.

WARNING: Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

Handling, moving, and use of the refrigerator or freezer to avoid either damaging the refrigerant tubing, or increasing the risk of a leak

L'opération, le mouvement et l'utilisation du réfrigérant ou le congélateur doivent éviter les dommages du tuyau réfrigérant ou le risque de la fuite.

Caution – Risk of Fire or Explosion due to Flammable Refrigerant Used. Follow Handling Instructions Carefully in Compliance with U.S. Government Regulations.

Component parts shall be replaced with like components and that servicing shall be done by factory authorized service personnel, so as to minimize the risk of possible ignition due to incorrect parts or improper service.

Les pièces de rechange doivent être remplacées par les composants relatifs et les opérations doivent être faites par les professionnels afin de minimaliser le risque d'allumage à cause des parts incorrects ou des opérations impropres.

CAUTION – Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used

DANGER: Risk of child entrapment. Before you throw away your old refrigerator or freezer:

Take off the doors

Leave the shelves in place so that children may not easily climb inside

CONGRATULATIONS ON YOUR NEW COOLER

Note these instructions apply to all coolers. Installations of equipment may not exactly correspond to your model.

INSTALLATION

Make sure that the cooler is not damaged on arrival. Your supplier must be notified of any transport damage, within 24 hours of delivery.

The cooler should be placed in a warm, dry room, with suitable ventilation.

Place the cooler in such a way, as to allow the free circulation of air around it. That is, with at least 100mm space all around it.

Never place the cooler in strong sunlight. The cooler be placed on a level surface. Make sure that it does not rock.

If the cooler has been stored or transported cold, it must not be started before the compressor is judged to have reached a temperature at least 41°F. It is recommended to clean up the cooler before starting it.

ELECTRICAL CONNECTION

The cooler must be connected to a socket with the correct voltage/frequency, as show on the nameplate. The standard for u.s is 115V/50HZ. Voltage variations of $\pm 10\%$ are acceptable. Greater variations can damage the cooler, and in such cases the factory warranty is not valid. In the case of extreme voltage variation, above or below the standard, your local supplier will be able to advise you, what to do.

The cooler requires extra protection according to the Danish Heavy Current Regulations.

This also applies, if a new cooler is replaced, which did not have such protection. The purpose of extra protection, is to protect the user from dangerous electric shocks, in the case of defect.

OPERATION INSTRUCTIONS

The temperature in the cooler is automatically regulated by a pre adjusted thermostat.

The position of the cooler, the ambient temperature, the number of times the lid is opened and for how long the lid is opened, all these factors affect the temperature in the cooler, which should therefore not be placed in sunlight or closed to a heat-radiating surface.

If your cooler is fitted with a lock, the key should be kept out of the reach of children. If your new cooler is to replace an older one, which is not in use any more, you should remove the lock mechanism, on the old one, before disposing it.

STORAGE OFF FOOD STUFFS

The cooler is only designed as a conserver, and is not suited to cold freeze foodstuffs. In other words, only refrozen food must be placed in the cooler. Next to that the cooler must not be filled beyond the height limit of the contents line, or in cases where there is no such line, to within 100mm below the lid. This is to ensure the product temperature less than 36°F.

DEFROSTING THE CABINET

In the course of time, a frost layer will be naturally formed within the cooler.

When this layer is 5-8mm thick, the cabinet should be defrosted the following way:

- remove the plug from the socket;
- open the lid and leave it open;
- loosen the frost layer using a plastic or wooden scraper.

The defrosting process can be speeded up by using bowls of hot water.

Never use sharp or pointed instruments

After final defrosting, the cabinet should be cleaned as described in section: Maintenance. the cabinet should be thoroughly dried after cleaning.

OPERATION



CAUTION

Do not throw items into the storage area. Failure to heed these recommendations could result in damage to the interior of the cabinet.

Refrigerated cycle

Refrigerators: During the refrigeration cycle, the evaporator fans will run continuously even when one or more doors are open. The door switch will activate the lights when opened.

1. Anti-condensation heaters on door frames work in conjunction with the compressor.
2. The factory setting for the temperature range is 34°F to 38° F.

SOLID-STATE THERMOSTAT DESCRIPTIONS

1. FRONT PANEL COMMANDS



SET: To display target set point; in programming mode it selects a parameter or confirms an operation.

- (DEF)** To start a manual defrost
- (UP)** To view the latest alarm occurrence; in programming mode it browses the parameter codes or increases the display value
- (DOWN)** To view the latest alarm occurrence; in programming mode it browses the parameter codes or decreases the display value

KEY COMBINATION

- + To lock & unlock the keyboard
- SET** + To enter in programming mode
- SET** + To return to the room temperature display

1.1 Function of LEDS

LED	MODE	FUNCTION
	ON	Compressor enabled
	Flashing	-Programming Phase (flashing with) - Anti-short cycle delay enabled
	ON	Defrost enabled
	Flashing	- Programming Phase (flashing with) - Drip time in progress
	ON	An temperature alarm happened

2. MAIN FUNCTIONS

2.1 HOW TO SEE THE SETPOINT

1. Push and immediately release the **SET** key: the display will show the set point value.
2. Push and immediately release the **SET** key or wait for 5 seconds to display the sensor value again.



2.2 HOW TO CHANGE THE SETPOINT

1. Hold the **SET** key for more than 2 seconds to change the set point value.
2. The value of the set point will be displayed and the LED starts blinking.
3. To change the set value push the or key within 10s.
4. To set a new point value, push the SET key again or wait 10s.

2.3 HOW TO START A MANUAL DEFFROST

Hold the key for more than 2 seconds and the manual defrost will start



2.4 HOW TO LOCK THE KEYBOARD

1. Hold the and keys for more than 3s.
2. The "POF" message will be displayed and the keyboard will be locked. At this point, it will be possible only to see the set point or the MAX or Min temperature stored.
3. If a key is pressed more than 3s the "POF" message will be displayed.



2.5 HOW TO UNLOCK THE KEYBOARD

Hold the and keys together for more than 3s, till the "POF" message is displayed.

3. ALARM SIGNALS

HOW TO SEE THE ALARM AND RESET THE RECORDED ALARM

1. Hold the or key to display the alarm signals.
2. When the signal is displayed, hold the **SET** key until the "rst" message is displayed, and push the **SET** key again. The "rst" message starts blinking and the normal temperature will be displayed.

Message	Cause	Outputs
"P1"	Room probe failure	Compressor output according to par. "Con" and "COF"
"P2"	Evaporator probe failure	Defrost end is timed
"HA"	Maximum temperature alarm	Outputs unchanged.
"LA"	Minimum temperature alarm	Outputs unchanged.
"dA"	Door open	Regulation restarts
"EA"	External alarm	Output unchanged.
"CA"	Serious external alarm (i1F=bAL)	All outputs OFF.
"CA"	Pressure switch alarm (i1F=PAL)	All outputs OFF