



# SELF-CONTAINED ICE MAKERS

installation use and  
servicemanual



APPLIES MODEL  
**DLX-40 - 60 - 90**

Intelligent, Smart multifunction  
Ice technology

All right reserved by DELUX

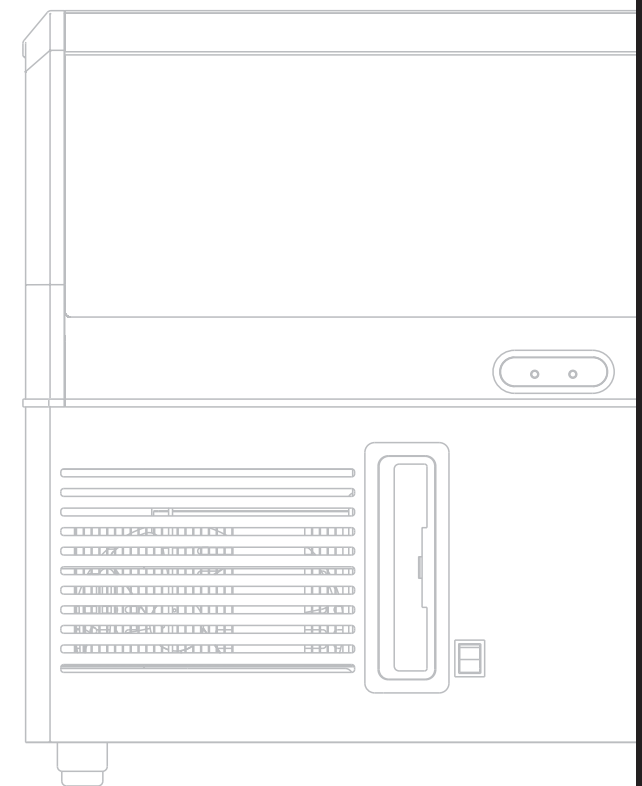
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## CUBE ICE MAKER

ice is always there  
where or when you need

## PART I WARNING

\*Please read the following instruction before operating the machine:

- A** Proper installation, use and maintenance of this machine are all important for maintaining production and personnel safety. In order to reduce the failure rate, please read the instructions carefully. Improper use could result in equipment damage, personal injury or even death.
- B** Do not use the ice maker if you have not been trained.
- C** Do not let children play with the ice maker or its packaging materials.
- D** At least two people are required to lift the ice maker or it is recommended that a lifting device is used.
- E** A qualified and competent person must perform the installation and ongoing maintenance.
- F** When operating, all procedures must be followed to ensure no damage occurs to the cooling system.
- G** Do not operate the ice maker if there is any unauthorised changes to the original specifications of the machine, or if the machine is misused, abused or neglected.
- H** Ensure the ice maker's front panel and cover are in place before turning this machine on.
- I** Do not cover the ice-maker's vents, there must be at least 15 cm clearance around the ice maker at all times during operation.
- J** Do not store flammable gases or liquids near the ice maker.
- K** Do not use high-pressure water cleaning devices to clean the ice maker.
- L** It is the user's responsibility to take appropriate precautions to ensure the safety of staff using and for the ongoing maintenance of the ice maker.
- M** To prevent accidental injuries, keep the area clean and tidy.

## PART II INSTALLATION

### IMPORTANT

- 1 The manual is an integrated part of the product and should be kept and preserved by the users for future reference. Please read the instructions carefully for correct installation method, safety warnings and maintenance information of the product.
- 2 This ice maker is designed for commercial use and should be used for purpose for which it has been expressly designed. Any other use should be considered improper and therefore dangerous. The manufacturer will not be liable or responsible for any damage caused by improper, incorrect and unreasonable use.

### I. INSTALLATION

#### Warning

The installation must be carried out by qualified personnel, in accordance with current regulations, and as per the manufacturer's instructions.

#### 1. UNPACKING

#### Warning

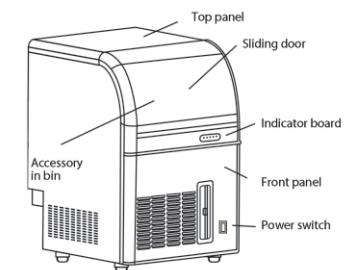
Keep the packing material out of reach of

children, (such as plastic bag, polystyrene, etc.)

#### Attention

- 1 Remove shipping carton, tape and packing. If packing material is left in the ice maker, it will not work properly.
- 2 After removing the packing, make sure the ice maker is in good condition. If in doubt, please do not use the ice maker but please give a call to either the seller or Delux for advice.
- 3 Remove shipping tape which is holding the door and front panel.
- 4 Remove the protective plastic film from the exterior. If the ice maker is exposed to the sun or heat, remove the film after ice maker cools down.
- 5 Remove the package of accessories, and check the content:

- a Inlet water tube      b Ice shovel
- c Foot base              d Drain tube
- e Plastic connector



**2. LOCATION**

- 1 This ice maker is not intended for outdoor use. Normal operating ambient temperature should be within 7°C to 40°C, Normal operating water temperature should be within 7°C to 35°C. Operation of ice maker for extended periods, outside of these normal temperature ranges, may affect ice production capacity and performance..
- 2 Ensure that free flow of clean air is available around the ice maker
- 3 The ice maker should not be located close to the heat source or exposed to the sun
- 4 Location should provide a firm and level foundation for the ice maker.
- 5 Allow 15cm clearance at rear and sides for proper air circulation and ease of maintenance.
- 6 This ice maker is not suitable for installation in an area where a water jet could be used and where water dripping is not allowed.
- 7 The ice maker will too low. To prevent damage to the water supply line, please drain the ice maker when ambient temperature is too low.

**3. LEVEL ADJUSTMENT OF ICE MAKER**

- 1 The level adjustment affects the ice size.

**! WARNING**

If the power supply cord is damaged, don't operate the machine until it is replaced by the authorized service agent or qualified technician.

**! CAUTIONS**

Please take protective measures when the ambient temperature is below 7°C. Faults due to the ambient temperature below 7°C are not covered by warranty.

- 2 Place a level measurement at the machine top, adjust the machine base for front & rear, left & right balance.

**4. ELECTRICAL CONNECTION**

**! WARNING**

All wiring must conform to local, state and national regulations.

- 1 This ice maker must be plugged into an independent power source, or an electrical socket of voltage at specified range
- 2 This ice maker must be connected with an independent fuse/ circuit breaker.

**Total current load flow capacity**

Total current capacity index is used for power

cord specification selection.

Power cord specification (or #) is determined by installation location, material, power cord length etc. This should be confirmed by qualified technicians.

**Electrical specification**

Ice Maker	Voltage, phase, frequency	Circuit breaker/fuse max. capacity	Total current
DLX-40	240V/50HZ	15	2.5A
DLX-60	240V/50HZ	15	2.9A
DLX-90	240V/50HZ	15	4.2A

**5. Water supply and Drain connection**

- \* Check if there is a need to install water treatment & filter system based on the local water situation. This can avoid the formation of precipitates, filter impurities and remove the smell of bleach.
- \* Water supply pressure should be minimum 0.14Mpa and maximum 0.55Mpa. If the pressure exceed 0.55Mpa use a pressure reducing valve. Do NOT bent the supply tap.
- \* A plumbing permit and service of a licensed plumber may be required in some area.
- \* Water should drain into an open trap.

\* Ice maker drain is gravity flow. Please ensure drain pipe has an adequate pitch or fall.

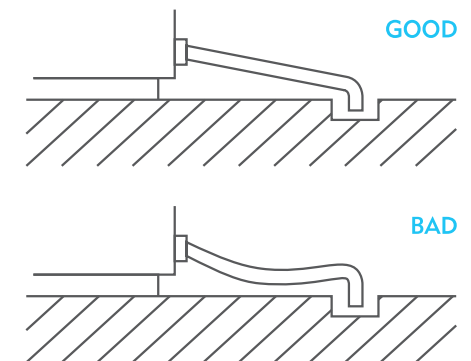
**! WARNING**

Piping installation must conform to relevant regulations.

**! WARNING**

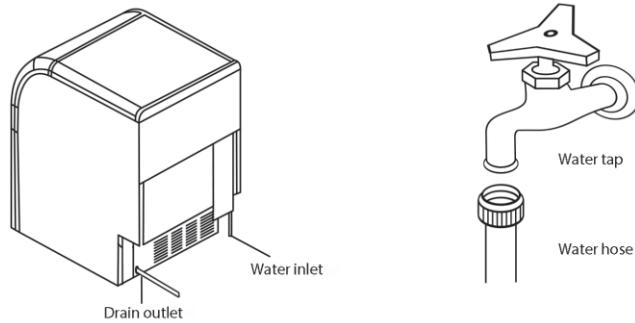
The machine must be plugged into a properly grounded outlet, and electricity supply as per rating plate.

\* To prevent a backflow into machine, please refer to image 1 for installing water drain pipe.



- 1 Attach the free end of inlet hose to the water supply tap (see image 4). Hand tighten sufficiently to provide leak free joint. It is advisable to have the stop valve within easy reach.

2 Hand tighten flexible water hose onto the fitting on the rear of ice maker as indicated (see image3), confirm whether the sealing ring has been tightened in the right position to avoid leaking at joints. The pipe can be cut to length as necessary to suit position of main drain. To prevent water leaks, secure



Part	Water temperature	Water pressure	Connector size of ice maker	Drainpipe size
Water inlet tube	minimum 7°C maximum 35°C	minimum 0.14Mpa maximum 0.55 Mpa	2M * one end is 3/4 internal thread connector, the other end is quick connector	1.5M*Ø12mm Corrugated Bellow Tube
Water inlet tube	minimum 7°C maximum 35°C	minimum 0.14Mpa maximum 0.55 Mpa	2M * 3/4 internal thread connector both side	1.5M*Ø12mm Corrugated Bellow Tube

**BEFORE ICE MACHINE START**

All ice machines' adjustment have been factory pre-set before shipment.

Adjustment to program or setting is not required for new ice machine installation.

In order to make sure that ice machine operate normally, please refer to part III of service manual. Checking and monitoring of Ice machine operation is the responsibility of users.

**PRE-INSTALLATION CHECKLIST**

- Is ice machine installed on a horizontal

leveled surface?

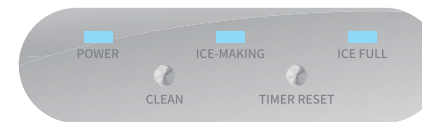
- Is ice machine water pipe installed correctly?
- Have all inner packaging and accessories been removed?
- Is water supply, drain and electricity connected properly?
- Is power supply voltage matching with the specified voltage on rating plate?
- Have users/operator filled in the warranty card?

- Is there proper ventilation around ice maker for good airflow?
- Is ice machine located at ambient temperature between 7°Cto 40°C?
- Is the inlet water temperature between7°C to 35°C?
- Is ice machine and storage bin disinfected?
- Has the user / operator read this Use and Service Manual
- Is ice machine earthed correctly?
- Is power switched on?

## PART III OPERATION INSTRUCTION

### CONTROL PANEL

They are three indicator lights and two key on the front control panel. The lights is for providing status information of the machine. The left key is for manual water clean function, the other key is for timer reset of air filter routine maintenance alarms for cleaning."

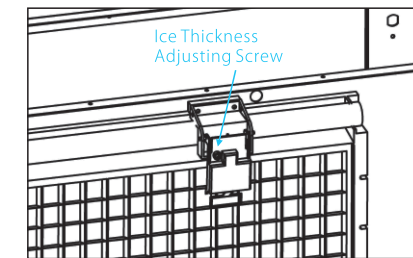


Running Status	Power Light	Ice-making Light	Ice full Light
Cleaning	ON	OFF	OFF
Ice making	ON	ON	OFF
Ice full	OFF	OFF	ON

Error Status	Power Light	Ice-making Light	Ice-making Light
Condenser sensor error	*	*	Flashing
Evaporator sensor error	*	Flashing	*
Water shortage	Flashing	*	*

### ICE THICKNESS ADJUSTMENT :

Observe the first ice cube harvest and check size of the ice cubes; if an adjustment is necessary, turn the adjustment screw clockwise to increase ice thickness, counterclockwise to decrease ice thickness. Every 1/3 circle turn will increase or decrease 1.5mm as shown in the illustration below.



**Notice:** The screw position of ice thickness sensor determines the distance between the sensor reeds and evaporator plate. Delux standard gap space should be in the range of 4mm-7mm, please keep gap space properly.

**Caution:** Do not adjust the gap out of the factory required standard. Improper adjustment is not covered by warranty.

## I. Warning

1. This ice maker produces and stocks ice for use. To keep the ice maker clean and sanitary, the requirements are as follows:

- \* Wash your hands before taking ice and use special ice shovel.
- \* The ice maker is only used for production and storage of ice, do not store any other items in it.
- \* The ice storage bin should be cleaned before use.
- \* Keep the ice shovel clean. Please wash the ice shovel with neutral detergent and clean water.
- \* Close the sliding door of ice storage bin after taking the ice, to prevent dirt and dust from getting into the ice storage bin.

2. Please follow the basic principles while using any electrical device, Points to note:

- \* High humidity will increase the electrical circuit and potential risk of electric shock. If any doubt, please disconnect the ice maker from electrical power.
- \* Don't pull the power cord vigorously.
- \* The ice maker is not suitable for use by unattended children, the elderly or disabled.

3. After shutting off the ice maker, you should wait at least 3 minutes before restart, in order to avoid any damage to the compressor.

### 1. Ice maker start up

Ice maker has been a pre-set 3 minutes cleaning programme which starts automatically after machine is switched on.

After cleaning programme, it switches over to ice making mode automatically.

### 2. Ice maker processing

The water pump of ice maker will start work after water level reaches the position of high water position switch. When water level reaches low water position switch, the ice making program will start.

### 3. Ice drop processing

Heated refrigerant flows into evaporator which raises the temperature of the evaporator, which causes the ice drop in storage bin. When evaporator temperature reaches 25°C, the ice drop process will finish and next ice making cycle will start.

### 4. Ice full

When Ice bin is full, ice level switch will switch off the ice maker and Ice Full indicator light will be ON

When the ice level drops, the ice full switch will reset and ice maker will restart.

### 5. To make sure the continuous running of the ice maker, please check the following steps:

- \* Water supply is connected and faucet is open.
- \* Ice maker has been connected to the electrical socket and machine switch on.
- \* Ice making" indicator is lighting on

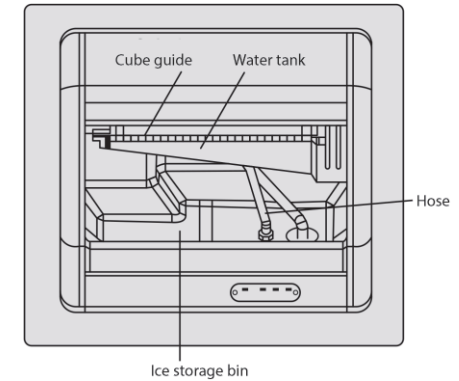
## II. Long term storage of ice maker

- 1 Turn control switch to "off" position
- 2 Unplug the power cord or power off the machine
- 3 Turn off the water supply and remove the

water inlet pipe.

4 Remove all ice out of the storage bin and cleaning the machine.

5 Disconnect the silicone hose, to discharge water from water tank. After water drains out, reconnect the silicone hose to the correct position.



## III. Machine Specifications

Model	Ice making (KG/24h)	Storage (KG)	Power(W)	Voltage Frequency	Dimension (mm) W*D*H
DLX-40	45/43	13	360/380	240V/50Hz	505x656x845
DLX-60	62/56	22	400/420	240V/50Hz	610x656x960
DLX-90	102/94	34	740/760	240V/50Hz	715x656x960

# PART IV OPERATION INSTRUCTION

## Warning

1. Disconnect electrical power before performing any cleaning or maintenance.
2. Inspection and cleaning the condenser should be done only by a qualified service

technician; at least once every year.

3. Don't clean the ice maker by spraying water.
4. To prevent cracks to the plastic part of ice maker, do not use any alcohol or

disinfecting -type cleaners.

5. Do not remove the top cover or the heat partition without authorization. Removal should be performed only by qualified service technicians.

#### 6. External

Clean the ice maker exterior by wiping with a clean soft cloth, at least once a week. Use damp cloth with neutral detergent to wipe off grease and dust.

#### 2. Clean and disinfect the sliding door handle of ice maker and ice shovel (every day)

1) Fill suitable container with 3L water and 11ml sodium hypochlorite solution with concentration ratio of 5.25%, or use the special cleaning fluid.

2) Immerse ice shovel into the solution for at least 3 minutes, rinse thoroughly with water, and shake off excess water.

**Note: Cloth containing cleaning solution may cause contamination if not disposed correctly**

3) Clean sliding door handle of ice storage bin with a mild detergent, rinse thoroughly with water.

4) Wipe the machine with a clean cloth

soaked in cleaning solution. After rinsing with water, dry it with a clean cloth.

#### 3. Clean and disinfect the ice storage bin (every week)

1) Open the ice storage bin's sliding door, take out all the ice.

2) Clean ice storage bin by using neutral detergent which does not contain any fine particles, and then rinse thoroughly with clean water.

3) Use a clean cloth, soaked in neutral detergent to wipe inside door surface, wipe away the detergent with a clean cloth.

4) Fill suitable container with 3 qt water and 2¼ tsp sodium hypo chlorite solution with concentration ratio of 5.25%, or use the special cleaning fluid.

5) Immerse a clean sponge or cloth into the solution, then wipe the inside of ice storage bin and its sliding door.

6) Rinse thoroughly, then wipe away the solution completely with a clean cloth. Close the sliding door of ice storage bin.

**Note: Some solutions may cause damage or corrosion to metal parts of the ice maker inside surface.**

All the solution should be rinsed away

thoroughly, unless there are additional instructions from the manufacturer or local distributors.

#### 4. Air filter

The ice maker air filter prevents ash and dust in the air from clogging the condenser. An air filter blockage will reduce the ice making capacity.

Remove and clean air filter at least twice a month.

1) Remove the air filter.

**Note: Do not put hands into the interior of machine.**

2) Clean the air filter by vacuum. If serious blockage of air filter occurs, clean the filter with neutral detergent and warm water.

3) Wash and dry air filter, then re-install to the correct location.

#### 5. Ice maker's water system

In order to keep the ice machine clean, we recommend regular cleaning of ice maker's water system, although this machine has automatic cleaning function.

Please have water system cleaned by professional service staff.

#### 6. Out of service/ winter maintenance

1) Clean and disinfect the appliance

2) Switch off power

3) Cut off water supply, drain off water inside. Disassemble the water inlet pipe at the back of appliance and drain off the water.

4) Spray disinfect detergent on the inside surface which is in contact with ice. Leave it until dry, no need to clean after spaying.

# PART V

## BEFORE CALL FOR SERVICE

Trouble shooting: If a problem arise during operation of your machine, please follow the table below before calling service.

Symptom	Possible Cause	Suggested Correction
Ice maker does not run	No electrical power or Fuse is blown	Replace the fuse & Turn switch to ON position
	Switch on OFF position	Turn switch to ON position, ensure "ice making" indicator light is on
Ice maker turns off	Safety limited action, make the machine stop running.	Restart the switch after inspection of the electrical circuit.
Doesn't make ice or make ice slowly	Dirty ice maker	Clean and disinfect the ice maker
	Locate out of horizontal leveled position	Locate ice maker in a horizontal leveled position
	Low ambient temperature	The ambient temperature cannot be lower than 7°C
	Dirty filter	Replace the filter
"Power" indicator flashing (No water inlet)	Water valve is closed	Open water valve
Ice dropping failed	Ice dropping float ball switch is blocked	Make sure the float ball witch is at correct position
"Ice full" indicator flashing	Condenser sensor error	Replace the condenser sensor
"Ice making" indicator flashing	Evaporator sensor error	Replace the evaporator sensor
Ice cube quality is bad (Soft or Dirty)	Dirty water supply	Contact qualified service agent for water quality checking
	Dirty water filter	Change the filter
	Dirty ice maker	Clean and disinfect the ice maker
	Drain water valve or pipe error	Repair water drain valve or pipe

Ice is thin, or makes deformed ice on the evaporation	Dirty water filter	Replace the filter
	Water spray& flow board dirty& blockage	Clean water spray &flow board
	Locate out of horizontal leveled position	Locate ice maker in a horizontal leveled position.
	Water loss from water sink	Check status of water drain valve whether is leaking
Decreased Ice capacity	Dirty water filter	Change the filter
	Dirty condenser	Clean the condenser
	High Ambient temperature	The ambient temperature cannot be over 40°C
	Insufficient space around ice maker	Ensure enough space for ice maker
	Too much debris around ice maker	Clear the area around ice maker

**Note:** Safety protection is set in ice maker, please restart ice maker when there is error. If error is not solved, please contact authorized agent or repair service.

### Before call for service

If the ice maker is not working or not working correctly, before calling for service, please check the following:

\* Check to be sure the ice maker is plugged into electrical socket correctly and switch on.

\* Check if the Ice making light on the control panel is ON

\* Check to be sure water supplier is turned on

\* Make sure air filter is clean.

Please contact an authorized service center near you for further service or help.