

**Manuale  
d'uso  
e manutenzione**

**Use and  
maintenance  
manual**

**Manual  
de empleo y de  
mantenimiento**

**ELMECO**

**ADVANCED SOLUTIONS FOR COLD BEVERAGE  
SINCE 1961**



**A quality choice**

Elmeco business is managed in according with rules of Vision 2000 and ISO 14001



Choosing Elmeco, and in particular Big Biz, the new and only multifunctional electronic machine, demonstrates your attention to innovation. Thanks for understanding the importance of working with a company that does not consider “quality” as an abstract word. For Elmeco quality is a concrete commitment. It actually means to clinch the attention to the innovation that characterized us as the creators of the first slush machine and that today confirms our leadership in the technical forefront. For our company “Quality” also means working trying to always improve from a management and organizational point of view following the ISO 9001: 2000 certification, and it finally means to care about the customers and to dedicate investments and resources to continuously meet their needs.

On the other hand, for those who decided to choose Elmeco, quality means being able to work with reliable and lasting products, to count on a precise and qualified assistance in order to work with increasing satisfaction and earnings.



**General instruction and warnings**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

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

Before switching on the machine carefully read the information in this service manual; this way you will be able to install, use and maintain the machine

Keep the use and assembly instructions, even for the next buyer. The manufacturer declines any responsibility for damages deriving from the non-observance of the following instructions.

Install the machine according to the assembly instructions. The power supply must correspond to the data on the plate on the front side of the machine behind the drip tray (pic.1).



During maintenance and cleaning, or in case of bad functioning, disconnect the machine from the power plug (by pulling the plug and not the cable) (pic.2 and 3).

Only specialized and authorized staff can repair the machine. Not perfect repairing can be dangerous for the user. Contact Elmeco for information concerning the closer authorized assistance centre.

For correct operation use the machine at maximum temperature of 32°C/89.6°F and minimum 24°C/75.2°F.

For safe operation the maximum tilt of the appliance is 1,5 degree towards the front side (outlet).

The appliance is not suitable for installation in an area where a water jet could be used.

The appliance is only to be installed in locations where its use and maintenance is restricted to trained personnel.

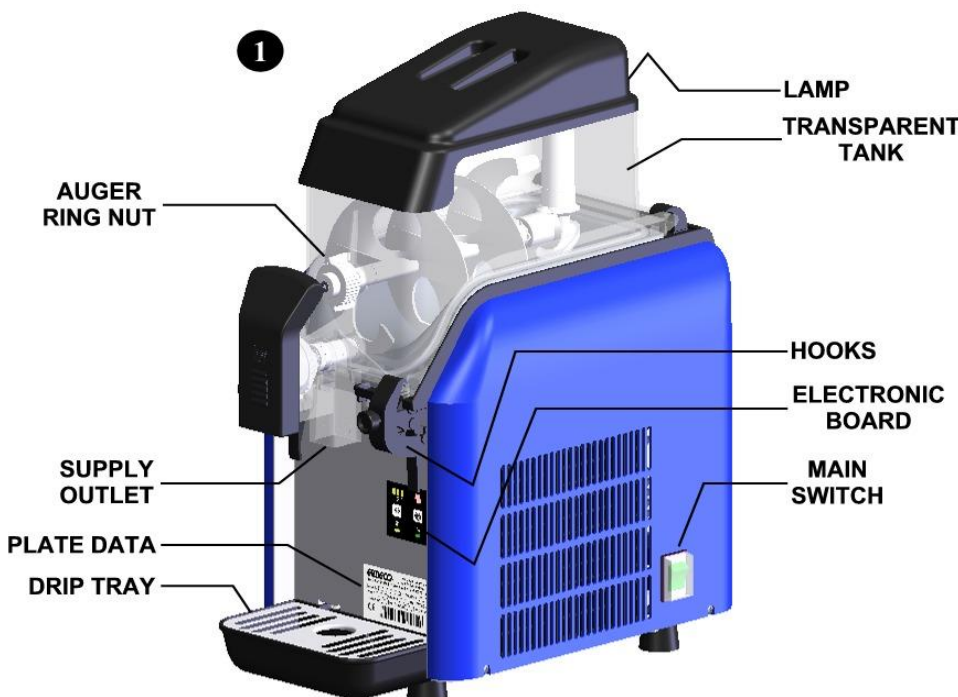
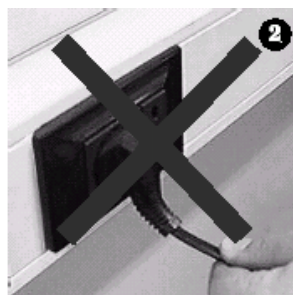


PLATE DATA

## Installing the new machine

This machine for the production of cold drink, slush, and slush grants the absolute homogeneity of the product and the possibility to regulate its density thanks to an innovative electronic control. Before installing the machine, verify that:

- **Big Biz is not placed by an heat source;**
- **The machine has not been damaged during transportation. In case of doubt, contact the supplier;**
- **The power supply system is endowed with a grounding that respects the rules of law;**
- **The power supply system capacity is adequate to the maximum power of the machine, as indicated on the plate (pic.4 pag.12).**

In case of doubt, contact only qualified staff.

In order to install the machine, carefully read the following instructions.

### Warnings

This machine is only for the use it has been manufactured for. Any other usage is to be considered as improper and dangerous.

### Machine description (pic.1 pag.12):

- Lamp
- Transparent tank
- Auger ring nut
- Supply outlet
- Hooks for the tanks removal
- Control electronic board
- Main switch
- Drip tray
- Plate data

### Installation

It is suggested that the machine is installed only by qualified staff. A wrong installation can cause damage to people or things, for which things the manufacturer declines any responsibility.

Once the machine is unpacked, verify the integrity of the machine. The packaging elements (plastic bags, expanded polystyrene, nails, etc.) must not be left at children reach as they might be dangerous.

**Remove the protection plastic stripes also from the internal side of the grids.**

We do not recommend to plug the machine using adaptors, multiple plugs and/or extensions.

If necessary, use only materials that conform to the security rules in force, as for the current intensity up to what indicated on the plate (pic.4 pag.12).

Place the machine so as to avoid any heat source to be close to the grids. Verify that there is a free space of 25 cm at least around the machine (pic.5 pag.36).

After connecting the machine to the power supply and switching on the main switch, verify that air comes out from the side grids (pic.6 pag.36).

### Right usage

Before switching on the machine, it is necessary to clean it as indicated in the "Cleaning" paragraph.

## Cleaning

Cleaning is very important for the life and maintenance of the machine; we recommend to periodically clean the parts that are in contact with the product using the following procedure.

### Warning!

**The appliance must not be cleaned by a water jet.**

### Warning!

**Switch off the main switch and disconnect the power plug (pic.7 pag.36) before starting any operation.**

Use a solution of cold water and sodium hypo chlorite (bleach) with a 10 grams (1/2 spoon) for 1 liter of water ratio. Rinse with lukewarm water.

### Warning!

**A greater quantity of beach could damage the material of the auger.**

### Warning!

**If the plastic parts are washed in the dishwashing machine, verify that the temperature is not higher than 60°C or 140°F, because they could be damaged.**

**Do not use any abrasive powder.**

## Tank cleaning procedure

See the picture at the end of this manual.

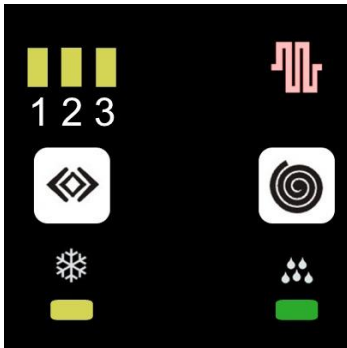
- Empty the tanks by opening the outlets and blocking them (pic.8 pag.36), moving the little letter from the left to the right.
- Remove the lamp (pic.9 pag.36), pour water in the tanks and then empty them.
- Remove the outlet (pic.20, 21, 22 and 23 pag.37) and the tank gasket :
  - Remove the lever cover (pic.20 pag.37) by pushing "PUSH" downward; and remove the lever (pic.21 pag.37);
  - Rotate the ring nut counter clockwise (pic.22 and 23 pag.37) and pull the outlet.
- Remove the auger ring nut (pic.10 and 11 pag.36).
- Remove the tank unscrewing the hooks grips (pic.12 pag.36), if present, and opening the hooks (pic.13 pag.36); lift the tank as shown in pic.14 and 15 pag.36.
- Unscrew the ring nut (pic.16 pag.36) in order to remove the vertical auger (pic.17 pag.37).
- Remove the horizontal auger; this way the stainless steel side of the tank is completely open and ready to be cleaned (pic.18 and 19 pag.37).

- Dip the dismantled parts in the solution of water and bleach.
- Wash and dry.
- Wet the gasket before inserting it in place, be careful to place the gasket joint in one of the back corners of the tank in the proper allocation.
- Reassemble everything.
- Connect the machine to the power supply.

## Condenser cleaning procedure

Remove the side panel unscrewing the screws on the bottom, and clean the radiator with a soft brush or (if possible) with compressed air.

## Control and signals



: product density indicator leds (min 1 max 3);

: product cooling activity indicator;

: "slush" mode functioning indicator;

: "cold drink" mode functioning indicator;

: machine switch button;

: mode selection button

## Self diagnostics

If the LED blinks on the electronic board with the value 1, 2 or with the slush and cold drink value, see the tables at the end of this guide, the Web site "Problem Solving" of [www.elmeco.com](http://www.elmeco.com), or call the service centre.

## Configuration memory

All the functioning modes and the regulations set are registered in a non-volatile memory which is active even without power; therefore, when you switch on the machine, the tank keeps the configuration it had when you switched it off.

## How to start the production of slush, sherbets or cold drinks

The maximum amount of liquid that the tank can hold is (granita 5.5 / 6lt - creams 3/4lt).

If you switch on Big Biz and only the augers start moving while the cooling system is not working yet.

- Clean the machine as previously described.
- Remove the cover and put the mix in the tanks.  
**Warning:** the temperature of the poured product must not be lower than 5 °C in order to allow a correct calibration of the electronic board, this will be indicate with blink of led 3.
- Switch on the main switch (see picture 7 pag.36).

- Switch on the auger switch ;
- by pressing the mode selection button , you can change from freezing off to "1 slush" value, that's to say from the lowest product density level. If the product temperature is higher than 5 °C, automatically, will start the calibration procedure and the led 3 will blink. The blinking of led 3 will stop when the calibration procedure will be finished (about 2 minutes), in this period of time the machine can work without any problem;
- If you press the mode selection button twice, you change the value to "2 slush" that's to say to the intermediate product density level;
- Pressing the mode selection button again , you change the value to "3 slush" that's to say to the maximum product density level that can be set by Big Biz;
- If you press this button again , you pass to the cold drink mode; at this point, Big Biz will preserve the product with a 4°C +/- 1°C temperature.
- If you press this button again , you go back to the starting point, that's to say only with the active augers but the cooling system switched off.

**Warning:** Use only potable water for the preparation of the mixtures.

**Warning:** in order to have slush, sherbets or cold drink, you need a small quantity of sugar per liter. The recommended quantity is generally reported in the usage instructions. In case of natural products, we suggest to use a quantity that goes from 12 and 22%.



If the horizontal auger is blocked because of ice blocks due to a lack of sugar or to other reasons, such as foreign bodies in the tank, the vertical auger can undergo a break.

### Timer defrost (BB2 optional)

The "Timer Defrost" function is optional. The machine is endowed with a clock timer that, if properly regulated, changes the "slush" function in "cold drink" and vice versa. This function grants a cold product with a 4°C temperature (+/-1°C), even during the night (Night Mode), with a great advantage especially for milk-based products.

The Timer Defrost function is not activated on the machine.

The setting and the activation of the Night Mode and Day Mode is done when the machine is installed in the following way:

1. panel opening;
2. local time setting on the timer;
3. Night Mode and Day Mode hour setting;
4. panel closing.

### Important safety rules

- Do not touch the machine when you have wet hands and/or feet.
- Do not use the machine with bare feet.
- Do not allow children or incompetent people to use the machine.
- Do not leave the machine exposed to atmospheric agents.
- Do not pull the power supply cable to disconnect the machine from the electric power.
- Do not remove the panels before disconnecting the machine from the electric power.
- This appliance is intended to be used in household and similar applications such as
  - staff kitchen areas in shops, offices and other working environments;
  - farm houses and by clients in hotels, motels and other residential type environments;
  - bed and breakfast type environments;
  - catering and similar non-retail applications.

### Old machine disposal

The out-of-use machines must be disabled. Disconnect the plug from the electrical network and cut the cable.

**Ecological instructions**

All refrigerating machines must be disposed by the communal disposal service or by an equivalent private authorized company. Take care not to damage the rigid tubes of the refrigerator until they are taken back in order to be carefully and ecologically disposed. All packaging materials used can be discharged without any danger.

**Old machine discharge**

Ecological instruction (proposed).

The refrigerating machines manufactured by Elmecc Srl, like the greatest part of the refrigerating machinery, like freezers and air-conditioners, use freon as refrigerating gas. Freon, like other refrigerating liquids, is responsible of the damages to the ozone layer. Even though the kind of freon that Elmecc Srl use for the production of its machines is ecological (R404 CE 01.01.2001 rule), the Company imposes the buyers to be acquainted with what follows and to conform to the following rules.

The slush machines must be discharged by the communal discharge service or by an equivalent private authorized company.

Remember not to pierce, for any reason, the refrigerating circuit containing the gas.

**Technical assistance**

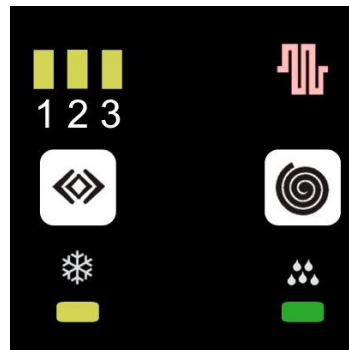
The repairing of the machine (example: Replacing power cord) must be carried out by an authorized service centre, using only original spare parts.

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

The out-of-use machines must be disabled. Disconnect the plug from the electrical network and cut the cable.

**Pressure switch refit procedure**

When the slush led, cold drink led and led 1 blink on the electronic board at the same time,



This indicates that the pressure switch intervened to deactivate the compressor.

In order to refit this device, it is important to follow the instructions below:

- 1st. Remove the drip tray. **In case of 2 tanks slush machine remove the left drip tray.**



- 2nd. Push the black button as shown in the picture.



**In order to avoid this situation to happen again, verify the correct position of the machine as in the pic.5 pag.36 and/or clean the condenser as described at pag.14.**

**Cotter pin substitution**

**Warning:** The following operations must be performed only by qualified personnel.

If the machine works but the augers do not turn, it is possible that the cotter pin, (item 35 of the exploded view at pag.34) that connects the gear motor to the transmission shaft, broke down.

Disconnect the power electric cable

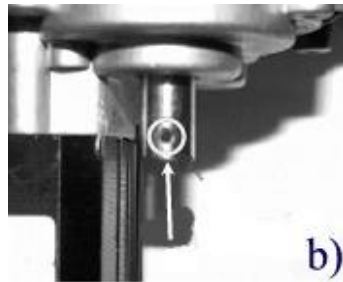
After removing the back and side panels, you can see the breakdown trying to lift the ring that fix the vertical auger (item 14 of the exploded view at pag.34).

It can happen that it is blocked or that, if you lift it, it carries away the transmission shaft with it (item 15 of the exploded view at pag.34)

In the first case, it is necessary to control that the transmission shaft base is as high as the gear motor (exit shaft). The lift pin could be in the hole of the gear motor slow shaft but it should be deformed or broken (see pic.a)



In the second case, the hole in the gear motor should be completely empty (see pic.b) and some remnants of the split pin will certainly lie in the machine.

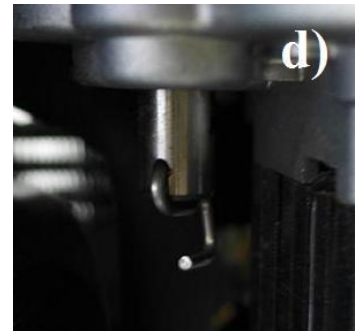
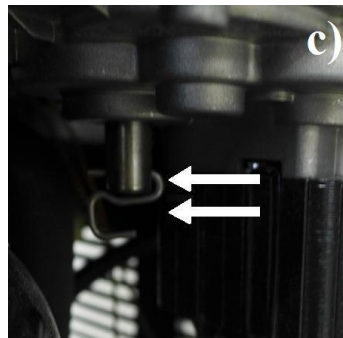


It is therefore necessary to install a new split pin.

- Place the transmission shaft so as its hole is aligned with the one present on the gear motor exit shaft; it should be evident when they are aligned (see pic.b);









- Insert the split pin as shown in the pic.c and d;



- Verify that the head of the split pin, in its rotation, does not touch the gear motor and respects a minimum distance.

**Warning:** do not reuse, in any case, the old split pin;

# Problem Solving Big Biz

|  |   |   |
|--|---|---|
| <p>On the electronic board the leds on the number "1" and slush mode blinks.</p>   | <p>Verify that the cable connecting the electronic board to the gear motor magnetic revolution counter is firmly fixed to both elements. In case it needs to be substituted: disconnect the two connectors of the old cable both from the reader and the electronic board; place the new cable with some insulating tape or a small band on the existent electric installation.</p>   |  Disconnect the power electric cable   |
| <p>On the electronic board the led on the number "2" blinks.</p>   | <p>Replace the cable that connects the thermostat probe to the electronic board verifying that there is not oxide on it; if so, clean the contacts and if the problem still exists, it is necessary to substitute the thermostat probe.</p>   |  Disconnect the power electric cable   |
| <p>On the electronic board the led below the cold drink mode indicator blinks</p>  | <p>The defrost timer is active. In order to deactivate it, or to change the settings, see the instructions.</p>   |  Disconnect the power electric cable   |
| <p>The tank does not make cold, the cooling light is off</p>  | <ul style="list-style-type: none"> <li>• Switch off the slush machine with the main switch;</li> <li>• discharge the product, if it is cold, and put in the tank a product with a temperature higher than 15°C;</li> <li>• wait 5 minutes at least and switch on the machine again;</li> <li>• select on the electronic board the slush mode;</li> <li>• The electronics calibration is automatic and the status will be displayed on the electronic board by the blink of led 3. The blink will stop when the calibration will be finished.</li> </ul> |   |
| <p>The augers do not turn in the tank and the electronic board does not work properly.</p>   | <p>The cotter pin (item 35 of the exploded view) broke down. For the cotter pin substitution procedure see pag.18</p>   |  Disconnect the power electric cable |
| <p>During the augers rotation you can hear a creaking.</p>   | <p>This noise derives from the vertical and horizontal augers gears. You can avoid this by simply go on using the machine or putting some <b>Vaseline</b> on the plastic gears.</p>   |   |
| <p>The machine does not make cold and the slush led, cold drink led and led 1 blink on the electronic board.</p>                               | <p>The pressure switch intervened. In order to refit it see pag.17</p>  |  Disconnect the power electric cable |
| <p>To the ignition of the machine in slush mode start to blink the led on the number "3"</p>   | <p>To the ignition of the machine the electronic board, if the product temperature is higher than 5°C, start with calibration procedure. Totally it will last 2 minutes, and for all this period of time the led 3 will blink</p>   |   |

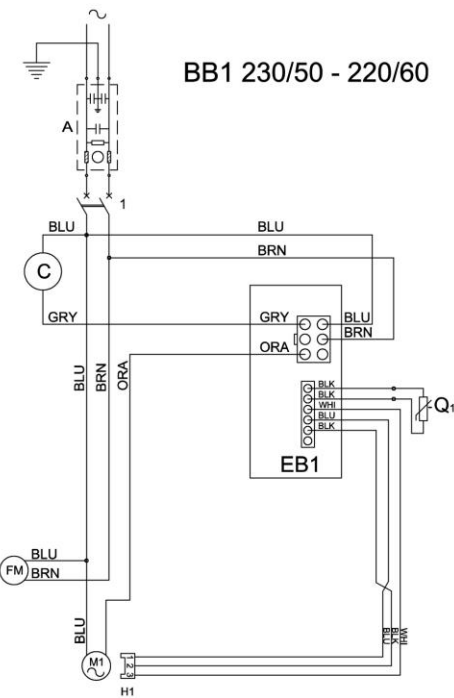
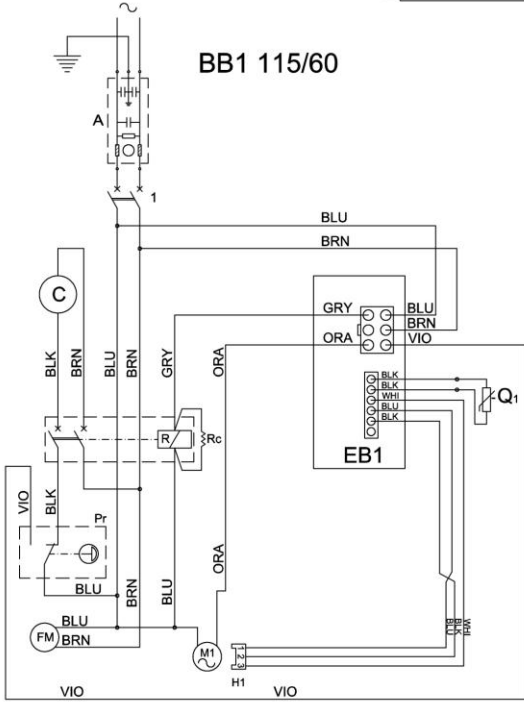
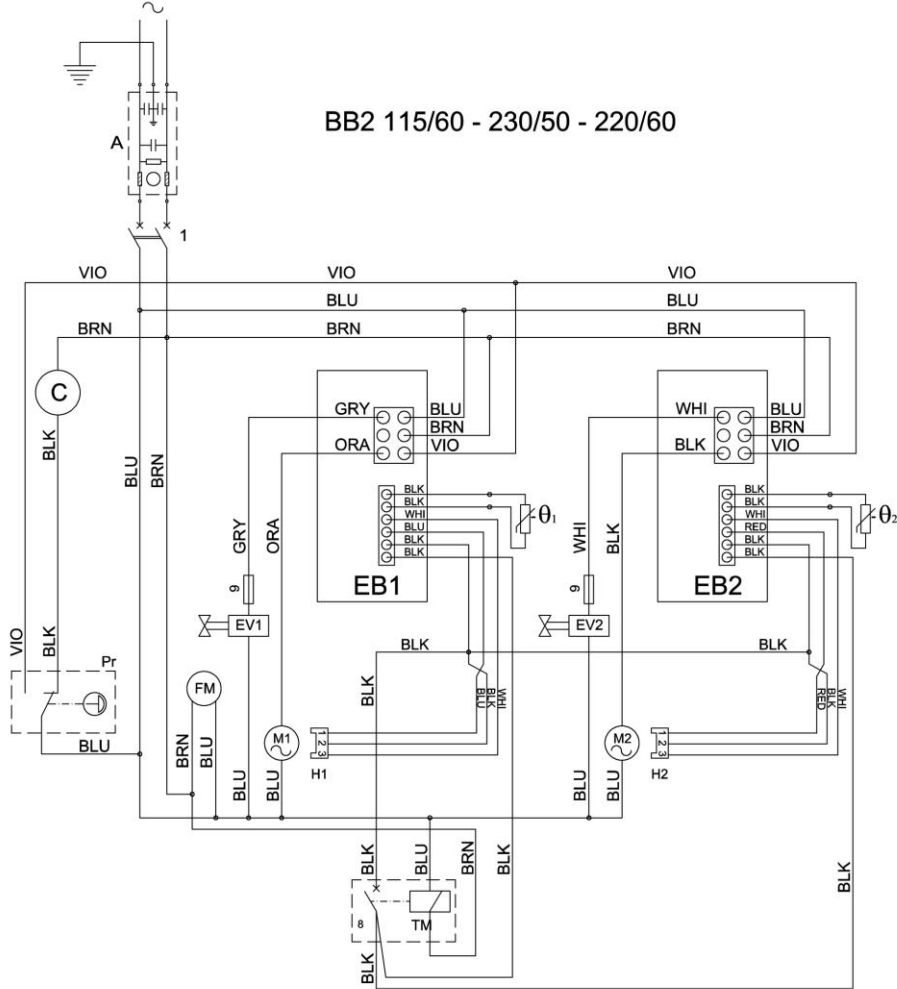


**APPENDICE**

**APPENDIX**

**APÉNDICE**

|                    |                 |                       |          |                         |
|--------------------|-----------------|-----------------------|----------|-------------------------|
| Impianto Elettrico | Electric System | Instalación Eléctrica | Elektrik | Installation Electrique |
|--------------------|-----------------|-----------------------|----------|-------------------------|



**I**

**1:** Interruttore generale  
**A:** Filtro antidisturbo (opzionale \_ solo 230V/50Hz)  
**Pr:** Pressostato  
**R:** Rele  
**Rc:** Resistore ceramico 15K7W  
**C:** Compressore  
**FM:** Motoventilatore  
**9:** Fusibile 5x20 mm F315mA  
**EVx:** Elettrovalvola  
**Mx:** Motoriduttore  
**EBx:** Modulo elettronico  
**Ox:** Lettore magnetico  
**qx:** Termostato  
**TM:** Timer (Opzionale)  
**8:** Interruttore timer

**Colori**

**BRN** Marrone  
**BLU** Blu  
**GRN** Giallo-Verde  
**RED** Rosso  
**BLK** Nero  
**WHI** Bianco  
**GRY** Grigio  
**VIO** Viola  
**ORA** Arancione

**GB**

**1:** Main switch  
**A:** Suppressor filter (optional \_ only 230V/50Hz)  
**Pr:** Pressure switch  
**R:** Relais  
**Rc:** Ceramic resistor 15K7W  
**C:** Compressor  
**FM:** Fan motor  
**9:** Fuse 5x20 mm F315mA  
**EVx:** Solenoid valve  
**Mx:** Gear motor  
**EBx:** Electronic board  
**Ox:** Magnetic reader  
**qx:** Thermostat  
**TM:** Timer (Optional)  
**8:** Timer switch

**Colors**

**BRN** Brown  
**BLU** Blue  
**GRN** Yellow-Green  
**RED** Red  
**BLK** Black  
**WHI** White  
**GRY** Grey  
**VIO** Purple  
**ORA** Orange

**E**

**1:** Interruptor general  
**A:** Filtro antiparásito (opcional \_ sólo 230V/50Hz)  
**Pr:** Presóstato  
**R:** Rele  
**Rc:** resistencia de cerámica 15K/W  
**C:** Compresor  
**FM:** Motoventilador  
**9:** Fusible 5x20 mm F315mA  
**EVx:** Electroválvula  
**Mx:** Motorreductor  
**EBx:** Módulo electrónico  
**Ox:** Lector magnético  
**qx:** Termostato  
**TM:** Temporizador (Opcional)  
**8:** Interruptor temporizador

**Colores**

**BRN** Marrón  
**BLU** Azul  
**GRN** Amarillo-Verde  
**RED** Rojo  
**BLK** Negro  
**WHI** Blan  
**GRY** Gris  
**VIO** Violeta  
**ORA** Naranja

**D**

**1:** Hauptschalter  
**A:** Entstörfilter (Option \_ 230V/50Hz)  
**Pr:** Druckwächter  
**R:** Reke  
**Rc:** Keramik-Widerstand 15K7W  
**C:** Kompressor  
**FM:** Belüftungsmotor  
**9:** Schmelzsicherung 5x20 mm F315mA  
**EVx:** Elektroventil  
**Mx:** Getriebemotor  
**EBx:** Elektronisches Modul  
**Ox:** Magnetisch Leser  
**qx:** Thermostat  
**TM:** Timer (Option)  
**8:** Timer-Taste

**Farben**

**BRN** Braun  
**BLU** Blau  
**GRN** Gelb-Grün  
**RED** Rot  
**BLK** Schwarz  
**WHI** Weiß  
**GRY** Grau  
**VIO** Violett  
**ORA** Orange

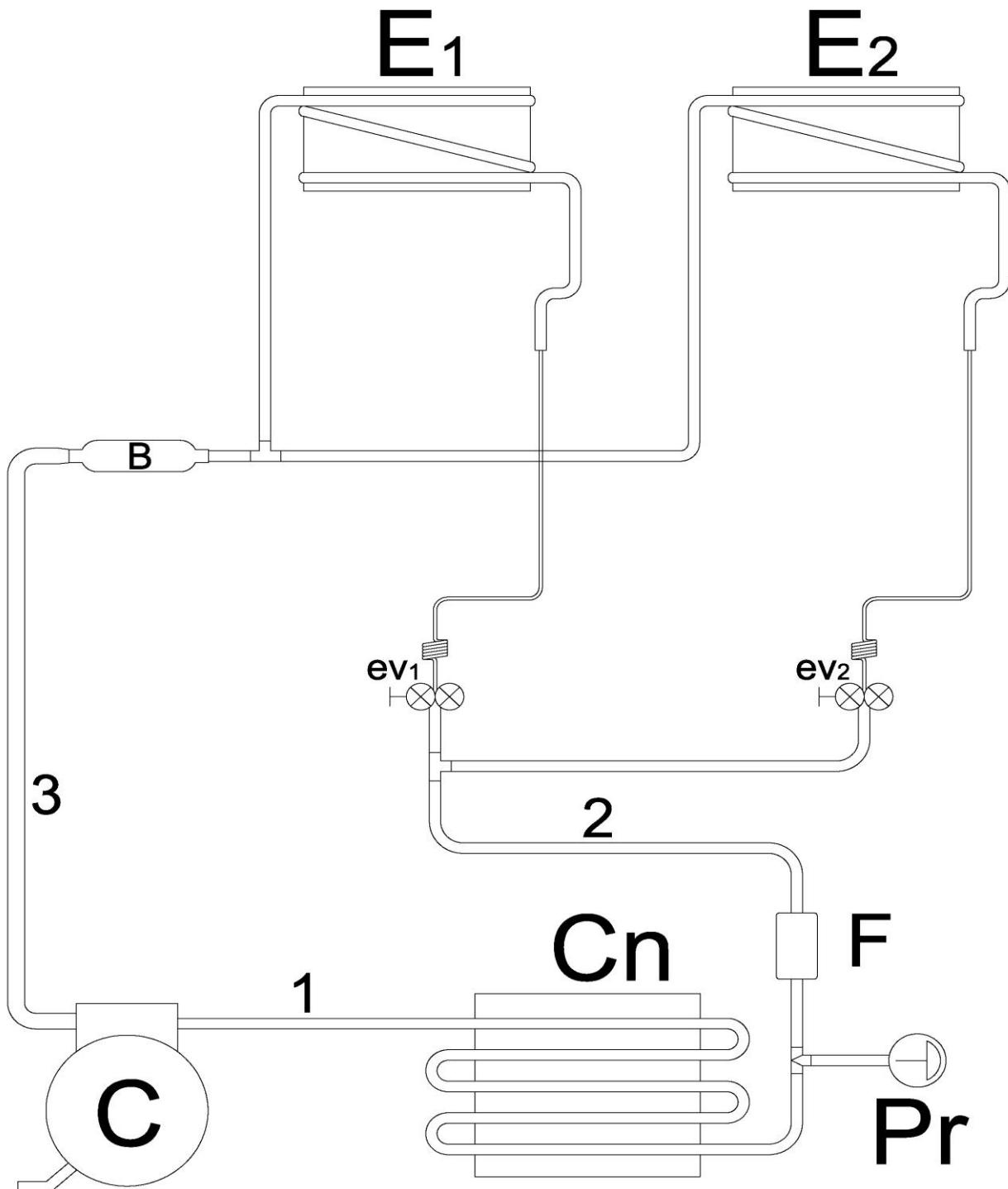
**F**

**1:** Interrupteur général  
**A:** Filtre antiparasites (en option \_ 230V/50Hz)  
**Pr:** Pressostat  
**R:** Rele  
**Rc:** résistance en céramique 15K7W  
**C:** Compresseur  
**FM:** Motoventilateur  
**9:** Fusible 5x20 mm F315mA  
**EVx:** Électrovanne  
**Mx:** Motoréducteur  
**EBx:** Module électronique  
**Ox:** Lecteur magnétique  
**qx:** Thermostat  
**TM:** Temporisateur (en option)  
**8:** Interrupteur temporisateur

**Couleurs**

**BRN** Brun  
**BLU** Bleu foncé  
**GRN** Jaune-Vert  
**RED** Rouge  
**BLK** Noir  
**WHI** Blanc  
**GRY** Gris  
**VIO** Violet  
**ORA** Orange

|                      |                      |                     |            |                           |
|----------------------|----------------------|---------------------|------------|---------------------------|
| Impianto Frigorifero | Refrigerating System | Aparato Frigorífico | Kühlanlage | Installation Frigorifique |
|----------------------|----------------------|---------------------|------------|---------------------------|



**I**

**C:**Compressore  
**Cn:**Condensatore  
**F:**Filtro  
 deidratatore  
**B:**Boiler  
**evx:**Elettrovalvola  
  
**Ex:**Evaporatore  
**1:**Linea scarico  
  
**2:**Linea liquido  
**3:**Linea  
 aspirazione  
**Pr:**Pressostato

**GB**

**C:**Compressor  
**Cn:**Condenser  
**F:**Dryer  
 filter  
**B:**Accumulator  
**evx:**Solenoid  
 valve  
  
**Ex:**Evaporator  
**1:**Discharge line  
  
**2:**Liquid line  
**3:**Suction line  
  
**Pr:**Pressure  
 switch

**E**

**C:**Compresor  
**Cn:**Condensador  
**F:**Filtro  
 deshidratante  
**B:**Boiler  
**evx:**Electroválvula  
  
**Ex:**Evaporador  
**1:**Línea descarga  
  
**2:**Línea líquido  
**3:**Línea aspiración  
  
**Pr:**Presóstato

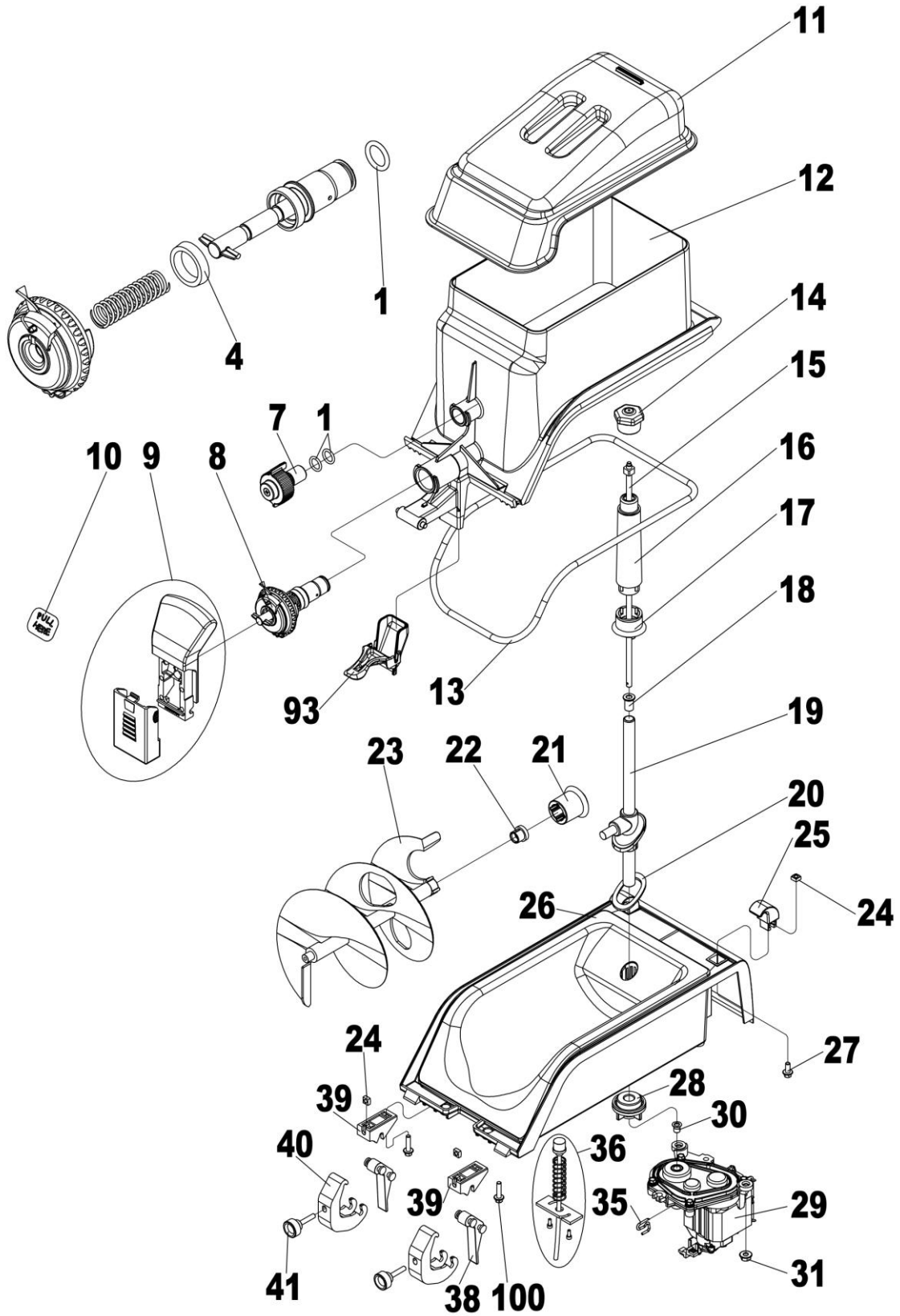
**D**

**C:**Kompressor  
**Cn:**Kondensator  
**F:**Trockenfilter  
  
**B:**Boiler  
**evx:**Elektroventil  
  
**Ex:**Verdampfer  
**1:**Abflussleitung  
  
**2:**Flüssigkeitsleitung  
**3:**Ansaugleitung  
  
**Pr:**Druckwächter

**F**

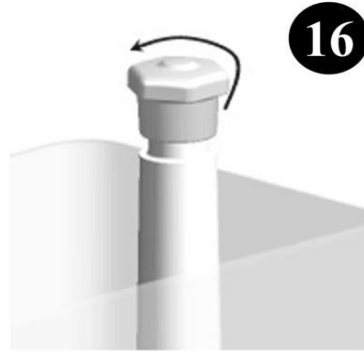
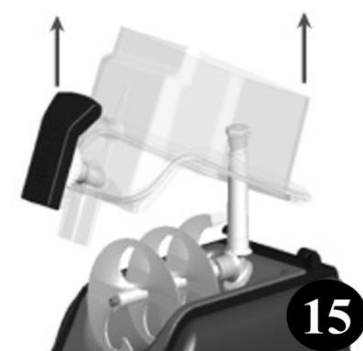
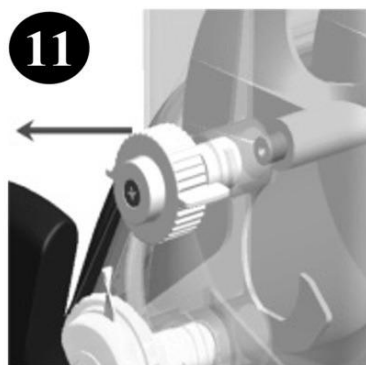
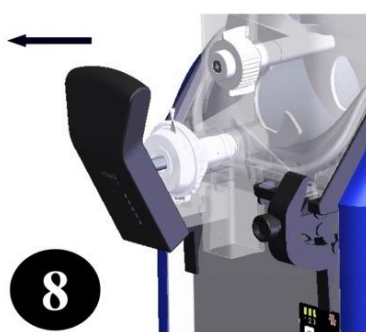
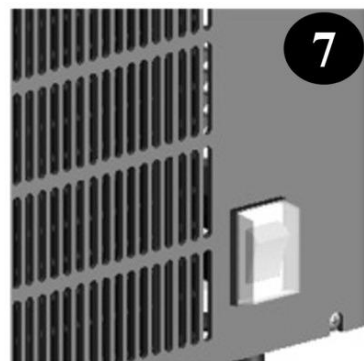
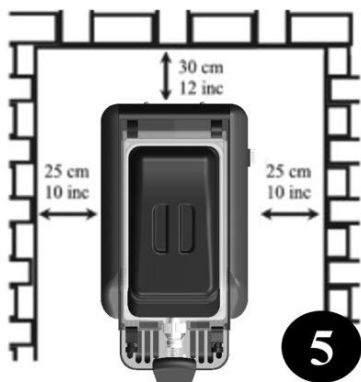
**C:**Compresseur  
**Cn:**Condensateur  
**F:**Filtre  
 déshydrateur  
**B:**Ballon  
**evx:**Électrovanne  
  
**Ex:**Évaporateur  
**1:**Ligne  
 évacuation  
  
**2:**Ligne liquide  
**3:**Ligne aspiration  
  
**Pr:**Pressostat

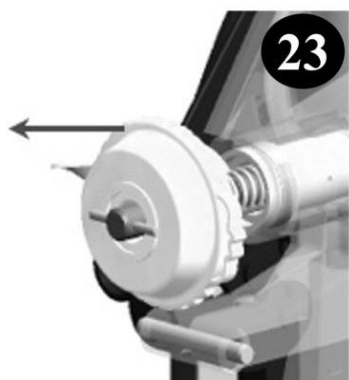
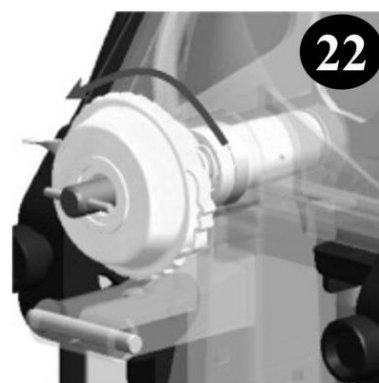
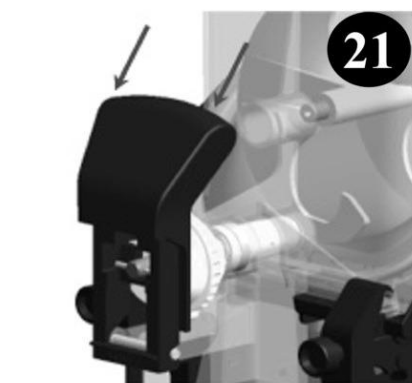
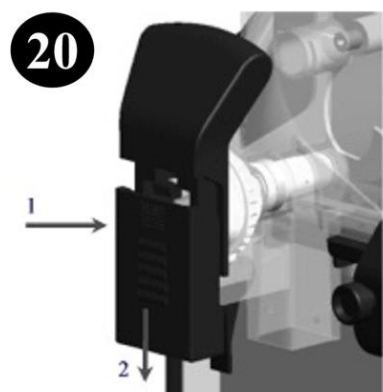
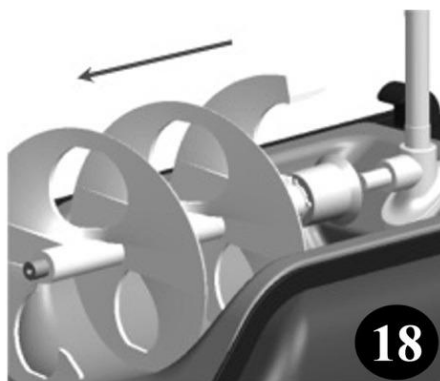
| Esploso | Exploded View | Despiece | Explosions Darstellung | Vues éclatées |
|---------|---------------|----------|------------------------|---------------|
|---------|---------------|----------|------------------------|---------------|




**I**
**GB**
**E**

| #   | CODICI/CODES/CODIGO | DESCRIZIONE  | DESCRIPTION                                       | DESCRIPCIÓN  |
|-----|---------------------|--|---|--|
| 1   | OR13000117          | O-RING 117 SILICONE                                      | O-RING 117  | JUNTA TÓRICA 117 SILICONA  |
| 4   | M0003117-001        | GUARNIZIONE GOLA RUBINETTO SILICONE                      | OUTLET BACK GASKET                                | JUNTA SILICONA PISTÓN GRIFO                                      |
| 7   | M0004109-002        | ASSIEME GHIERA-MANICOTTO FC                              | RING NUT HORIZONTAL AUGER                         | CONJUNTO ABRAZADERA-MANGUITO                                     |
| 8   | M0003126-001        | ASSIEME GHIERA-LEVETTA CON PISTONE + ASTINA ACCIAIO INOX | RING NUT LEVER COVER PISTON + STAINLESS STEEL ROD | CONJUNTO ABRAZADERA-PALANCA-CON PISTÓN + EJE DE ACERO INOXIDABLE |
| 8   | M0003126-003        | ASSIEME GHIERA-LEVETTA CON PISTONE + ASTINA IN PLASTICA  | RING NUT LEVER COVER PISTON + PLASTIC ROD         | CONJUNTO ABRAZADERA-PALANCA-CON PISTÓN + EJE DE PLÁSTICO         |
| 9   | M0003139-001        | ASSIEME LEVA+COPERCHIO NERO                              | COMPLETE BLACK HANDLE AND COVER                   | PALANCA + TAPA DESCARGA NEGRA                                    |
| 10  | A0006111-001        | ADESIVO "PULL HERE"                                      | "PULL HERE" STICKER                               | ADHESIVO "PULL HERE"   |
| 11  | L0006104-003        | CUPOLA TRASPARENTE                                       | TRANSPARENT TOP LIGHT                             | TAPA DEPÓSITO TRASPARENTE  |
| 12  | L0000115-002        | VASCA TRASPARENTE COMPLETA DI SPINA                      | TRANSPARENT TANK COMPLETE OF PIN DRAIN LEVER      | DEPÓSITO TRASPARENTE COMPLETO CON ESPITA                         |
| 13  | L0000106-001        | GUARNIZIONE PER VASCA                                    | GASKET TRANSPARENT TANK                           | JUNTA PARA DEPÓSITO  |
| 14  | M0000107-001        | GHIERA FISSAGGIO ELICA VERTICALE                         | RING NUT VERTICAL PROPELLER                       | ABRAZADERA FIJACIÓN PALA VERTICAL                                |
| 15  | L0000104-001        | ALBERO TRASMISSIONE CON DADO                             | TRANSMISSION SHAFT WITH NUT                       | EJE TRANSMISIÓN CON ROSCA  |
| 16  | L0004104-001        | ELICA VERTICALE COMPLETA DI BOCCOLA INOX                 | VERTICAL AUGER COMPLETE OF BUSHING                | PALA VERTICAL COMPLETA CON CASQUILLO INOX                        |
| 17  | M0004104-002        | PIGNONE ELICA VERTICALE                                  | VERTICAL AUGER GEAR                               | PIÑÓN PALA VERTICAL  |
| 18  | M0000104-001        | BOCCOLA CANOTTO TRASMISSIONE                             | BUSHING TRANSMISSION SHAFT                        | CASQUILLO ÁRBOL TRANSMISIÓN                                      |
| 19  | L0000108-003        | CANOTTO TRASMISSIONE CON BOCCOLA                         | TRANSMISSION SHAFT WITH SLEEVE                    | ÁRBOL DE TRANSMISIÓN CON CASQUILLO                               |
| 20  | A0000114-001        | GUARNIZIONE CANOTTO TRASMISSIONE                         | TRANSMISSION SHAFT GASKET                         | JUNTA ÁRBOL TRANSMISIÓN  |
| 21  | M0004105-002        | PIGNONE ELICA ORIZZONTALE                                | HORIZONTAL AUGER GEAR                             | PIÑÓN PALA HORIZONTAL  |
| 22  | M0004102-002        | BOCCOLA ELICA ORIZZONTALE                                | HORIZONTAL AUGER BUSHING                          | CASQUILLO PALA HORIZONTAL  |
| 23  | L0004103-002        | ELICA ORIZZONTALE COMPLETA DI BOCCOLA                    | HORIZONTAL AUGER COMPLETE OF BUSHING              | PALA HORIZONTAL COMPLETA CON CASQUILLO                           |
| 24  | M0000120-001        | DADO QUADRO M5 ZINCATO                                   | M5 SQUARE NUT                                     | TUERCA CUADRADA M5 GALVANIZADA                                   |
| 25  | M0006103-003        | CERNIERA POSTERIORE NERO                                 | BLACK REAR HINGE                                  | BISAGRA POSTERIOR NEGRA  |
| 26  | L0002113-004        | ASSIEME VASCA COMPLETA NERO                              | BLACK COMPLETE INOX TANK                          | CONJUNTO EVAPORADOR COMPLETO NEGRO                               |
| 27  | M0001101-001        | VITE TE FLANGIATA M5X12MM                                | SCREW TE 5X12MM                                   | TORNILLO FIJACIÓN S. BISAGRA M5X12MM                             |
| 28  | M0000105-001        | GHIERO FISSAGGIO CANOTTO                                 | RING NUT SHAFT FASTENING                          | ABRAZADERA FIJACIÓN ÁRBOL  |
| 29  | M0005139-001        | ASSIEME MOTORIDUTTORE CON CELLA DI HALL                  | COMPLETE GEAR MOTOR WITH HALL SENSOR              | CONJUNTO MOTORREDUTTORA CON CELDA DE HALL                        |
| 30  | A0000117-001        | BOCCOLA CENTRAGGIO MOTORIDUTTORE / ALBERO                | GEAR MOTOR BUSHING                                | CASQUILLO DE CENTRADO DEL MOTORREDUCTOR / EJE                    |
| 35  | A0001104-001        | SPINA MOTORIDUTTORE/ALBERO TRASMISSIONE                  | GEARMOTOR/TRANSMISSION SHAFT PIN                  | TOMA DEL MOTORREDUCTOR / EJE DE TRANSMISIÓN                      |
| 36  | M0000157-002        | SONDA TERMOSTATO ELETTRONICO                             | ELECTRONIC THERMOSTAT PROBE                       | SONDA TERMOSTATO ELECTRÓNICO                                     |
| 38  | M0006115-003        | CERNIERA ANTERIORE NERO                                  | BLACK FRONT HINGE                                 | BISAGRA ANTERIOR NEGRA   |
| 39  | M0006116-003        | BASE NERO  | BLACK BASE  | BASE NEGRA   |
| 40  | M0006102-003        | GANCIO CERNIERA NERO                                     | BLACK HINGE HOOK                                  | GANCHO BISAGRA NEGRO   |
| 41  | M0006119-001        | MANOPOLA FISSAGGIO GANCI M5X25mm                         | LOCKING BOLT                                      | TORNILLO FIJACIÓN GANCHO M5X25mm                                 |
| 93  | L0003101-002        | RIDUTTORE BIBITA FREDDA BB                               | ADAPTER FOR COLD DRINK                            | ADAPTADOR DE BEBIDA FRÍA BB                                      |
| 100 | A0000115-001        | VITE TE FLANGIATA M5X20MM                                | SCREW TE M5X20MM                                  | TORNILLO FIJACIÓN S. BISAGRA M5X20MM                             |







## DICHIARAZIONE DI CONFORMITÀ DECLARATION OF CONFORMITY

In accordo con la Direttiva 93/68/CEE in materia di marcatura CE, con la Direttiva Bassa Tensione 72/23/CEE e con la Direttiva 89/336/CEE (Compatibilità Elettromagnetica) integrata dalle Direttive 92/31/CEE, 93/68/CEE e 93/97/CEE.  
*According to the CE marking Directive 93/68/EEC, to the Low Voltage Directive 72/23/EEC AND the EMC Directive 89/336/EEC integrated from the Directives 92/31/EEC, 93/68/EEC and 93/97/EEC.*

Tipo di apparecchio - *Type of equipment* : GRANITORE – SLUSH MACHINE

Marchio Commerciale - *Trademark* ELMECO

Modello - *Type designation* BIG BIZ

Costruttore - *Manufacturer* ELMECO

Indirizzo - *Address* VIA CIRCUMVALLAZIONE ESTERNA N. 12 80025 CASANDRINO (NA)

Telefono n° - *Telephone no.* 0039/081/5055724 - 5057068 - 5054028

Telefax n° - *Telefax no.* 0039/081/5055726

Le norme armonizzate o le specifiche tecniche (designazioni) che sono state applicate in accordo con le regole della buona arte in materia di sicurezza in vigore nella CEE sono:

*The following harmonized standards or technical specifications (designations) which comply with good engineering practice in safety matters in force within the EEC have been applied:*

Norme o altri documenti normativi  
*standards or other normative documents*

Rapporto di collaudo - Schede Tecniche  
*Test report - Technical file*

EN 60335-1:2002  
EN 60335-2-24:1994  
EN 61000-3-2:2000  
EN 61000-3-3:1995+A1:2001

### Informazioni ulteriori *Additional information*

In qualità di costruttore e/o rappresentante autorizzato dalla società all'interno della CEE, si dichiara sotto la propria responsabilità che gli apparecchi sono conformi alle esigenze essenziali previste dalle Direttive su menzionate.  
*As the manufacturer's authorized established within ECC, We declare under our sole responsibility that the equipment follows the provisions of the directive states above.*

Data e luogo di emissione  
*Date and place of issue*

Nome e firma di persona autorizzata  
*Name and signature of authorized person*

*Name and signature of authorized person*

Sig. UMBERTO CORTESI

NAPOLI  
NAPLES

### RUMOROSITÀ - NOISINESS - GERAUSCHPEGEL - BRUIT - RUIDOSO

Modello - Model - Muster - Modèle - Muestra

**BB1 ≤ 57.0 DBA**

**BB2 ≤ 60.5 DBA**



## ELMECO PRODUCT WARRANTY IN THE U.S.A. AND CANADA

New machines that have been manufactured by Elmeco SRL Italy and all parts thereof are conditionally warranted to the original user by Elmeco SRL to be free from defects in material and workmanship under normal use

### SERVICE AS FOLLOWS:

Freezer / Slush Machine and all components unless specified below—  
2 years parts, 1 year labor (proof of purchase and serial number required), Compressor- 5 years parts, Electronic board - 3 years parts

During the warranty period, Elmeco at its option and after inspection, repair or replace defective unit with no charge for parts or bench labour. This warranty excludes plastic parts, rubber gaskets or any other wear items. This warranty

period starts from the date of purchase (proof of purchase required).

Bench labour does not include service agent's travel time, or cost of shipping to and from the service station.

The buyer shall give prompt notice to Elmeco SRL for any claim to be made under warranty via telephone at **1-877-4ELMECO (1-877-435-6326)**.

Customer support will diagnose problem over phone and upon request of Elmeco, the defective parts/equipment shall be shipped prepaid to Elmeco.

### WHAT IS NOT COVERED:

- WARRANTY DOES NOT APPLY TO MACHINES OR ANY PARTS WHICH HAVE BEEN SUBJECT TO ANY ACCIDENT, MISUSE, NEGLIGENCE, ALTERATION,
- USE ON INCORRECT VOLTAGE, IMPROPER VENTILATION, DAMAGE CAUSED IN TRANSIT, IMPROPER INSTALLATION OR OPERATION,
- IMPROPER MAINTENANCE OR REPAIR, FIRE, FLOOD OR ACTS OF GOD
- THIS WARRANTY DOES NOT COVER NORMAL PREVENTIVE MAINTENANCE AND CLEANING SUCH AS, BUT NOT LIMITED TO, CONDENSER CLEANING, HIGH PRESSURE SWITCH RESET, COTTER PIN REPLACEMENT, O-RINGS, SEALS OR LIGHT BULB REPLACEMENT.
- THIS WARRANTY DOES NOT COVER PLASTIC PARTS, RUBBER PARTS OR ANY OTHER WEAR ITEMS
- THIS WARRANTY DOES NOT COVER ANY SEALED SYSTEM THAT HAS BEEN BROKEN INTO (EX. GEAR MOTOR, COMPRESSOR)
- THIS WARRANTY DOES NOT COVER ANY PART OR ASSEMBLY THAT HAS BEEN ALTERED, MODIFIED OR CHANGED
- THIS WARRANTY DOES NOT COVER UNIT WHOSE REFRIGERATION SYSTEM IS MODIFIED
- THIS WARRANTY DOES NOT COVER THE COSTS OF REPAIRS MADE OR ATTEMPTED BY ANYONE WITHOUT PRIOR AUTHORIZATION BY ELMECO SRL OR ITS AUTHORIZED PARTNERS SERVICE DEPARTMENT
- THIS WARRANTY DOES NOT COVER MACHINE MAINTAINED WITHOUT THE REQUIRED AIR CLEARANCE ON ALL SIDES, OR LOCATED IN CLOSE PROXIMITY TO HEAT PRODUCING OR POWDER EQUIPMENT
- THIS WARRANTY DOES NOT COVER UNIT OR PART FAILURE CAUSED BY WATER CONDITIONS
- THIS WARRANTY DOES NOT COVER TEMPORARY NON-FUNCTIONING CONDITIONS WHICH CAN OCCUR WITH NORMAL USE AND WHICH CAN BE READILY REMEDIED BY THE USER BY REFERRING TO THE USERS INSTRUCTIONS OR CALLING ELMECO OR ITS AUTHORIZED PARTNERS.

The model and serial number shall be supplied to the service department of Elmeco along with the defective parts or unit.

**Please Note: Warranty only valid when warranty registration card is sent in and processed .**

The dealers, distributors, employees and agents of **Elmeco srl** are not authorized to modify this warranty neither written nor oral or to add warranties that are binding to **Elmeco srl**.

### Elmeco srl

Via Circumvallazione Est. 12  
Casandrino (NA) 80025, Italy  
Tel: 0039 081 5055724

### Elmeco srl American Branch Office

6047 Tyvola Glen Circle  
Charlotte, NC 28217 U.S.A.  
Tel# (877) 435-6326, Fax# (704) 666-5141

**Timer setup (BB2 optional)**

**Operating Instructions for built-in electronic timers**

**1 Channel set-up**



**Safety instructions**

**Please note:**

- Main connection 115 or 220-240 V~ / 50-60 Hz !
- Always turn power off and ensure there is no voltage !
- 115 or 220-240V~ is life threatening !

Installation should only be undertaken by a competent electrician or other qualified person!

**Control and display elements**

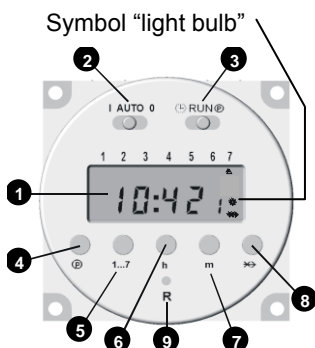


Fig 1: Operating and Display Elements 1 Channel set-up

- 1 Display with Time and Switch Points.
- 2 Sliding switches to set operating mode:  
**AUTO:** Switches on and off in accordance with programmed switch times  
**I:** Permanently ON  
**O:** Permanently OFF
- 3 Sliding switches to set Time and Switch Times:  
**RUN :** Switch program and clock run  
 ⌚ : Set current time  
 P : Input switch times

General information for buttons (4), 1..7 (5), h (6) and m (7):

Short pressing of these buttons gives: counting up by 1 digit.  
 Pressing for longer than 3 seconds effects: more rapid and continuous counting up.

- 4 P : Button for programming the 16 switch points;  
 When time switch points 1, 3, 5, 7, 9, 11, 13, 15 (activate time points) are selected, the symbol \* will appear in the right of the display.  
 If time switch points 2, 4, 6, 8, 10, 12, 14, 16 (switch off time points) are selected, there will be no symbol.

- 5 1..7: Button to input the day of the week (current day and daily switch). When programming timing points and individual days the following block day programmer are also possible:  
**1..5 (Monday to Friday)**  
**1..6 (Monday to Saturday)**  
**6..7 (Saturday to Sunday)**  
**1..7 (Monday to Sunday)**

- 6 h : Button to input hours (for current time and switching time).
- 7 m : Button to input minutes (for current time and switching time).

8 X->: Skip function:  
 Pressing the Skip-button 'X->' results in the fitted timer reverting to the opposite function mode.  
 For example: *If the timer is in „switched on“ mode, it will be immediately switched off and vice-versa.*

- 9 R : Reset button will delete all switching times and current time of day.

**Reset**

Before the first commissioning / programming a Reset must be carried out:

1. Ensure that sliding switch 3 is in the RUN position.
2. Press button R (9) with the point of a biro or similar implement.

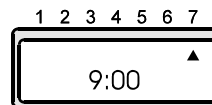
The Display will start to flash 0:00.

**Setting the time and day**

1. For 1 channel set-up:  
 Set the sliding switch 3 to position ⌚
2. Press button 1..7 (5) to input the day of the week (1 = Monday, 7 =

Sunday). An arrow will be seen in the Display indicating the day of the week.

- 3. Use buttons h (6) and m (7) to set the time.



- 4. For 1 Channel set-up: Set sliding switch 3 to the RUN position. The time of day will be activated.

*The time of day will be activated immediately.*

**Permanently ON, permanently OFF, AUTO**

To set these functions ensure that sliding switch 3 is in the RUN position.

|   | 1 Channel   |
|---|---|
| <b>Permanently ON</b><br>The appliance(s) connected is(are) permanently switched on   | <ul style="list-style-type: none"> <li>• Set sliding switch 3 to position I.</li> <li>• The symbol * shows in Display.</li> </ul>   |
| <b>Permanently OFF</b><br>The appliance(s) connected is(are) permanently switched off | <ul style="list-style-type: none"> <li>• Set sliding switch 3 to position O.</li> <li>• The symbol * is extinguished.</li> </ul>  |
| <b>AUTO</b><br>The appliance(s) connected switch according to a pre-set programmer    | <ul style="list-style-type: none"> <li>• Set sliding switch 3 to position AUTO.</li> <li>• ON Mode: symbol * appears.</li> <li>• OFF Mode: symbol * is extinguished.</li> </ul> |

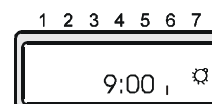
**Programming Switching Times**

Each Channel has 16 programmable Switching Points (8 x ON, 8 x OFF):  
 Nos. 1, 3, 5, 7, 9, 11, 13, 15 are Switch ON points (symbol \*).

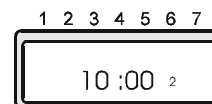
Nos. 2, 4, 6, 8, 10, 12, 14, 16 are Switch OFF points (no symbol).

The Switch Time selected will be indicated by a number in the lower right of the Display and the symbol \*.

**1 Channel set-up**



ON



OFF

**Please note when programming:**

Each switch on point is closely linked to the following switch off point.

They should always be programmed in pairs to avoid errors.

Attention: The shortest possible switching interval is 1 minute!

**Proceed as follows:**

1. For 1 Channel set-up: Set sliding switch ② to position (P).  
The first switch point (switch on) is displayed.
2. Press button 1...7 (⑤) to input the day of the week (1=Monday, 7=Sunday) or blocks of days.  
Continuous pressing of this button allows you to select individual days and the following blocks of days:  
1 to 5                      1 to 7  
1 to 6                      6 to 7  
Arrows in the Display indicate days of the week.
3. Press buttons h (⑥) and m (⑦) to set the time.
4. Press button (P) (④):  
The next switch point (switch off) is displayed.
5. Repeat steps 2 to 4 as often as required.
6. After setting the desired switching times: Set sliding switch ② to position **AUTO** and sliding switch ③ to position **RUN**.  
The timer will now operate according to the programmed switching times.

**Checking, changing and deleting switching times**

Set sliding switch ② to position (P).

1. **Checking:**  
Press button (P) as often as necessary to show the desired switching point in the Display.
2. **Changing:**  
Use button (P) to flag up the desired modified location.  
Press buttons 1...7 (⑤) to change the day of the week.  
Press buttons h (⑥) and m (⑦) to change the switching time, as described earlier.
3. **Deleting:**  
Use button (P) to flag up the desired modified location.  
Then press button "-X->" (⑧) and button (P) (④) simultaneously for 3-4 seconds.

The Display will show a flashing 0:00 and the switching point is deleted.  
If the check, change or deletion is complete set the sliding switch ② back to position RUN.

**-X-> Skip Function (soft-override)**

The Skip Function changes the switching mode of the appliance connected until the next step of program is reached.  
For instance: if the appliance is in ON mode, pressing the Skip-button (-X->) will immediately turn it OFF and vice-versa.

1. Set sliding switch ② to position RUN.
2. Press the Skip button (-X->).  
The appliance will change over to the opposite switching mode.  
The Skip symbol (-X->) show up in the Display (wait 3-4 seconds).
3. Further pressing of the Skip button (-X->) brings up the Skip Function again.

**Please note in connection with the Skip Function:**

- Display of the number and the symbol occurs after a lapse of about 3 seconds.
- The Skip Function only operates until the next programmed switch time is reached. At this point the Skip Function is deleted and the programmed switch time cycles are activated again.

**Programming Errors**

Every switch on point is closely linked to the following switch off point. Therefore the following combinations of on/off switching can, for example, lead to errors.

Possible sources of errors are:

|    | Switch ON Time   | Switch OFF Time   |
|----|--|---|
| a) | Switch ON time programmed  | No setting  |
| b) | No setting   | Switch OFF time programmed  |
| c) | Day block (e.g. 1, 2, 3, 4, 5)   | Different day block (e.g. 1, 2, 3, 4, 5, 6)   |
| d) | Day block  | Week day  |
| e) | Switch ON time programmed (e.g. Wednesday, 09:00)                      | Switch OFF time is <i>before</i> the switch ON time on the same day (e.g. Wednesday, 08:59) |
| f) | ON and OFF switch times occur at the same time (e.g. Wednesday, 09:00) |   |

**ITA**

Il macchinario è fornito con un nuovo corredo "Riduttore per bibita fredda". L'utilizzo di questo particolare è consigliato nel caso in cui si eroghi bibita fredda o quando si lava il contenitore con acqua o detersivi simili. Nelle immagini sottostanti la sequenza di montaggio e smontaggio del riduttore dal contenitore trasparente. Si sconsiglia vivamente l'utilizzo del riduttore con prodotti quali creme o granite.

**ATTENZIONE! È SCONSIGLIATO L'USO DEL RIDUTTORE CON PRODOTTI QUALI CREME O GRANITE!**

**ENG**

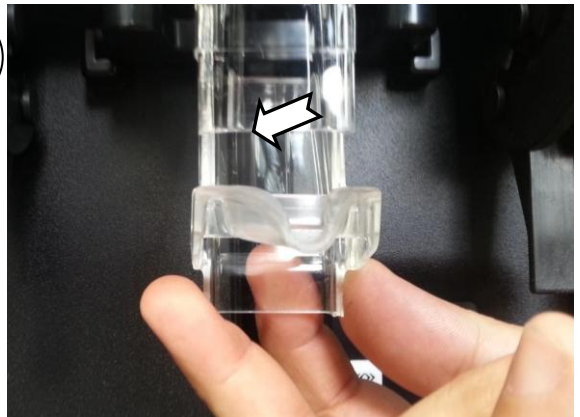
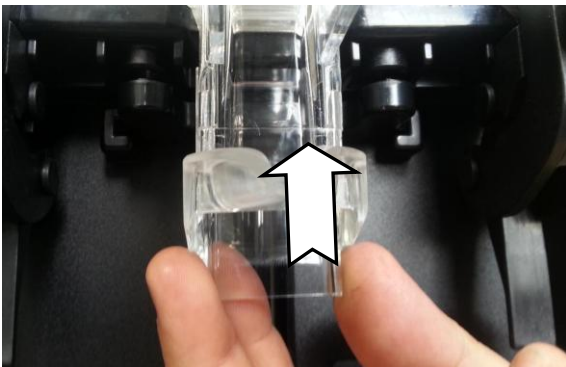
The machine comes with a new kit "Adapter for cold drink." The use of this particular, it's recommended in the case in which it dispenses cold drink or when washing the tank with water or similar detergents (sanitizer). In the pictures below you can see the sequence of assembly and disassembly of the adapter from the transparent tank. It's better not to use the adapter with products like creams or slush.

**WARNING! IT IS BETTER NOT TO USE THE ADAPTER WITH PRODUCTS LIKE CREAMS OR SLUSH!**

**ESP**

La máquina viene con un nuevo kit "Adaptador para bebidas frías". El uso de esta opción se recomienda en caso de que distribuya bebidas frías o al lavar el depósito con agua o con limpiadores similares (esterilizador). En la imagen siguiente se puede ver la secuencia de montaje y desmontaje del adaptador del depósito transparente. Es mejor no utilizar el adaptador con productos como cremas o granizados.

**¡Atención! ¡ES MEJOR NO UTILIZAR EL ADAPTADOR CON PRODUCTOS COMO CREMAS O GRANIZADOS!**

**1****2****3****4**

**Elmeco srl**

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[info@elmeco.com](mailto:info@elmeco.com)