

B Plus



104323

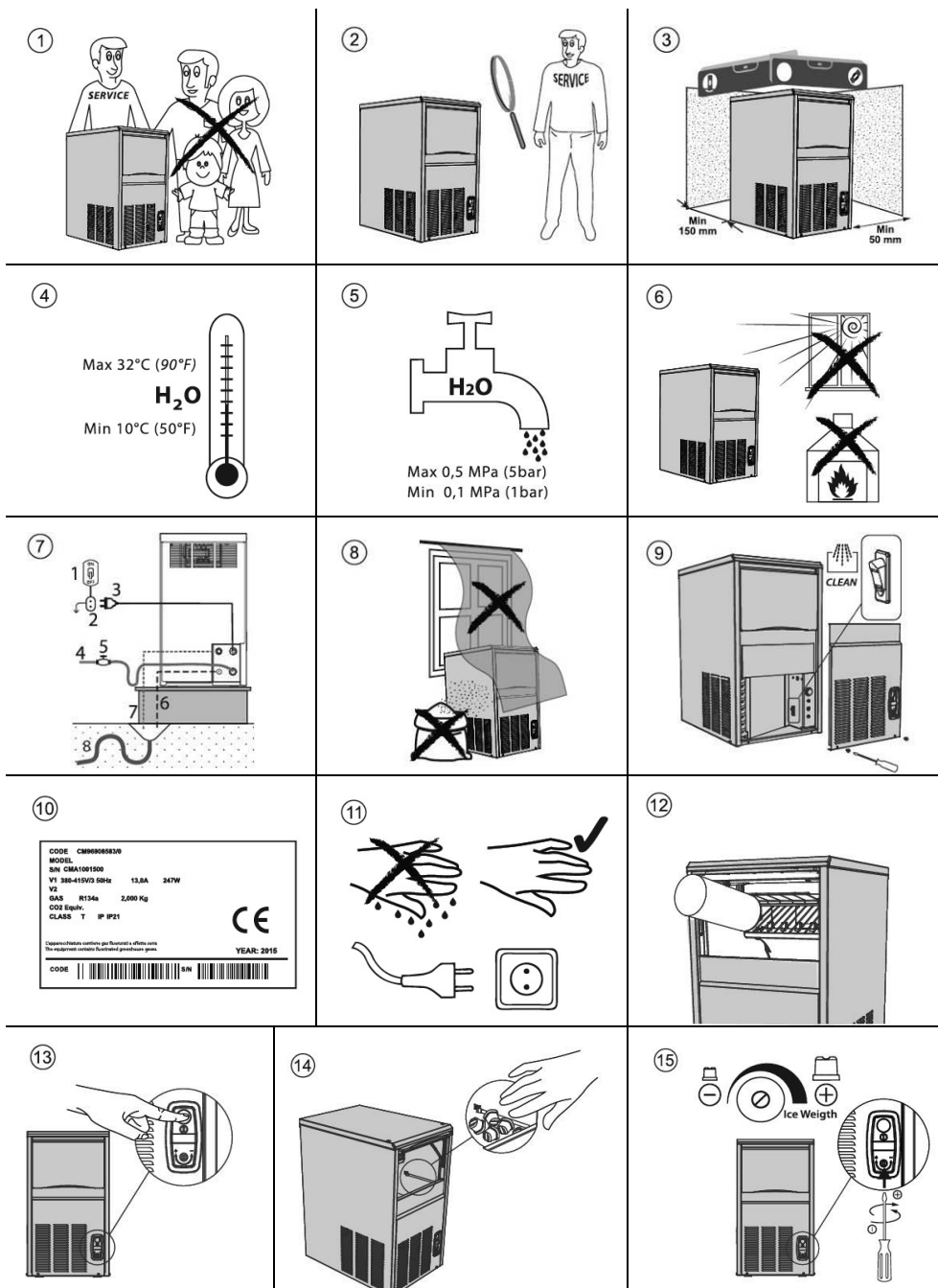
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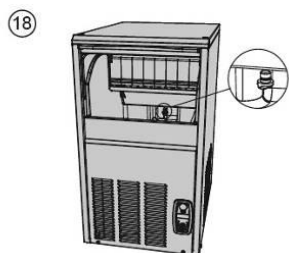
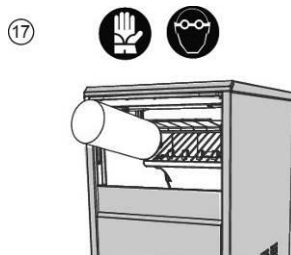
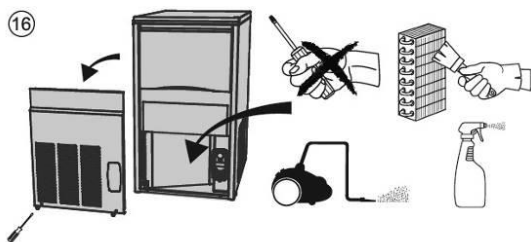
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Abbildungen / Drawings / Dessins / Figure / Figuras / Afbeeldingen / Rysunki





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Read this instruction manual before using and keep them available at all times!

This instruction manual contains information about the installation, operation and maintenance of the device and should be consulted as an important source of information and reference guide.

Awareness of the safety instructions and instructions for use in this manual will ensure the safe and correct use of the device.

In addition to the information given here, you should comply with any local Health and safety Controls and generally applicable safety regulations.

The instruction manual forms part of the product and should be kept near the device and easily accessible for anyone carrying out the installation, servicing, maintenance or cleaning.

Please keep these instructions and give them to future owners of the device.

1. Safety

This device is designed in accordance with the presently applicable technological standards. However, the device can pose a danger if handled improperly and inappropriately.

All persons using the device must follow the recommendations and instructions in this instruction manual.

1.1 Key to symbols

In this manual, symbols are used to highlight important safety instructions and any advice relating to the device. The instructions should be followed very carefully to avoid any risk of accident, personal injury or material damage.



WARNING!

This symbol highlights hazards which could lead to injury.



WARNING!

This symbol highlights dangerous situations which could lead to injury or death.



FIRE HAZARD / FLAMMABLE MATERIALS HAZARD / EXPLOSION HAZARD!

This symbol highlights potentially dangerous situations which could lead to injury or death.



CAUTION!

This symbol highlights dangerous situations which could lead to light injuries, or damage, malfunction, and/or destruction of the device.



NOTE!

This symbol highlights recommendations and information aimed for effective and trouble-free device operation.

1.2 Safety instructions

- The device contains the fluorinated greenhouse gases, which are subject to the regulations of the Kyoto Protocol, in the quantities indicated on the rating plate. Type of cooling gas in the coolant circuit is indicated on the rating plate (Fig. 10). The Global Warming Potential (GWP) of HFC R134a gas amounts to 1430, whereas for HFC R404A gas it equals to 3922. The rating plate (Fig. 10) presents data related to CO₂. According to the Regulation (EC) 1272/2008, as regards R134a and R404A gases, this applies to non-flammable and non-toxic gases. In high concentration, they may cause suffocation. Contact with fluid may cause burns and frostbites. The gas contained in the device is pressurised. If heated, it may explode.

- The device can be used by children 8 years and up, as well as by people with disabilities and those with limited experience/ knowledge as long as they are under supervision or have been instructed on proper use of the device and its possible dangers. Cleaning and maintenance may not be performed by children. Please keep young children away from the device and power supply cable.
- Children should be observed to ensure that they are not playing with or starting the device.
- Prevent access of children to the package materials like plastic bags and foamed polystyrene elements. **Suffocation hazard!**
- The device is for indoor use only.
- The device must be operated in correct and safe technical condition only. In case of operational problems disconnect the device from the power supply (pull the plug from the socket) and contact the service company.
- Only a qualified technician and using original spare parts and accessories should carry out repairs and maintenance of the device. **Do not attempt to repair the device yourself.**
- Do not use any accessory or spare parts that have not been recommended by the manufacturer. These can be dangerous for the user or lead to damages of the device or personal injury, and further, the warranty expires.
- To prevent hazards and to ensure optimum efficiency, no modifications or alterations to the device that are not explicitly approved by the manufacturer may be undertaken.



DANGER! Electric shock hazard!

To avoid the hazard results please follow the safety instructions below.

- Never allow the power cable to come into contact with heat sources or sharp edges. The power cable should not hang over the side of the working surface. Ensure that no one can step on or trip over the cable.
- The power cable must not be folded, bent or tangled, and must always remain fully unrolled. Never place the device or other objects on the power cable.
- Do not cover the cable. Keep away the cable from operating range and do not immerse it into water.
- Check the power cord regularly for damage. Do not use the device if the power cord is damaged. If this cable is damaged, it must be replaced by customer service or a qualified electrician in order to avoid dangers.
- The supply cable must be disconnected from the socket only by pulling the plug.
- Never carry or lift the device by the supply cable.
- In any case do not open the device housing. In case of electrical or mechanical modifications the **electric shock hazard** will occur.
- Do not use any acid agents and make sure no water ingresses the device.

- **Never** operate the device with moist hands or standing on wet floor.
- Remove the plug from its socket:
 - when the device is not used,
 - in case of anomalies during operation,
 - before cleaning.



FIRE HAZARD / FLAMMABLE MATERIALS HAZARD / EXPLOSION HAZARD!

Incorrect operation of the device may cause fire or explosion hazard due to ignition of its content.

To avoid the hazard please follow the safety instructions below:

- Do not use any electric devices in the device.
- **Never** use any flammable liquids for cleaning the device or its parts. Gases releasing during above activities may cause fire or explosion hazard.
- Do not store or use petrol or other flammable liquids and gases in the vicinity of this or any other device. Those gases may cause fire or explosion hazard.
- Do not store any explosive materials inside the device, such as aerosols filled with flammable material.
- The cooling system in the device may be damaged.

1.3 Proper use

The operational safety of the device is assured only in case of proper use, according to the operation manual.

All technical activities like installation and maintenance must be performed by the qualified service personnel only.

The device is intended for home use or in similar places such as:

- in kitchens for store or office employees or in similar business areas;
- in agricultural farms;
- by guests of hotels, motels and other typical places of accomodation;
- in Bed and Breakfast facilities.

The Ice-cube maker is intended **only** for **production of ice cubes**.



CAUTION!

Any use going beyond the intended purpose and/or any different use of the device is forbidden and is not considered as conventional.

Any claims against the manufacturer or his authorized representative as a consequence of experiencing damages resulting from unconventional use are impossible.

The operator is liable for all damages resulting from inappropriate use.

2. General information

2.1 Liability and Warrantees

All the information and instructions in this manual take into account standard safety regulations, current levels of technical engineering as well as the expertise and experience we have developed over the years.

The instruction manual was translated with all due care and attention. However, we do not accept liability for any translation errors. The German version of this instruction manual is definitive.

If the delivery consists of a special model, the actual scope of delivery may differ from the descriptions and illustrations in this manual. This is also the case for special orders or when the device has been modified in line with new technology.



CAUTION!

Read this manual carefully and thoroughly before any operation of the device, and especially before turning it on!

Manufacturer **is not liable** for any damages or faults caused by:

- violation of advice concerning operation and cleaning;
- use other than designed;
- alterations made by user;
- use of inadequate spare parts.

We reserve the right to make technical changes for purposes of developing and improving the useful properties.

2.2 Copyright protection

The instruction manual including any texts, drawings, images or other illustrations is copyright. No part of this publication may be reproduced, transmitted or used in any form or by any means without permission in writing from the manufacturer. Any person who commits any unauthorized act in relation to this publication shall be liable to claims for damages. All rights reserved.



NOTE!

The contents, texts, drawings, pictures and any other illustrations are copyright and subject to other protection rights. Any person unlawfully using this publication is liable to criminal prosecution.

2.3 Declaration of conformity



The device complies with the current standards and directives of the EU. We certify this in the EC declaration of conformity. If required we will be glad to send you the according declaration of conformity.

3. Transport, package, storage

3.1 Delivery check

Please check the delivery upon completeness and transport damage immediately after receipt. In case of visible damage do not accept or accept the delivery with reservation only.

Note the extent of damage on the carrier's bill of delivery. Trigger off the complaint.

Hidden damages should be reclaimed immediately after notice, as claims for damages can only be asserted within the effective period for complaints.

3.2 Packaging

Please do not throw away the covering carton of your device as it might be useful for storage purposes, when moving or, in case of damages, when the device must be sent back to a repair center. The outer and inner packing material should be removed completely from the device before installation.



Durante la recuperación del embalaje hay que cumplir los reglamentos vigentes del país dado. Los materiales de empaque con propiedades de reuso hay que reciclarlos.

Please inspect the device upon completeness. In case any part is missing please contact our customer service center immediately.

3.3 Storage

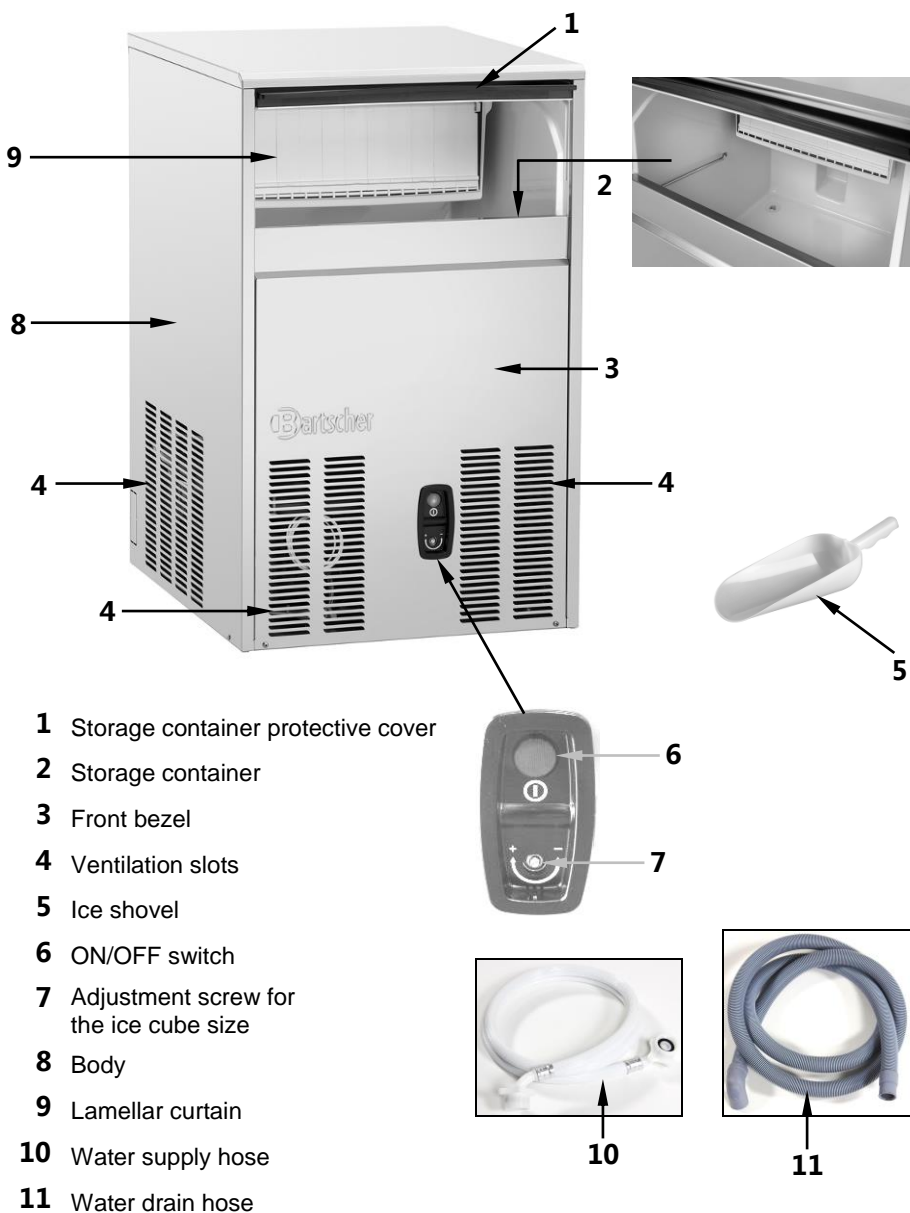
Keep the package closed until installation and under consideration of the outside indicated positioning- and storage markings.

Packages should be stored under consideration of the following:

- do not store outdoors,
- keep it dry and dust-free,
- do not expose it to aggressive media,
- do not expose it to direct sunlight,
- avoid mechanical shocks and vibration,
- in case of longer storage (> 3 months) make sure you check the state of the packaging and the parts regularly, if required refresh or renew.

4. Technical data

4.1 Overview of parts



4.2 Technical specification

Features of Ice-cube maker B Plus series

- Material: Stainless steel, plastic, steel, galvanised
- Ice cube design: Cone-shaped (full cone)
- Ice cube size: 35 x 32 mm, 20 g
- Production by means of: Spray system
- Number of ice cube sizes: Stepless adjustment of the size
- Filling level sensor
- Cooling: Air cooled (distance of at least 15 cm from all sides cm)
- Cooling medium: R134a
- Climate class: T
- Water connection: 3/4"
- Water outlet: Ø 20 mm
- Can be fitted below the counter
- Control: electronic
- ON/OFF switch
- Indicator light: On/Off
- Selector switch for the ice cube size
- Cleaning function
- For permanent commercial use

Full cone-shaped ice cubes, spray system

How does the spray system work?

When making ice cubes with a spray system, the supplied water is sprayed to the evaporator system, here in a type of mould, using a pump. On contact with the evaporator element, the water freezes and a compact glass-clear full cone-shaped ice cube is created. Based on their solid state, they have a long cooling effect and are very suitable for cool enjoyment of long drinks etc. because they melt slowly and do not dilute the drinks as quickly.

Description	Ice-cube maker B 20 Plus
Code-No.:	104323
Production max.:	21 kg / 24 hours
Production / working cycle:	18 ice cubes
Storage container capacity:	6.5 kg
Water consumption / hour:	2.46 litres
Power supply:	0.265 kW / 220-240 V 50 Hz
Dimensions:	W 340 x D 480 x H 600 mm
Weight:	28.55 kg
Accessories:	1 x ice shovel, 1 x water supply hose, 1 x water drain hose

Description	Ice-cube maker B 40 Plus
Code-No.:	104338
Production max.:	41 kg / 24 hours
Production / working cycle:	28 ice cubes
Storage container capacity:	15 kg
Water consumption / hour:	2.73 litres
Power supply:	0.59 kW / 220-240 V 50 Hz
Dimensions:	W 500 x D 540 x H 540 mm
Weight:	38.2 kg
Accessories:	1 x ice shovel, 1 x water supply hose, 1 x water drain hose

Description	Ice-cube maker B 50 Plus
Code-No.:	104348
Production max.:	52 kg / 24 hours
Production / working cycle:	36 ice cubes
Storage container capacity:	22 kg
Water consumption / hour:	4.6 litres
Power supply:	0.68 kW / 220-240 V 50 Hz
Dimensions:	W 500 x D 580 x H 800 mm
Weight:	42.6 kg
Accessories:	1 x ice shovel, 1 x water supply hose, 1 x water drain hose

Description	Ice-cube maker B 70 Plus
Code-No.:	104383
Production max.:	72 kg / 24 hours
Production / working cycle:	56 ice cubes
Storage container capacity:	42 kg
Water consumption / hour:	5.98 litres
Power supply:	0.88 kW / 220-240 V 50 Hz
Dimensions:	W 700 x D 581 x H 995 mm (height without feet: 910 mm)
Weight:	55.4 kg
Accessories:	1 x ice shovel, 1 x water supply hose, 1 x water drain hose

Description	Ice-cube maker B 90 Plus
Code-No.:	104393
Production max.:	89 kg / 24 hours
Production / working cycle:	56 ice cubes
Storage container capacity:	42 kg
Water consumption / hour:	7.45 litres
Power supply:	0.98 kW / 220-240 V 50 Hz
Dimensions:	W 700 x D 581 x H 995 mm (height without feet: 910 mm)
Weight:	63 kg
Accessories:	1 x ice shovel, 1 x water supply hose, 1 x water drain hose

We reserve the right to implement the technical modifications!

5. Service instructions



CAUTION!

Installation and connection of the device, as well as cleaning and maintenance can be performed only by the authorised and qualified technician in compliance with the applicable international, national and local law in the country of installation.

5.1 Place of installation

When selecting the place of installation, make sure that:

- ambient temperature in the room does not drop down below 10 °C and does not exceed 43 °C;
- water temperature is not below 10 °C and above 32 °C (90 °F) (Fig. 4);
- the pressure of the supplied water is not less than 0.1 MPa (1 bar) and does not exceed 0.5 MPa (5 bar). If the pressure exceeds 0.5 MPa (5 bar), it is necessary to install a pressure regulator on the water supply line (Fig. 5).
- there are no heat sources near the machine and the appropriate air ventilation is ensured (Fig. 6).

5.2 Preparation of the appliance

Before the first use read the following instructions:

1. Unpack the device and remove the packing material, according to the environmental regulations.
2. Inspect the device for possible damages during the transport (Fig. 2).
3. Take out all accessories (water supply hose, water drain hose, operating manual, ice shovel) from the storage container.
4. Clean the storage container with a soft cloth or sponge and warm water. Use baking soda for cleaning. Rinse with clean water and dry the storage container thoroughly.

5.3 Positioning of the device

- Put the device in the installation place and level it (Fig. 3).
- Place the device on hard, dry, flat and water and temperature resistant surface which will hold the weight of the device, also when it is filled in.
- **Never** place the device on a flammable surface.
- **Never** place the device near open fire, electric ovens, heating ovens or other heat sources, like direct sunlight. The heat may damage the surface of the device and also may affect the cooling performance and increase the power consumption.
- To avoid damaging the compressor never tilt the device more than 45° during placing or transport.
- Place the device so that sufficient air circulation is ensured. Keep the distance of at least 15 cm from the rear and 5 cm on the sides from walls and other objects.
- Place the device in the place, where the ventilation of the cooling unit is not restricted (Fig. 8).
- Do not place the device in dusty places, because the condenser of the cooling unit may get clogged very fast (Fig. 8).
- Do not place the device in places of high air humidity. Excessive humidity may damage the device. The optimum operating conditions of the device are ensured when the ambient temperature is within the range from 10 °C to 40 °C and the relative humidity at the installation place is 40 %.
- Before starting operation, remove the protective film from the appliance. Remove the film slowly in order not to leave the glue residues. Any glue residues may be removed with use of a suitable solvent.



CAUTION!

Never remove the rating plate and any warning signs from the device.

5.4 Water connection

- Connect the device to the drinking water supply before connecting the device to the power supply.
- Connect the water connection hose 3/4" to the device and to the drinking water connection.
- From practical point of view and for safety reasons, it is recommended that the appropriate shut-off valve is installed (Item 5, Fig. 7)

Instruction: a shut-off valve is not included in the delivery

- If the device is put in the place, where the drinking water has high salt content, the water softener should be connected to the system to limit the faults to the minimum.

5.5 Water drain connection

- Connect the supplied water drain hose to the device.
- To ensure proper draining of water, it is necessary to plan the tilting of drain hoses of at least 3%, whereas you need to make sure they are not bent or closed.
- Drain hoses must be connected to the open drain trap (Fig. 7).

5.6 Electrical connection



DANGER! Electric shock hazard!

**The device can cause injuries due to improper installation!
Before installation and connecting the local power grid
specification should be compared with that of the device
(see rating plate, Fig. 10).**

Connect the device only in case of compliance!

- Maximum permissible voltage tolerance should not exceed $\pm 10\%$ of the voltage nominal value.
- Place the device so that the socket and plug are available in case of a need to quickly disconnect the device from the power supply.

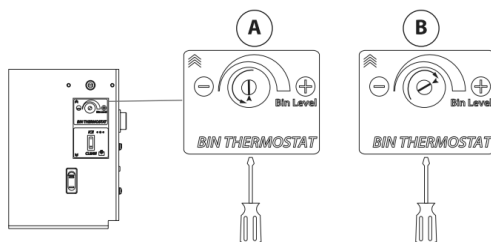
- The power supply circuit with the socket must be protected by the fuse of at least 16A. Connect the device only directly to a single, grounded socket: do not use any splitters or multiple sockets.
- If the ice-cube maker is brought from the outside in winter, leave it for a few hours to heat up and reach the room temperature before connecting it.
- Before connecting the device to the power supply, wait 2 hours for the coolant to stabilize.
- After the power supply failure or after pulling the plug of the device out of the socket, wait at least 5 minutes before connecting the device to the power supply again.

5.7 Settings

Setting of the storage container filling level

1. Switch the ice-cube maker off.
2. Remove the ice cubes from the storage container.
3. Remove the front bezel of the device.
4. Adjust the storage container filling level in the following way:

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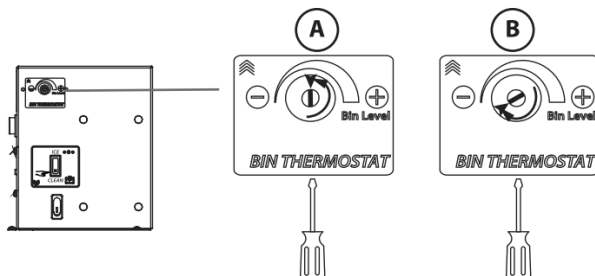
- A:** Turn the adjustment screw of the storage container thermostat left until stop
- B:** Turn the adjustment screw of the storage container thermostat to the "2 o'clock" position

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- A:** Turn the adjustment screw of the storage container thermostat left until stop
- B:** Turn the adjustment screw of the storage container thermostat to the "8 o'clock" position

5.8 Cleaning and maintenance



CAUTION!

Cleaning and maintenance of the device can be performed only by the qualified technicians.

Never use aggressive cleaning agents, such as scouring powders, alcohol-based substances, or solvents which may damage the surface of the device.

To clean the stainless steel, do not use iron wool or iron brush as they may leave iron particles on the surface that form rust in result of oxidation.

Condenser

- To maintain the efficiency of the ice-cube maker, the condenser should be regularly cleaned. The condenser is located on the front of the device behind the front bezel (Fig. 16).
- Do not use any brushes or blunt objects but a soft brush or vacuum cleaner.

Water supply filter

- Close the water supply shut-off valve.
- Unscrew the water supply hose from the device.
- Using the pliers, remove the filter from the socket on the inlet side of the water solenoid valve.
- Clean the filter under the stream of water and reattach it.
- Connect the water supply hose.

Cleaning and disinfecting cycle

- To avoid problems caused by water hardness leading to contamination of parts and components which come into contact with water, the ice-cube maker has a **"Self Cleaning" function**.
- Thanks to the cleaning properties of the citric acid this function allows for cleaning the device from limestone and contamination.
- To ensure appropriate cleaning of the ice-cube maker, it is recommended that this cleaning and disinfecting cycle should be performed at least 3 - 4 times a year (depending on the water hardness).



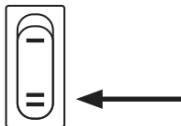
When using the citric acid (water + citric acid, see table) take necessary precautions, i.e. wear safety gloves and glasses.

Clean the device according to the following instructions:

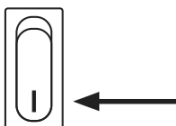
1. Switch the ice-cube maker off.
2. Remove the ice cubes from the storage container.
3. Prepare the solution of water and citric acid. Observe the quantity provided in the table below for various models.
4. Dissolve the recommended quantity of the citric acid in the form of powder in 1 litre of warm water (max. 40 °C).

Model	Quantity of the citric acid
20 kg	200 g
40 kg	250 g
50 kg	350 g
70 – 90 kg	500 g

5. Carefully mix the solution of water and citric acid and make sure there are no lumps.
6. Remove the front bezel to get access to the lever switch for cleaning program (Fig. 9).
7. For 20 kg models: Activate the cleaning program by switching the lever switch into position = ("CLEAN").



8. For 40 - 50 - 70 - 90 kg models: Activate the cleaning program by switching the lever switch into position I ("CLEAN").



9. Pour in the prepared solution of water and citric acid to the evaporator partition (Fig. 17).
10. Put the plug into the socket and wait at least 2 hours.
11. After two hours, switch the device off.
12. Remove the locking cover and drain the solution to the basin of the evaporator in the storage container (Fig. 18).
13. Reattach the closing cover in the appropriate position, pour in the same amount of clean water (basin capacity) to the evaporator partition and switch the device on.
14. Repeat this process at least 5 times to remove the residues of the descaling agent and disinfectant.
15. Switch the device off.
16. Remove the locking cover and drain the water from the evaporator's basin. Reattach the locking cover in the appropriate position.
17. Set the lever switch to "ICE" position.
18. After cleaning, rinse the storage container thoroughly.
19. Mount the front bezel on the device.

5.9 Possible defects

In case of malfunction, immediately disconnect the device from the water supply and power supply. Inspects possible reasons of defects based on the following cases:

1. Check whether the power supply is connected properly: the mains plug is connected to the socket and the device was switched on using the ON/OFF switch.
2. Check whether there are no untypical vibrations due to the loose screws.
3. In case of the loss of water or similar phenomena, always switch the ice-cube maker first and check whether the leakage was not caused by clogged drains.
4. In case of insufficient production of ice cubes, inspect whether the condenser and spray nozzles are clean.
5. Inspect the operation of a sensor in the storage container: After putting the ice cube close to the sensor inside the storage container, the ice-cube maker must stop working, and automatically continue working when the ice cube is removed.
6. In summer or winter, the maximum quantity of ice cubes in the storage container may vary; possible settings, see section **5.7 "Settings / Setting of the storage container filling level"**.

6. User instructions

Important tips

- During the use of the device never disconnect the water supply and never cover the air suction slots.
- During the normal use, do not leave the locking cover of the storage container open.
- Do not store bottles or similar objects in the storage container, to prevent ice cubes from taking unpleasant odours or taste.
- Never change settings or perform any work on the device which require opening of the cover or bezel and access to the condenser space; settings and repairs, as well as cleaning and maintenance may be performed only by qualified technicians.

6.1 Start-up



CAUTION!

Before the first use or after a long usage break after cleaning, manually fill in the evaporator's basin with water (Fig. 12). In order to do this, lift the storage container's cover, slide the protection and pour drinking water directly to the basin on the evaporator.

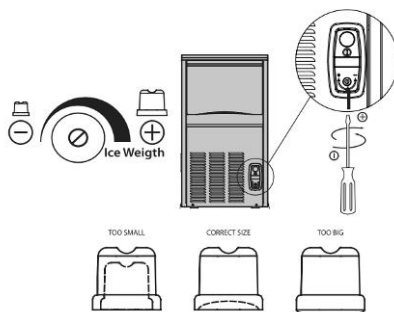
For subsequent ice cube production cycles the aforementioned activities are not required.

- Before the first use, inspect the water supply and power supply connections, if the connections are correct open the water supply tap and connect the mains plug to the socket.
- To start the device, press the ON/OFF switch on the front bezel of the device (Fig. 13).
Important: Do not use ice cubes produced during the first 5 cycles.
- The ice-cube maker is equipped with a sensor located in the storage container (Fig. 14), which stops the device and ice production when the storage container is full.
- **Tip:** After removing ice cubes, clean possible ice residues from the sensor to ensure faster starting of the production for another cycle (Fig. 14).

6.2 Settings

Size and weight of ice cubes

- With time, due to the change of the ambient temperature, the size and weight of ice cubes may vary.
- To set the size and weight, turn the adjustment screw located on the front below the switch (Fig. 15).
- Turn the adjustment screw clockwise to increase the weight of the ice cube, turn the adjustment screw counter clockwise to reduce the weight of the ice cube. This setting also corresponds to increasing or reducing the time of production of ice cubes.



6.3 Daily cleaning



WARNING!

Before cleaning disconnect the device from the power supply (pull the plug!).

The device is not suited for direct washing via water jets!

Protect the device from water penetration.



CAUTION!

Never use aggressive cleaning agents, such as scouring powders, alcohol-based substances, or solvents which may damage the surface of the device.

Never clean the stainless steel surfaces with steel wool or brush, as they may leave iron particles on the surface of the device, which may lead to rust due to oxidation.

Body

- Clean the device regularly.
- Clean the body with a cloth soaked with a special stainless steel cleaning agent (without chlorine).

Storage container

- Remove the ice cubes from the storage container.
- Clean the storage container with a sponge using warm water and mild cleaning agent or a dash of the baking soda.
- Rinse with clean water and dry the storage container thoroughly.

When the device is not be used for a longer time:

- switch the device off;
- remove the ice cubes from the storage container;
- drain the water;
- thoroughly clean the device;
- leave the locking cover of the storage container slightly ajar.

In case of malfunction

In case of malfunction, immediately disconnect the device from the water supply and power supply. Contact the customer service or sales agent and request the inspection of the device.

Never try to repair the device yourself.

7. Discarding old devices



The electric and electronic devices often contain valuable materials. They also contain harmful plastics, necessary for their operation and safety. In case of disposing as a common waste material or incorrect utilization they may pose threat for human health and environment.

Therefore in any case the device should be disposed as a common waste.

After the operational period old device should be utilized according to valid regulations. Use the list of collection points for your location to return the electric and electronic devices. We recommend contacting the professional company of proper unit of the local authorities.



CAUTION!

To exclude any abuse and the dangers involved make the waste device unfit for use before disposal. For that purpose disconnect device from mains supply and remove mains connection cable from the device.

The propellant used in the device is flammable. Its utilization should be realized according to the valid regulations.

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