

08/2009

Mod: TGV/20DA

Production code: GAMMA 200 AIR



Dear customer,

we congratulate you for choosing a high quality product
which will surely satisfy your expectations.

With our thanks for choosing us,
we kindly invite you to examine the present operating
instructions manual before operating your new device.

SUMMARY

1	IMPORTANT SAFETY SUGGESTIONS AND PRECAUTIONS	3	6	MACHINE'S OPERATION	10
			6.1	Warnings	10
2	SAFETY DEVICES	4	6.2	Controls and indicators	10
2.1	Lid's magnetic sensor	4	6.3	Production	11
2.2	Extraction door's grill	4	7	WASHING AND SANITIZING	13
3	TECHNICAL DATA	5	7.1	Rinse only	13
3.1	Technical data plate and EC marking	5	7.2	Disassembling of the parts	14
3.2	Acoustic pressure level	5	7.3	Washing	14
4	CARRYING AND UNPACKING	5	7.4	Reassembly	15
4.1	Transportation of the packed machine (floor models)	5	7.5	Adjusting blades	16
4.2	Unpacking	6	7.6	Sanitization	16
5	INSTALLATION	6	8	MAINTENANCE	16
5.1	Placing and check of the parts	7	8.1	Maintenance during the components disassembling	17
5.2	Machine's parts reassembling	7	8.2	Check of safety devices	17
5.3	Electrical connection	7	8.3	Yearly maintenance	17
5.4	Initial functional test	9	9	PERIODS OF INACTIVITY	18
			10	MALFUNCTIONS	18

WARNING:



**GENERAL/MECHANICAL
DANGER**



**DANGEROUS
VOLTAGE**

A TEXT IN UPPER-CASE, IDENTIFIED BY ONE OF THE SYMBOLS ABOVE, CONTAINS INSTRUCTIONS THAT, IF NOT FOLLOWED, MAY CAUSE HARM TO PEOPLE.



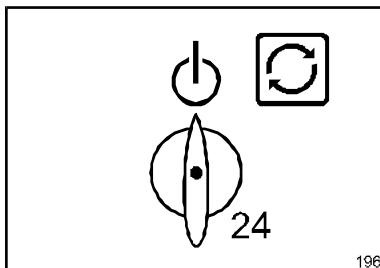
A text in lower-case, identified by this symbol, contains instructions that, if not followed, could cause damages or malfunctions to the device, or falls in its quality.

1 IMPORTANT SAFETY SUGGESTIONS AND PRECAUTIONS



CAREFULLY READ THE INSTRUCTIONS CONTAINED IN THE PRESENT OPERATING INSTRUCTIONS MANUAL BEFORE INSTALLING AND OPERATING THIS MACHINE. THESE INSTRUCTIONS HAVE BEEN DRAFTED FOR THE SAFETY OF INSTALLATION, OPERATION AND MAINTENANCE OF THIS MACHINE.

- »→ The present manual of Operating Instructions, placed on the machine in the packing and supplied with the Technical Handbook, the EC's conformity certification and the electrical tests schedule, is an essential part of the ice-cream freezer (also referred to as, in the present manual of operating instructions, simply with the term, machine) and must be preserved for any future consultation.
- »→ The Technical Handbook must always be given, together with the machine, to the Assistance Service's personnel or to the technicians to whom you will eventually request assistance.
- »→ In case of selling or transferring to other user, all the above mentioned documentation must be handed to the new user, so that he can be informed of the operation and relative technical information and safety instructions.



ALWAYS STOP THE MACHINE BY TURNING THE BEATER'S SWITCH [24] (AS SHOWN) BEFORE INTRODUCING YOUR HANDS OR ANY OBJECT INSIDE THE REFRIGERATING CYLINDER.



DO NOT INSERT YOUR FINGERS OR ANY OBJECT THROUGH THE GRILLS, LOOPHOLES OR DRAIN HOLES.



DO NOT REMOVE OR HIDE, FOR ANY REASON, ANY LABEL APPLIED ON THE MACHINE.



NEVER OPEN THE PROTECTING PANELS. THE MACHINE DOES NOT CONTAIN, IN ITS INSIDE, PARTS WHICH CAN BE OPERATED BY THE USER.



THE USER MUST NOT EXECUTE OPERATIONS WHICH ARE NOT CLEARLY CONTAINED IN THE PRESENT USER'S MANUAL. ANY OPERATION WHICH REQUIRES TOOLS NOT GIVEN IN THE MACHINE'S EQUIPMENT IS TO BE CARRIED OUT ONLY BY THE ASSISTANCE SERVICE OR BY TECHNICALLY AUTHORISED PERSONNEL.

- »→ Always turn power supply off before undertaking any operation requiring access to the machine's moving parts (beater, cylinder or extracting door).
- »→ Any modifying of the electrical supply must be exclusively performed by professionally qualified and certified personnel.
- »→ Any use of the machine that is not for the production of ice-cream, sorbet, ice-cream cake or crushed-ice, is to be considered improper.
- »→ The machine has been made to be operated by adults, prohibit children to play with it.
- »→ Modifying, or attempting to modify this machine, can be dangerous and would void any type of warranty.
- »→ Always use original spare parts.



It is important to adopt the following precautions to avoid damages at the cylinder, at the beater or any other mechanical part:

- Do not drop them and do not expose them to bumps;
- do not operate the machine dry, with a bad quality mixture or in a quantity lower or higher to that recommended: while inside the cylinder, the ice-cream lubricates the cylinder's sides as well as cooling down the beater, thus stabilizing its temperature;

- The beater and the cylinder are have been assembled with precision: therefore they are sensitive to changes of temperature, which could cause breakdowns or damages to the machine's mechanical parts due to thermal dilatation. NEVER expose to abrupt temperature changes the parts subject to refrigeration: DO NOT pour water in the cylinder immediately after ice-cream has been produced.
 - For the above reason, in the event that you have turned on the refrigerator without inserting the beater in the cylinder first, wait for the cylinder to reach room temperature, then proceed to install the beater.
- »→ In the event of the use of the machine being no longer required, deactivate the machine by severing the electric cable (after unplugging it from wall socket). In addition, follow these recommendations:
- avoid dispersing the freezing gas and the oil contained in the machine;
 - carry out the draining and/or recycling according to the local provisions of the law currently in force on this matter.

2 SAFETY DEVICES

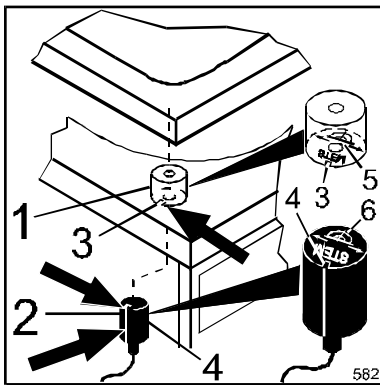


DO NOT ALTER THE SAFETY DEVICES AND DO NOT UTILIZE THE MACHINE IF THE SAFETY DEVICES ARE DAMAGED OR MALFUNCTIONING.



THE MANUFACTURER IS NOT RESPONSIBLE FOR POSSIBLE DAMAGES CAUSED TO PEOPLE OR OBJECTS BY THE ALTERING OR BYPASSING SUCH DEVICES OR RELATIVE CIRCUITS.

2.1 Lid's magnetic sensor



This safety device, featuring an approved type magnet [1] and a magnetic contact [2] avoids accidents caused by the accidental starting of the beater when the lid is open. In consequence the device can't operate when the lid is open, and if it is opened during its functioning the beater immediately stops.

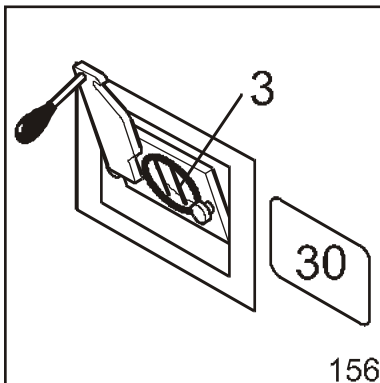
In any case the lid's magnetic sensor **MUST NOT** be considered a control to be used for the normal stop of the device.



DURING THE NORMAL USE, THE DEVICE MUST BE STOPPED ONLY BY USING THE BUTTONS ON THE CONTROL KEYPAD, AND NOT BY OPENING THE LID.

The magnet [1] and the magnetic contact [2] must be assembled as follows: the grooves [3] and the stencilled semicircle [5] on the bottom of the magnet [1] must coincide with the grooves [4] (marked by a white line down the side) and the stencilled semicircle [6] on top of the magnetic contact [2]. **The device will not work unless all parts have been correctly assembled in accordance with these instructions.**

2.2 Extraction door's grill



In large-sized models, supplied with extraction door, a fixed protection grill [3] prevents, as far as possible, fingers or objects from being **ACCIDENTALLY** inserted in the chute. In order to insure normal operation it is not possible to adjust the fixed grill as to prevent fingers and objects from being **VOLUNTARILY** inserted through the extraction chute (according to Machines Directive 89/392/CEE and ensuing modifications, Appendix I, Art. 1.1.2.b, 3rd paragraph).



RESIDUAL HAZARD: DO NOT FOR ANY REASON INSERT FINGERS OR OBJECTS THROUGH THE GRILL OF THE EXTRACTION DOOR WHEN THE MACHINE IS IN FUNCTION.

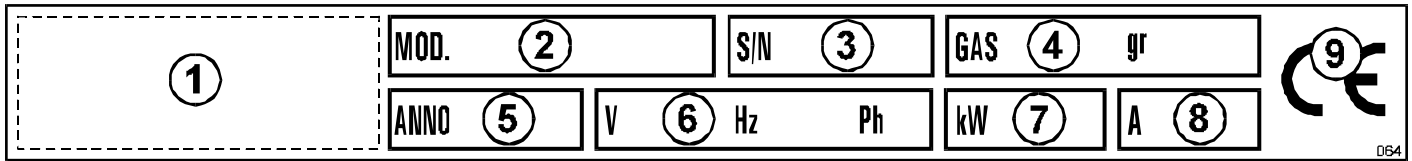
The user is warned of the above **RESIDUAL HAZARD** (89/392/CEE and ensuing modifications, Appendix. 1, Art. 1.1.2.b, 3rd paragraph and 1.7.2) by a plate [30] affixed next to the extraction chute.



DO NOT HANDLE OR REMOVE THE GRILL [3] FROM ITS SETTING IN THE EXTRACTION DOOR!

3 TECHNICAL DATA

3.1 Technical data plate and EC marking



The technical data plate and EC marking must not be removed. It is located on the back part of the machine and identifies:

- the name and address of the manufacturer [1];
- the designation of the model [2] and the relative series number [3];
- the type and quantity of freezing gas contained [4];
- the year of construction [5];
- the values of voltage and frequency [6], and the power [7] and current [8] consumption;
- the EC marking [9].

3.2 Acoustic pressure level

The average equivalent continuous acoustic pressure level of this machine is quoted in the Technical Handbook (Technical Data section). This data has been measured at 1 meter from the surface of the machine and at 1.60 meters from ground-level, during the machine's functioning.

4 CARRYING AND UNPACKING

Note: We suggest you to let the Assistance Service or qualified technicians carry out the transportation, unpacking and installation.



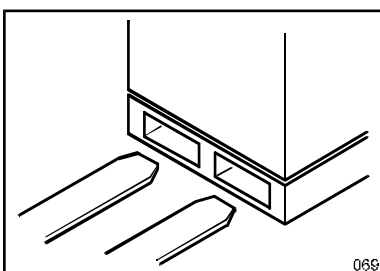
TO LIFT THE MACHINE ALWAYS USE AN ADEQUATE LIFTING DEVICE. ATTEMPTING TO LIFT IT MANUALLY IS DANGEROUS AND CAN DAMAGE YOUR HEALTH.

The machine's weight specifications, both inclusive of packaging and net, can be found in both the supplied documents and on the packaging itself.



To prevent the oil contained in the compressor to flow into the refrigerating circuit, it is necessary to always keep the machine in upright position, both during carrying and during the installation and operation. Always follow the instructions on the packing.

4.1 Transportation of the packed machine (floor models)

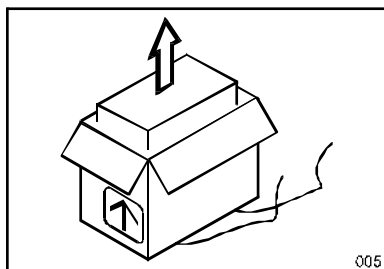


The packing has been projected to assure at the machine the highest protection.

It is therefore suggested to transport the machine while it is packed as near as possible at the place where it will be installed.

To carry the packed machine, use an elevator, or a bench trolley, inserting its forks in the basement's holes.

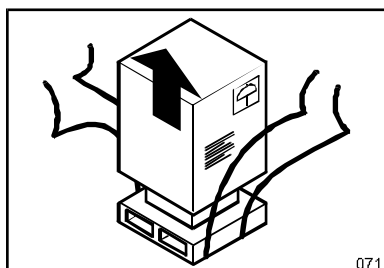
4.2 Unpacking



Unpack the machine and carefully check it. In case of doubt, do not use it, and call the Seller.

Bench top models:

- cut holding straps, open box from the top, remove protection packaging material and remove machine from the box.

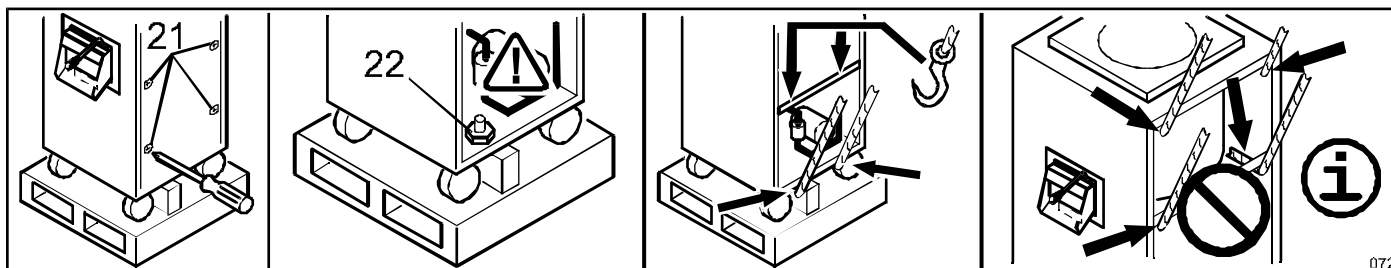


Floor models:

- cut the straps and remove the cardboard box from the top;



THE OPENING OF THE LATERAL PANEL IS ONLY ALLOWED TO THE ASSISTANCE SERVICE OR TO QUALIFIED TECHNICIANS AND MUST BE MADE BEFORE CONNECTING IT. MAKE SURE NOT TO DAMAGE THE INTERNAL PARTS OF THE MACHINE.



- Remove both the lateral panels unscrewing the relevant fixing screws [21];
- Find and unscrew the bolts [22] which fix the machine's frame at the packing's basement;



The outlet of the supply cable is placed on the machine's lower side. During the lifting make sure not to damage it.

- Lift the machine from the basement, possibly working on the lower side, near the wheels, and however, only on the frame's carrying parts. Remove the basement, and lean the machine on the floor avoiding bumps;



DO NOT insert objects, ropes or brackets for the lifting THROUGH the machine, since these could damage the inside parts.

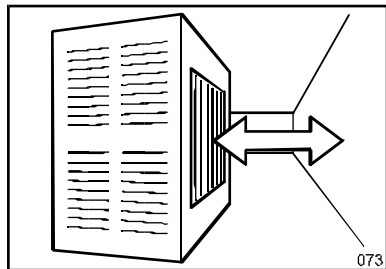
- Re-close the lateral panels;
- Replace or move the packing, which is produced with entirely recyclable materials (♻️).

5 INSTALLATION



THE INSTALLATION MUST BE CARRIED OUT ONLY BY THE ASSISTANCE SERVICE OR BY TECHNICALLY AUTHORISED PERSONNEL AND IN COMPLIANCE WITH THE LAWS IN FORCE, ALWAYS FOLLOWING INSTRUCTIONS OF THE MANUFACTURER.

5.1 Placing and check of the parts

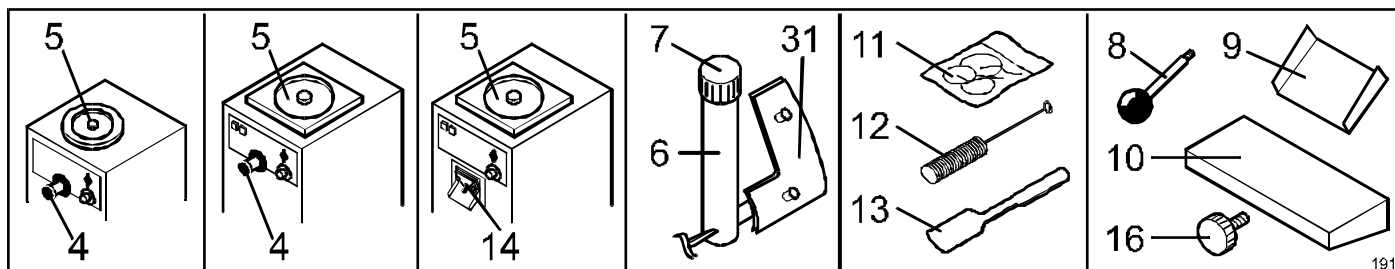


Place the machine on a flat and steady surface.

Install the machine away from any source of heat, avoiding a direct exposition to sun radiation and making sure that air can freely circulate around each side of the machine itself.



The machines with **AIR CONDENSING** need at least a 50 cm free space in front of the condenser's grill, to assure the refrigerating plant correct functioning. Further information are reported on the Technical Book (Technical Data section).



Check that the following items are all included in the package:

- lid [5];
- beater [6], correctly fixed inside the cylinder with its knob [7] and supplied with adjustable blades [31] (1...3 according to the model);
- drain plug [4] (not in large-sized models which are supplied with extraction door [14]);

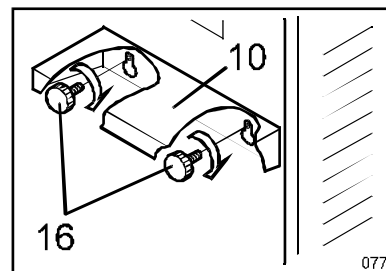
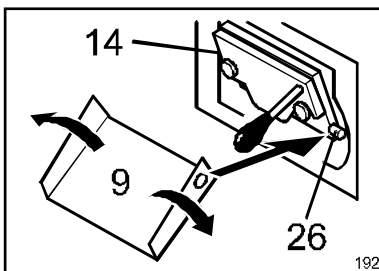
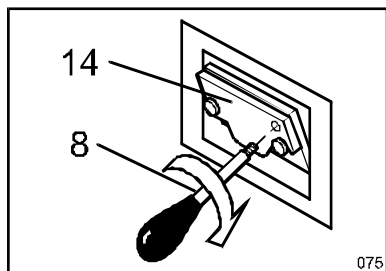
Also check that the following items are included:

- spare part kit [11], tube-brush [12] and ice-cream blade [13];
- only in large-sized models, basin support [10], knobs [16], the lever [8] and the extraction door chute [9];
- all the **technical documentation** (in addition to this handbook): the Technical Handbook, the EC's Conformity Certification and Electrical Test's Schedule.

5.2 Machine's parts reassembling



THE REASSEMBLING MUST BE MADE BEFORE CONNECTING THE MACHINE TO THE ELECTRICAL SUPPLY SYSTEM.

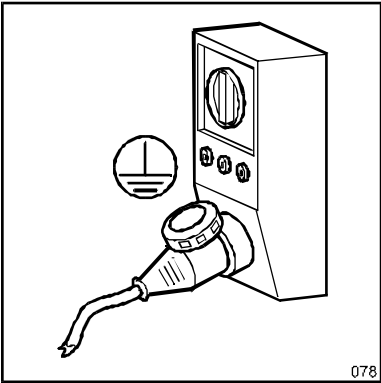


- Screw the lever [8] in the extraction door [14];
- if the chute [9] is supplied disassembled, install it under the extraction door [14] by hooking it to the hinges [26];
- install the basin support [10] by fixing it to the front panel with knobs [16].

5.3 Electrical connection



THE SUPPLY'S VOLTAGE REQUIRED BY THE MACHINE IS HIGH, SO, IT IS PARTICULARLY DANGEROUS. THE WORKS ON THE SUPPLY'S ELECTRICAL CIRCUITS MUST BE MADE WORKMANLIKE BY QUALIFIED STAFF.



THE ELECTRICAL SAFETY OF THIS MACHINE IS REACHED ONLY WHEN THE SAME IS CORRECTLY CONNECTED, BY QUALIFIED AND CERTIFIED PERSONNEL, TO AN EFFICIENT EARTHING SYSTEM, MADE AS PROVIDED FOR IN FORCE SAFETY REGULATIONS.

The manufacturer must not be considered responsible for eventual damages caused by an inadequate electric plant or earthing.

All the machine's electrical features required for the system's proportioning are reported on the Technical Data Plate and on the Technical Handbook.

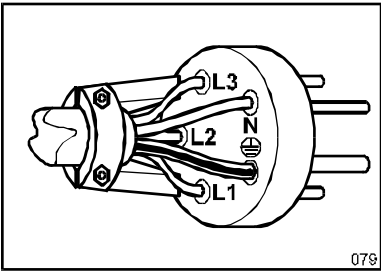


FOR THE PREPARATION OF THE ELECTRICAL PLANT WHICH SUPPLIES THE MACHINE, IT IS COMPULSORY TO FOLLOW THE PRESCRIPTIVE STANDARDS IN FORCE. IN PARTICULAR:

- The electrical capacity of the plant must exactly match the supply's voltage and frequency required by the machine;
- the current capacity of the plant must be suitable for the machine's input;
- the plant must end with a standard socket (3-pole socket for monophasic 1N input and 5-pole socket for triphasic 3N – 3F input) with electrical and mechanical suitable characteristics. The electrical socket's poles must be marked with appropriate letters (phase R or phases R-S-T + neutral N + earth); the earth pole must be properly recognizable;
- the electrical socket must prevent, through appropriate mechanical measures, the plug's wrong connection;
- the electrical socket must have, above or annexed, a knife switch, conformed to the in force safety laws, with an associated safety breaker positioned near the machine, in a place easily reachable by the operator. It must also be protected by fuses, above or annexed, with characteristics suited at the current absorbed by the machine.



A WRONG CONNECTION ON THE EARTH TERMINAL MAY CAUSE **SERIOUS DANGER**.



A plug (3-pole plug for monophasic 1N input and 5-pole plug for triphasic 3N – 3F input) must be connected to the end of the input cable. This must be suited to the power supply socket.

The machine's power supply cable is composed by coloured wires, and eventually marked with appropriate bands, which must be connected to the relevant plug's terminals, as shown in the following table.



FAULTY WIRING INSIDE THE PLUG MAY BE **DANGEROUS** AND CAUSE **DAMAGE** TO THE MACHINE. FOR THE CONNECTION, ONLY ADDRESS YOURSELVES TO QUALIFIED AND AUTHORIZED TECHNICIANS.

Kind of supply	Wire colour	Wire marking band (only 3N – 3F)	Code marked near plug's terminal
EARTH	GREEN/YELLOW	None	PE or
Phase R (3N – 3F)	BLACK		R or L1
Phase S (3N – 3F)	BROWN		S or L2
Phase T (3N – 3F)	BLACK		T or L3
NEUTRAL	BRIGHT or SKY BLUE		N
Phase (1N)	BROWN	—	L

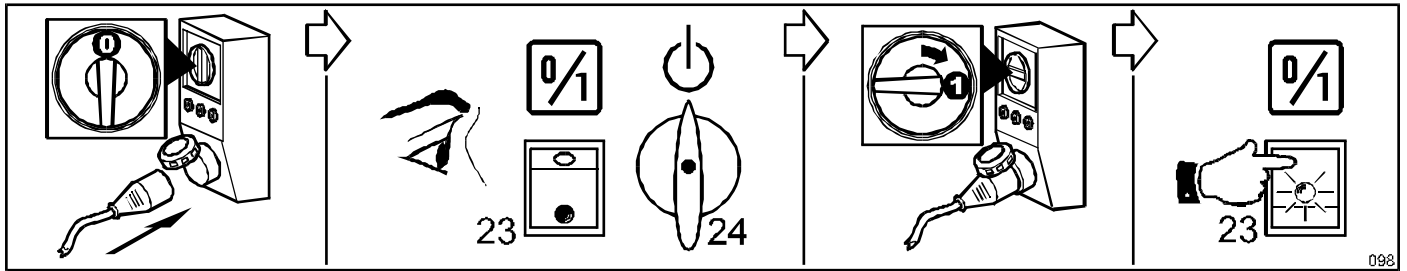


Before operating machine the initial functional test is required (ref. Par. 5.4).

5.4 Initial functional test



At the end of the installation, and before utilising the machine, it is indispensable to let a qualified technician check the correct connection, by performing the following procedure.



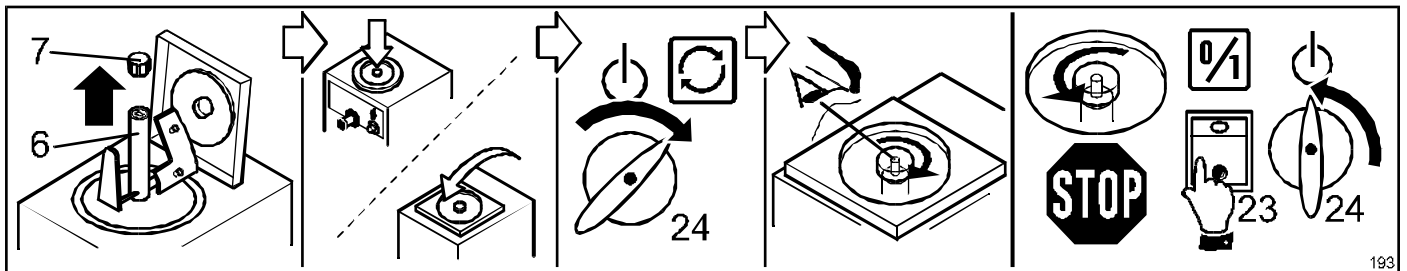
- Before starting, check that the socket's Main Switch is in the position "0";
- check that Beater's Switch [24] on the machine is in the STOP position (centre) and that Principal Switch 0/1 [23] (if applicable) is on OFF position;
- plug in and turn socket's Main Switch to position "1";
- turn Principal Switch 0/1 [23] (if applicable) to ON position: its indicator lamp should light up;



Remove the beater from the cylinder before carrying on the check, to avoid letting it function dry. **ATTENTION:** Follow the directions reported on Par. 7.2 - Disassembly of parts.



ALWAYS STOP THE MACHINE BY TURNING THE BEATER'S SWITCH [24] BEFORE INTRODUCING YOUR HANDS OR ANY OBJECT INSIDE THE REFRIGERATING CYLINDER.



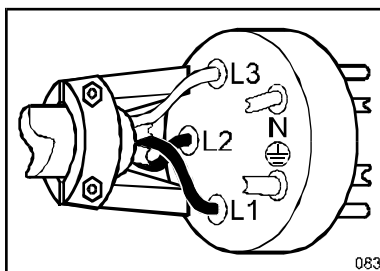
- Open the lid, unscrew the fixing knob [7], pull out the beater [6] from the cylinder, then close the lid.

Note: large-sized models do not operate when the lid is open.

- turn Beater's Switch [24] to BEATING position and check beater's shaft by looking through the lid. If it turns CLOCKWISE the machine is correctly connected and ready to be used;

Note: do not unnecessarily start the refrigerator.

- **TRIPHASIC INPUT MODELS ONLY:** If the rotation is COUNTERCLOCKWISE, the connection to the triphase power supply is wrong, and must be changed proceeding as follows:



- stop machine by turning Beater's Switch [24] to STOP position (centre) and turn Principal Switch 0/1 [23] to OFF;



TURN THE SOCKET'S BREAKER TO THE "0" POSITION, THEN UNPLUG MACHINE;

- Open the plug's shell and invert TWO of the THREE conductors connected at the phases (R-S, R-T or S-T);
- Close the plug's shell, plug in the machine and repeat the test.

6 MACHINE’S OPERATION

6.1 Warnings



WHEN USING THE MACHINE, AS WITH ALL ELECTRICAL DEVICES, ESSENTIAL RULES MUST BE COMPLIED WITH, PARTICULARLY:

- never touch it if your feet or hands are wet;
- never operate it while barefoot;
- never pull the supply cable to disconnect it from the mains network;
- avoid liquids to penetrate in the machine, for example during its cleaning;
- forbid children and unable people to operate it.

In case of failure and/or malfunctioning of the machine - and every time you notice damages, mainly at the supply cable or at the safety devices - turn off the power supply. Contact qualified and certified personnel for assistance.



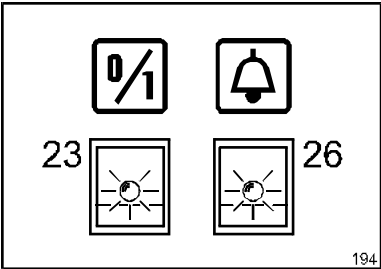
NEVER operate the machine in DRY conditions or with an amount of mixture other than the one recommended.



NOT RESPECTING THESE RULES, IN ADDITION TO VOIDING ANY FORM OF WARRANTY, CAN SERIOUSLY COMPROMISE THE SAFETY, PERFORMANCES AND FUNCTIONING OF THE SAME MACHINE.

6.2 Controls and indicators

Note: Those controls and functions with [X] next to them, may not be available on small-sized models.



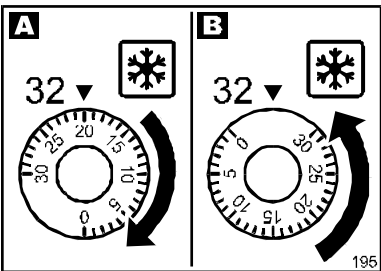
[X] Principal Switch [23]

When ON, machine is ready to operate: indicator light goes on and controls are enabled.



[X] Bell switch [26]

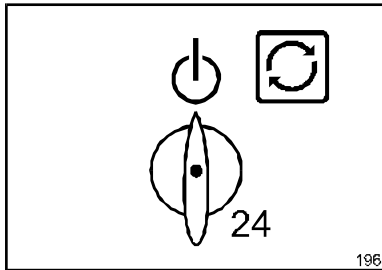
When ON, indicator light goes on and end-of-refrigeration alarm is enabled.



Refrigeration Timer [32]

By turning knob CLOCKWISE [A] refrigerating system is activated for the required time. The knob turns backwards to starting position showing remaining refrigerating time. The knob can also be manually turned in both directions in order to reduce or increase refrigerating time or to switch refrigerator off [B].

Note: It is recommended to set refrigerating time as soon as beater is operating, usually 10...20 minutes according to machine model, mixture type and quantity.



Beater's Switch [24]



STOP position (centre)

When knob is in the above position, the beater is not moving and the refrigerator is off, independently from the Timer.



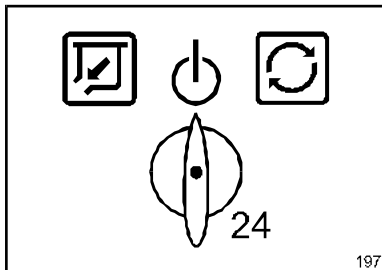
BEATING position (right)

By turning the knob to the above position the beater starts rotating clockwise and, when setting refrigerating time, the refrigerator turns on.



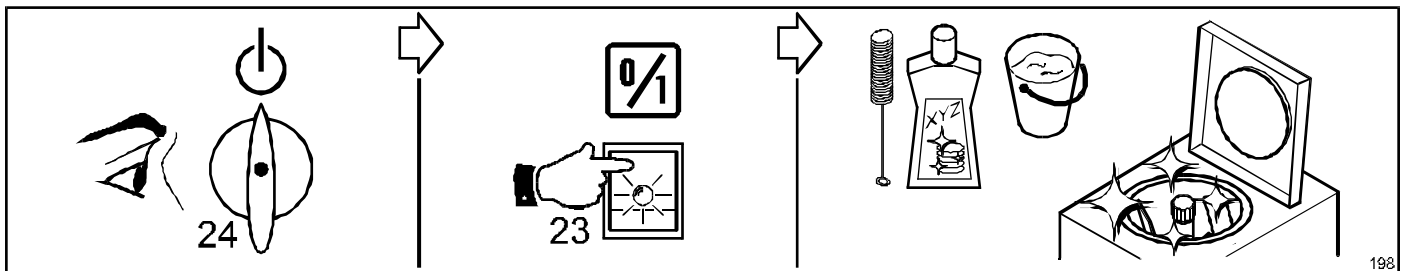
[X] EXTRACTION position (left)

This is only available on models supplied with extraction door. It allows the ice-cream to come out from the door by quickly rotating the beater COUNTERCLOCKWISE.



To avoid excessive mechanical stress, before commanding the extraction, it is necessary to OPEN THE EXTRACTION DOOR.

6.3 Production

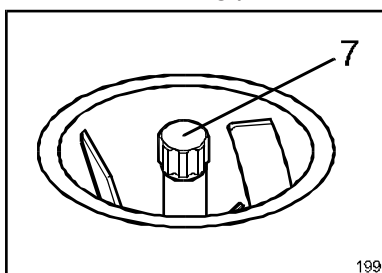


- Check that Beater's Switch [24] is on STOP (centre). Turn Principal Switch 0/1 [23] (if applicable) to turn machine on;



Do not start beater before pouring any mixture in the cylinder. The beater must not operate in dry conditions, to avoid damage.

- before starting production, the machine must be thoroughly cleaned and sanitized (see Section 7).

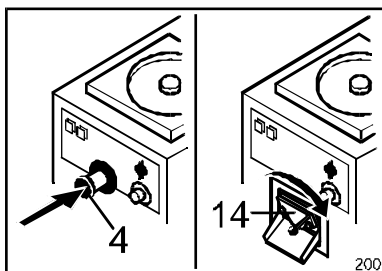


Note:

if more than one consecutive production cycle is required, a rinse between cycles is sufficient (ref. Par. 7.1), alternatively start with light-coloured mixtures and conclude with dark-coloured mixtures.



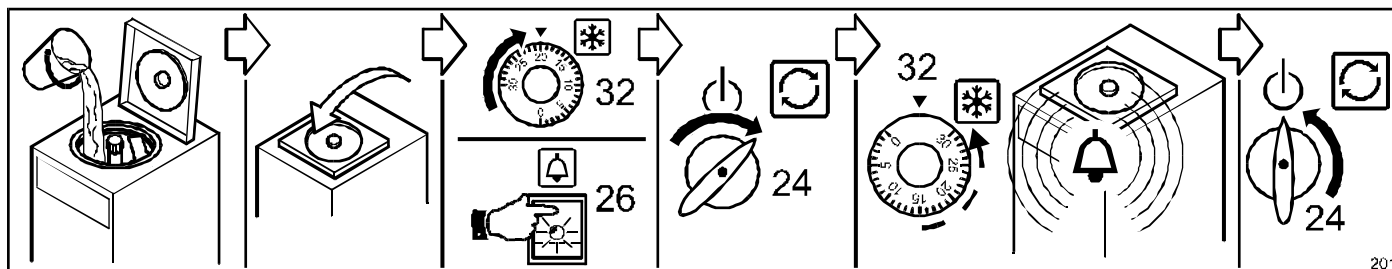
Before operating beater, ALWAYS check that beater's fixing knob [7] is FIRMLY TIGHTENED and the gasket is intact and clear of any fat. Should the knob accidentally come loose and fall into the cylinder while operating, this would cause serious damage to the machine.



- check that drain plug [4] is firmly in place or extraction door [14] is firmly closed, then pour mixture in the cylinder. Only use suitable, perfectly preserved mixtures (for ice-cream, sorbet or crushed-ice) and in the correct amount. The maximum and minimum amounts are indicated in the Technical Handbook, in the "Technical Data" section.



Unsuitable mixture or insufficient amount of it can cause the formation of ice, and cause damages or irregular functioning at the cylinder and beater, while an excessive quantity of mixture can forbid the correct whipping, in addition to causing an excessive stress at the motor and beater and overflows of product.



- close cylinder's lid;
- turn Timer ❄ [32] and read clock (in minute) to set refrigerating time according to mixture type and quantity;



The product's required thickness can be achieved by carrying out a few trial cycles. We suggest to start with a short time (6...10 minutes) and to increase it by one minute at a time, according to machine model, mixture type and quantity to be whipped. It is important to note that the first production cycle will require 1...2 minutes longer than the following cycles, the machine's parts having been kept at room temperature.

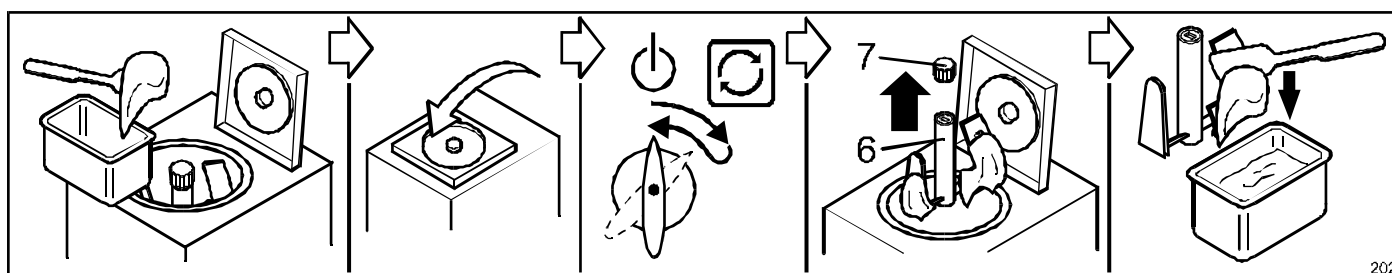
- turn Bell Switch 🔔 [26] to ON to activate alarm when whipping cycle is completed (indicator light will turn on);
- turn Beater's Switch [24] to BEATING ⤴ (right);
- wait for completion of cycle, which is when Timer knob ❄ [32] is again on starting position and the alarm rings (when available);
- turn Beater's Switch [24] to STOP ⏻ (centre).

At the end of the production cycle, the product is ready to be extracted:

Models **WITHOUT** extraction door:



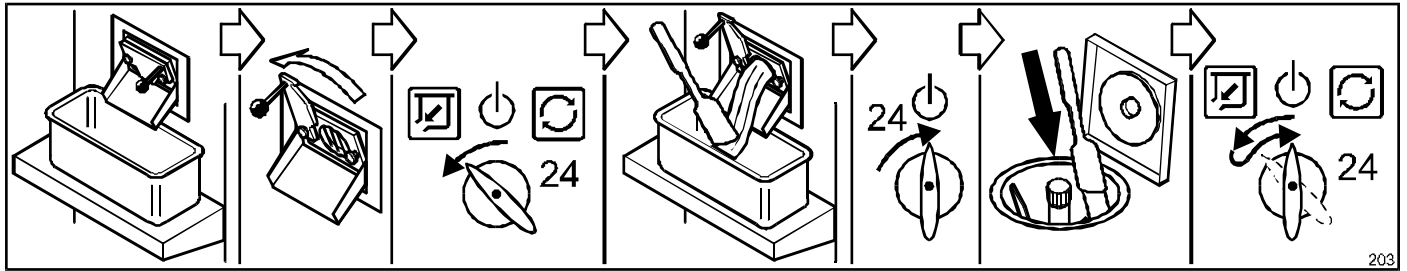
ALWAYS STOP THE MACHINE BY TURNING THE BEATER'S SWITCH BEFORE INTRODUCING YOUR HANDS OR ANY OBJECT INSIDE THE REFRIGERATING CYLINDER.



- open lid and remove as much as possible of the product using the supplied ice-cream blade;
- close the lid and spin beater for a short time: this will allow any remaining product to be collected on the beater's blades. Open lid and remove as much as possible of the product. This can be repeated a few times, until cylinder is completely empty.

Note: by opening the lid and unscrewing fixing knob [7], the beater [6] can be removed and the product wiped from the blades.

Models WITH extraction door:



- place a suitable basin on the basin support;
- FIRST completely open the door, THEN turn Beater's Switch [24] to EXTRACTION (left). Scoop product out into the basin;
- stop beater by turning Switch [24] to STOP (centre);
- open lid and remove any ice-cream left on the beater's blades, this will be collected at the bottom of the cylinder;
- turn switch again to EXTRACTION as to eject any remaining product;
- if needed the above procedure can be repeated;
- stop beater and close extraction door.



FATS CONTAINED IN ICE-CREAM MIXTURES ARE POTENTIAL BACTERIA BREEDING GROUNDS. IT IS RECOMMENDED, ON COMPLETION OF THE PRODUCTION CYCLE(S) TO THOROUGHLY DISASSEMBLE, WASH AND SANITIZE ANY PARTS OF THE MACHINE WHICH COME INTO CONTACT WITH THE PRODUCT.

7 WASHING AND SANITIZING

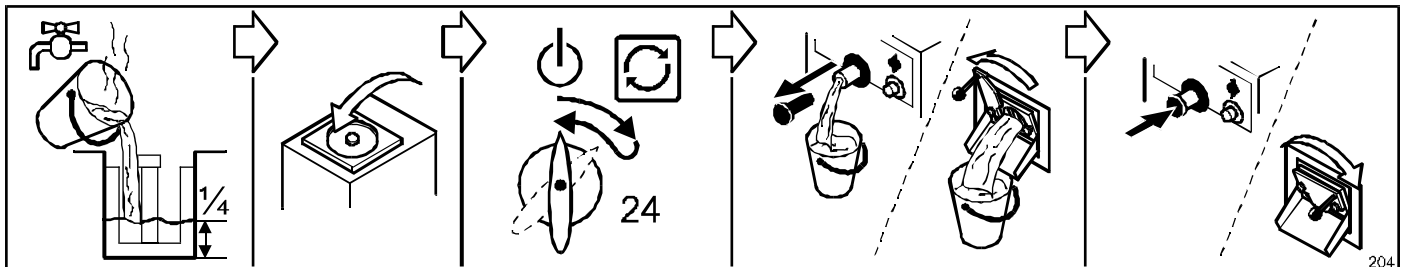
7.1 Rinse only

To remove ice-cream residues of a dark colour or containing hard pieces such as dry fruit or granules a quick rinse between cycles is available.



Wait the cylinder to reach the right temperature to avoid freezing rinsing water.

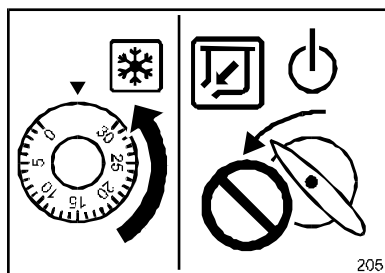
Note: During rinsing, the machine may make a louder noise. This is due to the lack of lubrication usually provided by mixture or ice-cream.



- pour warm water in the cylinder up to 1/4 of its capacity;
- close the lid and turn beater switch [24] to BEATING (right) spin for a short time;



Do not operate cylinder for long periods of time. Lack of lubrication usually provided by mixture or ice-cream may damage either the beater or the cylinder.



Check that Timer knob **❄** is turned counterclockwise (starting position) to avoid starting refrigerator unnecessarily.



CAUTION: DO NOT TURN Beater Switch to EXTRACTION  (left) as this would cause water to be suddenly ejected out of the cylinder.

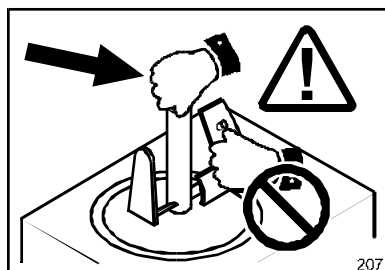
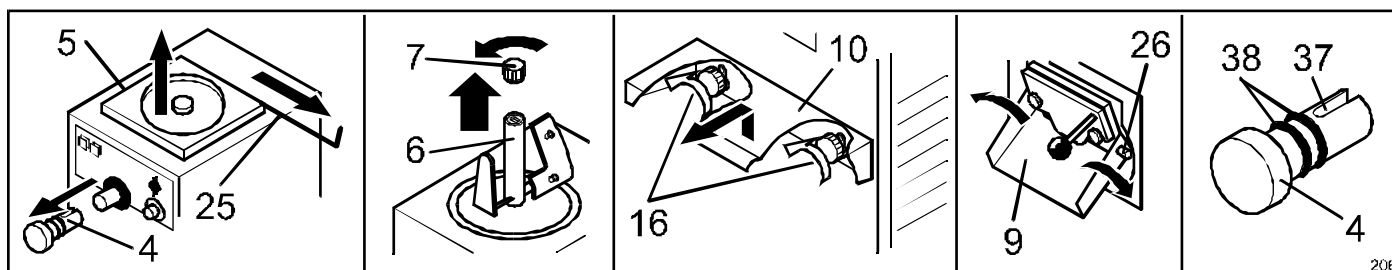
- stop beater, put a container under the cylinder drain (or extraction door) and open it to let water out of the cylinder.

7.2 Disassembling of the parts

To make washing and sanitization easier, all parts coming into contact with the product can be easily and quickly disassembled directly by the user.



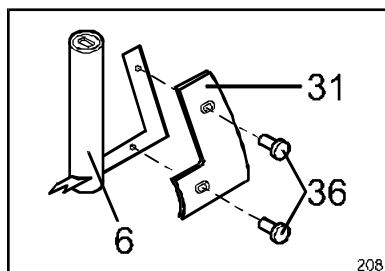
THESE OPERATIONS MUST BE CARRIED OUT ONLY AFTER DISCONNECTING MACHINE FROM MAIN POWER!



- Carry out rinsing operations (ref. Par. 7.1) in order to easily reach machine's parts;
- remove lid [5] (if necessary remove hinge pin [25]);
- remove drain plug [4];
- unscrew counterclockwise fixing knob [7] and remove beater [6];



RESIDUAL HAZARD: BEATER'S BLADE ARE SHARP ALONG BOTTOM AND EXTERNAL SIDE EDGES. IT IS RECOMMENDED TO USE SUITABLE PROTECTIVE GLOVES AND TO HANDLE THE BEATER ONLY BY HOLDING THE CENTRAL HUB AND NOT THE BLADES.

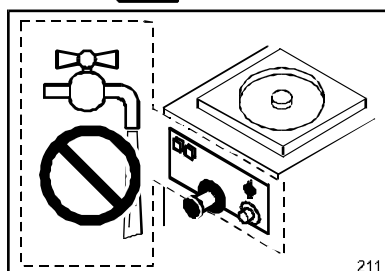


- remove basin support [10] (if applicable) by unscrewing knobs [16];
- unhook chute [9] (if applicable) from hinges [26] and remove it;
- for a thorough wash, separate blades [31] (take care not to loose screws).

7.3 Washing



THESE OPERATIONS MUST BE CARRIED OUT ONLY AFTER DISCONNECTING MACHINE FROM MAIN POWER!



DO NOT ALLOW WATER OR ANY OTHER LIQUID INSIDE THE MACHINE.



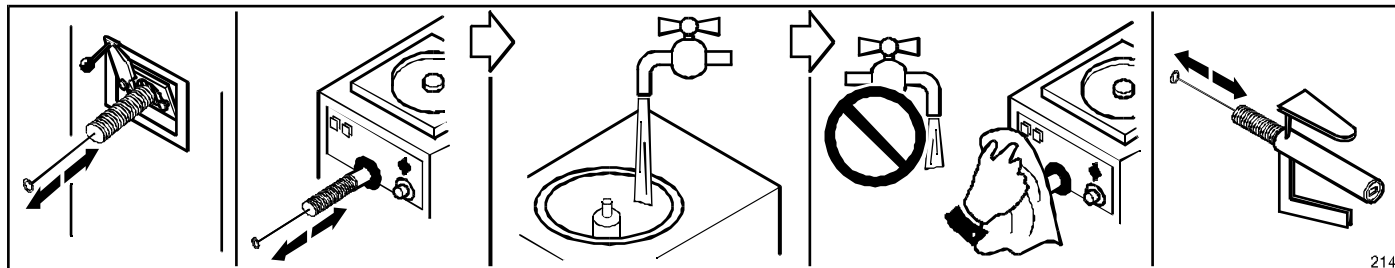
TO CLEAN CONTROLS ON FRONT PANEL ONLY USE A DRY CLOTH OR ONE SLIGHTLY DAMP WITH DETERGENT. NEVER USE WATER OR ANY LIQUIDS!

All parts coming into contact with the product must be carefully washed and sanitized to comply with health regulations currently in force.

- 1) Separately wash all those parts which can be dismantled by the user following instructions in Par. 7.2. Only use warm water and food compatible detergent, followed by a cool rinse.

Note: For a long life of the machine we suggest not to use too hot water, solvents, abrasive detergents, or rough sponges, in particular on the plastic parts.

- 2) Thoroughly wash all those parts of the machine which are fixed:

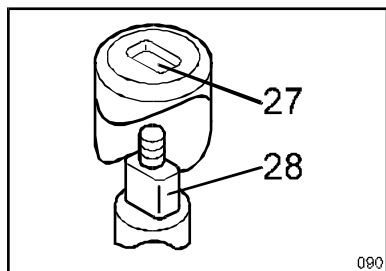
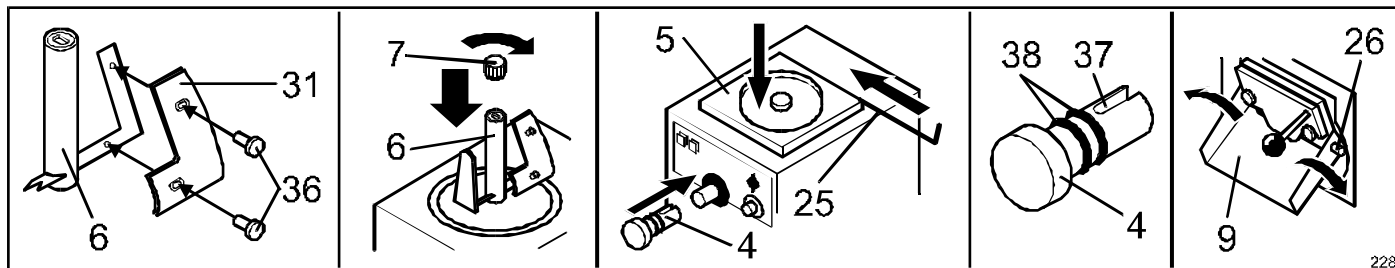


- cylinder drain (or extraction door) using the supplied tube-brush;
- top and inside of the cylinder;
- front panel and its components, taking care as to avoid letting water into electric controls.

7.4 Reassembly



THESE OPERATIONS MUST BE CARRIED OUT ONLY AFTER DISCONNECTING MACHINE FROM MAIN POWER!

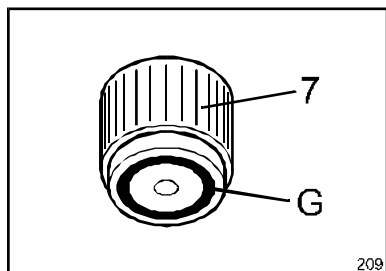


- Assemble blades [31] on beater's supports [6] partially screwing screws [36]. Blades will be subsequently adjusted.



Carefully place beater into the cylinder, taking care to keep it vertical without dropping it.

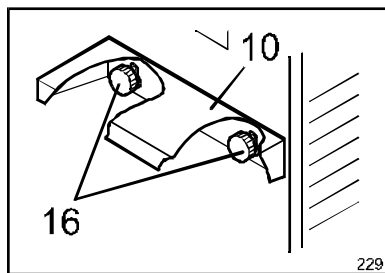
- The slot on the beater's hub [27] goes into the shaft clutch [28];
- FIRMLY tighten beater's fixing knob [7];



Before tightening knob [7], always check that the gasket [G] is in perfect conditions and in place, and that is clear of any fat as to prevent knob from accidentally coming loose. Should the knob fall into the cylinder during production cycle, it would cause serious damage to the machine.

Note: Gaskets must be periodically replaced (ref. Par. 8.1).

- put lid in place. If supplied with hinges, insert pin [25];

**Models WITHOUT extraction door:**

- put drain plug [4] in. The slot [37] has to be facing downwards, otherwise the plug will not go in. Should it prove hard to insert, lubricate gasket [38] with food compatible lubricant;

Models WITH extraction door:

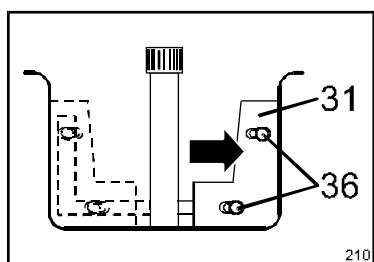
- fix chute [9] under the door [14] hooking it on hinges [26];
- fix basin support [10] on the front panel with knobs [16].

7.5 Adjusting blades



THESE OPERATIONS MUST BE CARRIED OUT ONLY AFTER DISCONNECTING MACHINE FROM MAIN POWER!

Blades must be adjusted whenever they are replaced on the beater.



An incorrect or lack of adjustment of the blades could cause the formation of ice on the cylinder inner walls, or excessive wearing of the blades and mechanical stress of the beater.

- Once the beater is in place, push blade [31] outwards by hand so that scraping edge is perfectly in line with and matches the cylinder inner surface. At the same time, tighten fixing screws [36];
- in case of models supplied with more than one scraping blade, repeat operations for all blades, placing them evenly.

7.6 Sanitization

Sanitization is an operation similar to rinsing (ref. Par. 7.1). However, this must be carried out with a solution of warm water and food compatible disinfectant.

To correctly dose, follow disinfectant's instruction for use. If required, in the final stage of sanitizing, rinse with water only.



On completion of sanitization, close lid and neither touch with your hands, nor wipe with cloths or paper towels any part of the machine which will come into contact with food.

Check that there is no more water inside the cylinder. If needed, briefly spin the beater to drain any remaining water.

8 MAINTENANCE

The machine requires a very limited maintenance. Periodically, we suggest to:

- check the good conditions of the machine's parts;
- check that electric power cable is not damaged;
- Try the efficiency of the safety devices (ref. Par. 8.2).

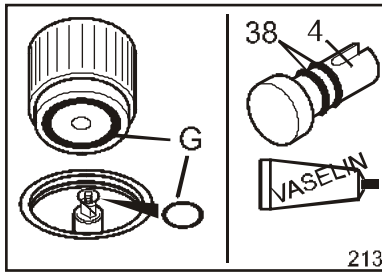
It is then useful to maintain the external panels clean and the surrounding area. Dust, paper fragments or other small objects may penetrate in the machine through the ventilation loopholes (in particular if equipped with air condensation and rapidly compromise its correct functioning.

The inside parts, to which the user **MUST NOT** accede, must be checked by the Assistance Service (ref. Par. 8.3)

8.1 Maintenance during the components disassembling

Check the integrity of gaskets and substitute those that are deteriorated.

Use exclusively original, compatible with food, rubber gaskets. The spare bag contains a complete series of gaskets approved by the manufacturer.



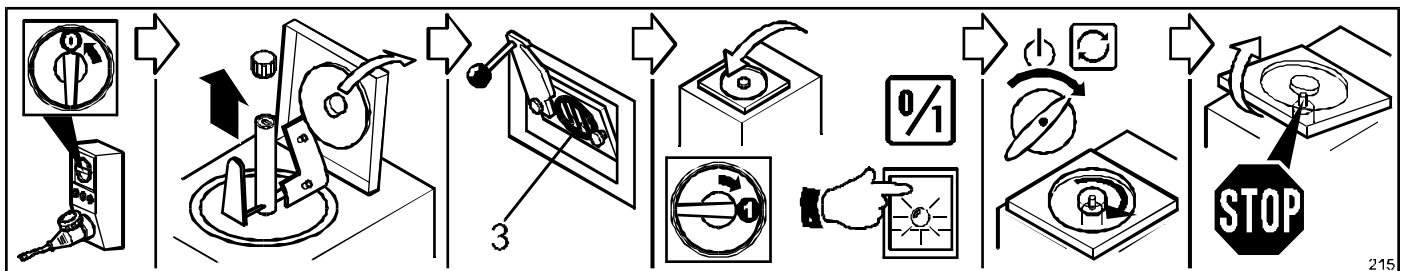
- To correctly replace the gaskets it is necessary to:
- remove the old gaskets by using a sharp tool, possibly non-metallic, paying attention not to scratch the seating of the gaskets themselves;
- clean the seatings and the gaskets [G] from any kind of grease before inserting the new gaskets;
- LUBRICATE gaskets [38] and their seats in the drain plug [4] with food compatible fat.

Check that the plastic blades' scraping edges do not show any dents, scratches or wear marks which cannot be mended by adjusting. Should this be the case, replace blades.

A yearly preventive replacement of all wearing parts and all gaskets is recommended. We suggest you to always keep a spare supply: to order it, reference to the Spares Section contained in the Technical Handbook.

8.2 Check of safety devices

Every three months, check that all safety devices on your machine are in perfect working order:



- open the lid and remove the beater;
- check that the protection grill [3] is well fixed and not damaged;
- close lid and supply the machine;
- turn beating on (beater's shaft will start). Then open the lid. Provided that the lid's magnetic contact is correctly working, the beater's shaft will stop immediately and the Display will show "oo" (two small squares).

If the machine's functioning is as described, the safety devices are efficient.



THE MACHINE MUST NOT BE USED IF ONE OR MORE OF THE SAFETY DEVICES SHOULD RESULT DAMAGED OR MALFUNCTIONING!

8.3 Yearly maintenance

Periodically (basing yourself on the environmental conditions in which the machine operates) and in any case once every year, make sure to have a general checkup.



THE CHECK-UP MUST BE MADE BY THE AUTHORISED ASSISTANCE SERVICE, OR, IN ANY CASE, BY TECHNICALLY AUTHORISED PERSONNEL WITH ADEQUATE TOOL. THE MAINTENANCE OPERATIONS RESERVED TO THE SERVICE ASSISTANCE CAN BE DANGEROUS IF CARRIED OUT BY NON-PROFESSIONALS, THEREFORE, FOR HIS OWN SAFETY, THE USER MUST NEVER CARRY THEM OUT.

9 PERIODS OF INACTIVITY

If long periods of inactivity are foreseen, proceed as follows:

- wash up completely the machine (see Section 7);
- switch off the power breaker and unplug the machine;
- if the machine will be stored in a different place, group all the documentation, together with the present manual, and enclose it at the machine (i.e. in the cylinder).

10 MALFUNCTIONS



WE RECOMMEND YOU TO CALL IMMEDIATELY THE ASSISTANCE SERVICE IF A MALFUNCTION DIFFERENT FROM THOSE HERE DESCRIBED IS FOUND.

The machine does not work or stops working ...

... Principal Switch  is ON but its indicator light DOES NOT TURN ON.

Cause: The plug is not correctly plugged.

Cause: The plug is defective. A qualified technician should substitute it.

Power in the socket is missing. Check that the breakers, the omnipolar switches and the differentials (lifesavers) on the electric plant are closed. If they aren't, before closing them, make sure that no one is making electrical maintenance.

Cause: A protective fuse of the electric plant is cut down. Find and remove cause of overload and replace fuses with ones of suitable capacity.

Cause: The supply cable is defective. FIRST turn off switch / knife switch above the socket to remove power supply from it, then unplug the machine and call Assistance Service.



DO NOT TOUCH THE DAMAGED ELECTRICAL CABLES BEFORE HAVING CUT DOWN THE ELECTRICAL SUPPLY!

Cause: Principal Switch is faulty. Call Assistance Service for a replacement.

... Principal Switch  is ON and its indicator light IS ON but machine does not work.

Models with lid's magnetic contact:

Cause: The lid is not correctly closed or tends to open;

The product lifts the lid due to an excessive quantity or an excessive volume increase. Use a smaller amount of mixture or more suitable ingredients.

The lid's magnet is damaged. Call the Assistance Service.



THE MAGNET AND ITS CONTACT ARE IMPORTANT SAFETY DEVICES!

Cause: The Beater's back up relay switches off, following overuse or mechanical overload. Check that the eventual product in the cylinder is not excessively dense and that there are no other causes of mechanical stress. Stop the machine, wait a few minutes and try again. If the inconvenient should not be eliminated, or should frequently repeat, call the assistance service.

Note: it may be necessary to wait up to 30 minutes for the thermal protections to cool down.

Cause: Break down of inside parts or at the electronic controls. Call the Assistance Service.

The machine causes repeated releases of the mains electrical protections or the interruption of mains fuses.

Cause: The capacity of the electrical plant is not sufficient to feed the machine.
The electrical characteristics of protections and fuses are not adequate.
Inside breakdown of the machine. Call the assistance service.

The refrigeration is insufficient or disactivates in an anomalous way.

Cause: The compressor's back up relay switches off, following excessive stress (REPEATEDLY STARTING TO BE AVOIDED, high pressure, overheating). Stop the machine, wait a few minutes and start again. If the inconvenient shall repeat or frequently repeat, call the assistance service.
Refrigerating system or control circuit are faulty. Call Assistance Service.

Cause: Obstacles are placed at the air conditioning's opening, at a distance lower than that described. Restore the minimal distance reported in the Technical Handbook.
The room temperature is too high and condensation is inadequate.
The air condensator is dirty. Request the cleaning at the Assistance Service.
The condensator's fan is broken. Call the Assistance Service.

Unusual noises.

The noisiness comes, mainly, from the cylinder, when the beating is activated.

Cause: Beater's blades are not correctly adjusted. Proceed as describes in Par. 7.5 - Adjusting blades.
A layer of ice has developed between the beater and the cylinder: the mixture is not idoneous, or is not sufficient.
Beater's blades may be damaged or worn. Check that the plastic blades' scraping edges do not show any dents, scratches or wear marks which cannot be mended by adjusting. Should this be the case, replace blades.
The beater and/or the cylinder are damaged or excessively worn. Call the Assistance Service.

Cause: The beater and/or the cylinder have gone through a sudden temperature change, and stress mechanically. Stop the machine and wait a few minutes.

The noisiness DOES NOT come from the cylinder, or is also present when the beating is not activated.

Cause: Inside break down. Call the Assistance Service.