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INSTRUCTION MANUAL



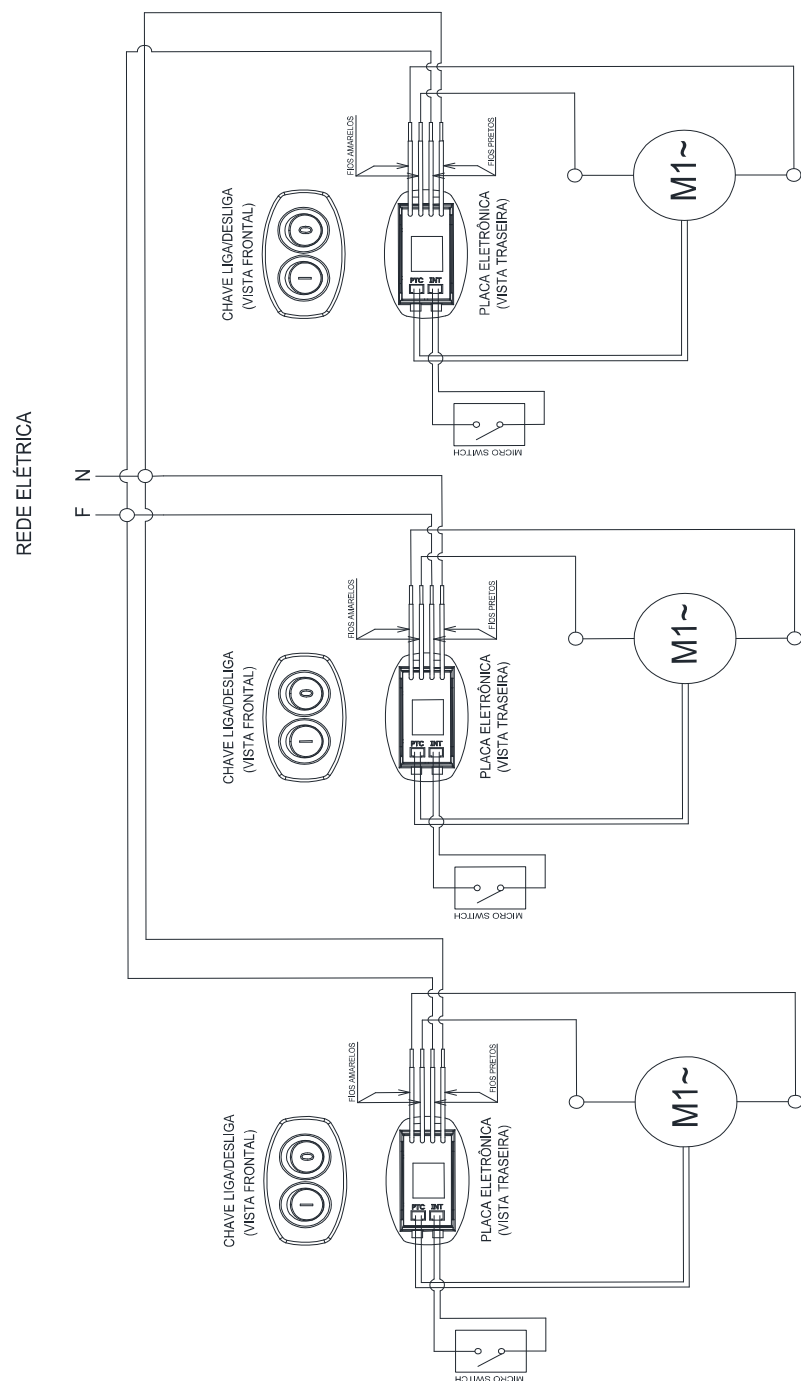
MILK SHAKE MIXER, INOXIDABLE CUP, 1 STEM

MODEL
BMS-3-N

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7. Electric Diagram



1. Introduction

1.1 Main Safety Precautions

When not properly used this equipment is a machine potentially DANGEROUS. Servicing, cleaning or any other operation shall be made by trained people, with the machine unplugged.

The following instructions must be observed in order to avoid accidents:

1.1.1 Read carefully all the instructions

1.1.2 To avoid electric shock risk and damages to the equipment , never operate it wearing wet clothes or shoes , resting on wet surfaces , nor plunge it in water or any other liquid , and do not throw water directly on the equipment.

1.1.3 Any equipment shall always be operated under supervision , principally when used near children

1.1.4 Unplug the equipment from electric source when : it is not being used, before cleaning or before to insert or remove accessories, and when any maintenance or service is to be done .

1.1.5 Do not operate any equipment having a damaged cord or plug .The cord shall not rest on hot surfaces nor on table edges

1.1.6 If your equipment is failing or has been dropped or damaged any way, take it to Technical Assistance to repair, or for electric or mechanical adjustment .

1.1.7 Using accessories not recommended by the manufacturer, may cause personal injuries .

1.1.8 While operating the equipment keep the hands or any other tool away from any parts in movement to avoid personal injuries or damage to the equipment.

1.1.9 Check voltage , the machine voltage shall be the same as the electric network voltage . Always provide the machine ground connection .

1.1.10 Never wear loose clothes with wide sleeves mainly around the wrists during operation.

1.1.11 This equipment has been designed to be used in commercial kitchens. It is used . for instance by restaurants, cafeterias, hospitals and similar.

The use of this equipment is not recommended when:

The production process is an industrial continuous process.

The working local has a corrosive, explosive, gas or water vapor contaminated atmosphere.

IMPORTANT

For the safety of the user, the equipment brings a safety system which prevents machine from unwilling turning on after an electricity failure.

IMPORTANT

This equipment must not be used by children or any persons with reduced physical or mental aptness, lack of experience or knowledge, unless they are under supervision or have received from the person responsible for safety, proper instructions on how to use the equipment.

IMPORTANT

If the Cord is not in good conditions of use, to avoid accidents it must be replaced by the supplier, an authorized technician or someone qualified for the service

IMPORTANT

We recommend children to be watched to not allow them to play with the machine.

IMPORTANT

In emergency situation, unplug the equipment

IMPORTANT

Never spray water directly on the equipment

6 . Applicable Norms

ABNT – NBR- NM 60335- 1

IEC 60335 -2 – 64

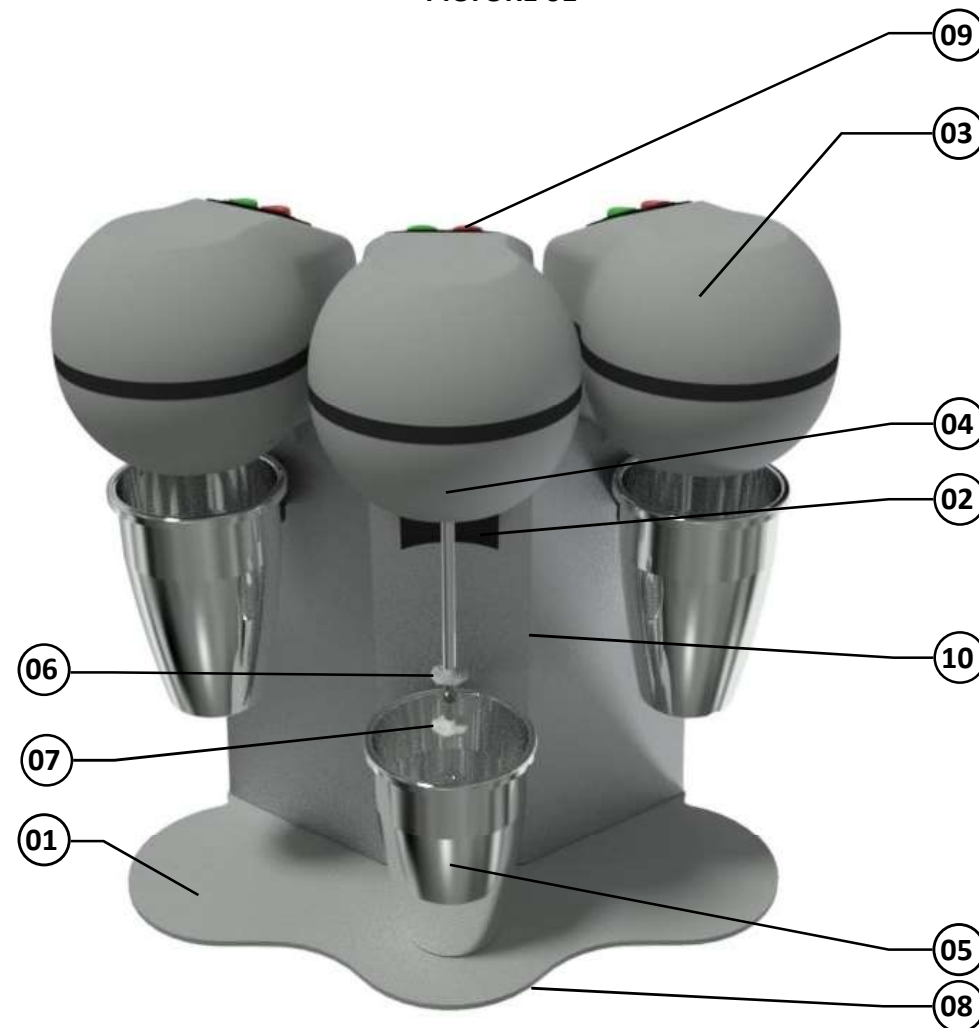
QUADRO 02

PROBLEMS	CAUSES	SOLUTIONS
- The equipment does not switches ON	- Electricity Shortage - Problem with the internal or external electric circuit	- Check electricity supply - Call Technical Assistance
- Product overflow the cup	- The product volume is above the allowed maximum level	- Fill the cup with liquid up to the volume of 450ml.
- The processed product content inside the cup does not mix.	- The product volume is under the allowed maximum level.	- The minimum liquid level processed by the equipment is 150ml volume.

1.2 Main Components

All components of this machine have been made of raw materials carefully selected for each function.

PICTURE 01



01 – Base
02 – Cup Holder
03 – Motor Housing Lid
04 – Motor Housing
05 – Cup

06 – Agitator
07 – Lower Agitator
08 – Feet
09 – ON/OFF Switch
10 – Column

1.3 Technical Characteristics

TABLE 01

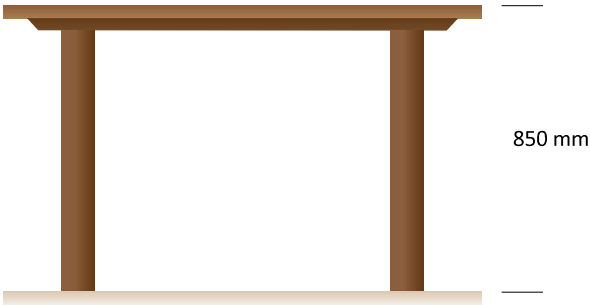
CHARACTERISTICS	UNIT	BMS-3-N
Voltage	V	230
Frequency	Hz	50
Nominal Power Rating	W	3 x 200
Motor Power Rating	W	3 x 500
Height	mm	470
Width	mm	460
Depth	mm	260
Net Weight	Kg	9,3
Gross Weight	Kg	10,3
Cup Total Capacity	L	0,8

2. Installation and Pre Operation

2.1 Installation

2.1.1 Placing

The equipment shall be installed on a dry, firm and level surface , preferably 850 mm above floor



5. Analysis and Problem Solving

5.1 Problems Causes and Solutions

The equipment has been designed to operate with minimum maintenance. However, some irregularities may occur during its operation, due to the natural wear out caused by the equipment use.

If there is any problem with your machine, check the Table-02 bellow, where you will find some possible solutions.

Never clean the machine unless it has come to a complete stop.
Put all the components back to their functional positions before turning the machine ON again.
Check the level of oil.
Do NOT insert your fingers in between belts and pulleys nor chains and gears.

4.6 Maintenance

4.6.1 Danger

Any maintenance with the machine in working situation is dangerous. TURN IT OFF BY PULLING THE PLUG OFF THE SOCKET DURING MAINTENANCE.

- Check that all screws and nuts are tight to avoid possible damage to the equipment.

IMPORTANT

Always remove the plug from the socket in any emergency situation.

4.7 Warning

Electrical or mechanical maintenance has to be undertaken by qualified personnel. The person in charge of maintenance has to be sure that the machine is under TOTAL SAFETY conditions when working.

2.1.2 Electric Installation

The equipment has been designed to use 230V (50-60 Hz). When you receive the equipment make sure the voltage given on the cord label is the same network voltage .

The cord has three pins, one of them is ground. It is mandatory the three pins to be duly connected before to operate the machine.

IMPORTANT

Make sure the network voltage is the same voltage indicated on the cord label.

2.2 Pre Operation

Before to start to use the equipment all the parts to be in contact with the product to be processed shall be washed with water and neutral soap (see item 3.4 Cleaning).

The equipment shall be firm in its position

3. Operation

3.1 Starting

Start the machine by turning ON switch (green) N° 09 (Pic. 01) located on the Motor Housing Lid N° 03 (Pic. 01).

3.2 Operation Procedure

Remove the Cup N° 05 (Pic. 01) from the Cup Holder N° 02 (Pic. 01), lift it then pull it out and all the way down the shaft until it is totally free. First of all place the liquid (i.e. milk)

inside the Cup and then, introduce the paste (i.e. ice-cream) or the powder (i.e. powder chocolate).

Then place the cup on the Cup Holder and switch on the Milk Shake Mixer.

The average processing time is 1(one) minute. Therefore, it is not necessary to keep your equipment turned on any longer.

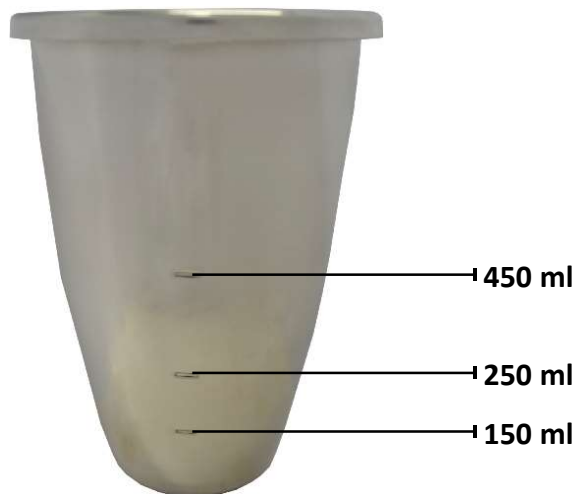
IMPORTANTE

The Milk-Shake Mixer does not perform in the same way that a Blender would. It does not grind products. It only mixes liquids with pastes or powders. It does not process ice.

IMPORTANTE

The maximum liquid volume to be processed cannot exceed the last mark on the Cup, equivalent to 450ml volume, under the risk of overflow when turning on the equipment. The first mark is equivalent to 150ml volume, it does refer to the minimum liquid level processed by the equipment (see pict.02).

PICTURE 02



3.3 Safety System

This equipment has a safety system that prevents its automatic activation when the electric energy is restored after a temporary interruption in the supplying.

In the event that such a situation arises, to be able to turn on the machine and use it again it will be necessary to repeat the procedure explained on item 3.1 Activation

4.2.2 Advices

Be sure to well understand all the information contained in this manual. Every operation function or procedure has to be thoroughly clear.

Before using any commands (switch, buttons, lever), be sure it is the correct one. In case of doubt, consult this manual.

4.2.3 Precautions

The electric cable has to be compatible with the power required by the machine.

Cables touching the floor or close to the machine need to be protected against short circuits.

The oil reservoirs have to be filled until the indicated level. Check and refill if necessary.

4.3 Routine Inspection

4.3.1 Advice

When checking the tension of the belts or chains, DO NOT insert your fingers between the belts and the pulleys and nor between the chain and the gears.

4.3.2 Precautions

Check the motor and sliding or turning parts of the machine in case of abnormal noises. Check the tension of the belts and chains and replace the set when belts or chains show signs of wearing.

When checking the tension of belts or chains DO NOT insert your fingers between belts and pulleys, nor between the chains and gears.

Check protections and safety devices to make sure they are working properly.

4.4 Operation

4.4.1 Warnings

Do not use the machine with long hair that could touch any part of the machine. This might lead to a serious accident. Tie your hair up well and/or cover it with a scarf.

Only trained or skilled personnel shall operate this machine.

Never touch turning parts with your hands or any other way ,

NEVER operate the machine without any original safety devices under perfect conditions.

4.5 After Finishing The Work

4.5.1 Precautions

Always TURN THE MACHINE OFF before cleaning by removing the plug from the socket.

is clean and dry.

* Before using any commands (switch, buttons, lever), be sure it is the correct one. In case of doubt, consult this manual.

* Never touch any manual commands (switch, buttons, lever) unadvisedly.

* If any work is to be made by two or more persons, coordination signs will have to be given for each operation step. Every step of the operation shall be taken only if a sign has been made and responded.

4.1.3 Advices

* In case of power shortage, immediately switch the machine off.

* Use recommended or equivalent lubricants, oils or greases.

* Avoid mechanical shocks, once they may cause damages or bad functioning.

* Avoid water, dirt or dust contact to the mechanical and electrical components of the machine.

* DO NOT change the standard characteristics of the machine.

* DO NOT remove, tear off or maculate any safety or identification labels stuck on the machine. If any labels have been removed or are no longer legible, contact your nearest dealer for replacement.

4.2 Safety Procedures and Notes before Switching the Machine ON

IMPORTANT

Carefully read ALL INSTRUCTIONS of this manual before turning the machine ON. Be sure to well understand all the information contained in this manual. If you have any question contact your supervisor or your nearest Dealer.

4.2.1 Danger

An electric cable or electric wire with damaged jacket or bad insulation might cause electrical shocks as well as electrical leak. Before use, check the conditions of all wires and cables.

IMPORTANTE

This Equipment features a safety system that ensures the integrity of the operator. Operation of this equipment must be performed as described in the “Operation” section of this manual. Any other operation, procedure or processing are deemed unsafe. This equipment must not be used under any different operation, procedure or processing other than what is described in the “Operation” section of this manual.

3.4 Cleaning and Sanitization

IMPORTANT

Switch OFF the General Switch and unplug the equipment before to start cleaning.

When the equipment must go through a complete cleaning and sanitization process:

- Before to be used first time.
- After every day end of operations
- When the saw is not going to be used for a long period.
- Before to start operation after a long period it has not been used.

Wash all the parts with water and neutral soap.

The Cup mya be removed for cleaning:

- To clean the agitator fill tue cup with 250ml of water and turn the equipment ON for a few seconds.

IMPORTANT

Never spray water directly on the equipment

3.5 Cautions with Stainless Steel

The Stainless Steel may present rust signs, which ARE ALWAYS CAUSED BY EXTERNAL AGENTS, especially when the cleaning or sanitization is not constant and appropriate.

The Stainless Steel resistance towards corrosion is mainly due to the presence of chrome, which in contact with oxygen allows the formation of a very thin protective coat. This protective coat is formed through the whole surface of the steel, blocking the action of external corrosive agents.

When the protective coat is broken, the corrosion process begins, being possible to avoid it by means of constant and adequate cleaning.

Cleaning must always be done immediately after using the equipment. For such end, use water, neutral soap or detergent, and clean the equipment with a soft cloth or a nylon sponge. Then rinse it with plain running water, and dry immediately with a soft cloth, this way avoiding humidity on surfaces and especially on gaps.

The rinsing and drying processes are extremely important to prevent stains and corrosion from arising.

IMPORTANT

Acid solutions, salty solutions, disinfectants and some sterilizing solutions (hypochlorites, tetravalent ammonia salts, iodine compounds, nitric acid and others), must be AVOIDED, once they cannot remain for long in contact with the stainless steel.

These substances attack the stainless steel due to the CHLORINE on its composition, causing corrosion spots (pitting).

Even detergents used in domestic cleaning must not remain in contact with the stainless steel longer than the necessary, being mandatory to remove it with plain water and then dry the surface completely.

Use of abrasives:

Sponges or steel wool and carbon steel brushes, besides scratching the surface and compromising the stainless steel protection, leave particles that rust and react contaminating the stainless steel. That is why such

products must not be used for cleaning and sanitization. Scrapings made with sharp instruments or similar must also be avoided.

Main substances that cause stainless steel corrosion:

Dust, grease, acid solutions such as vinegar, fruit juices, etc., saltern solutions (brine), blood, detergents (except for the neutral ones), common steel particles, residue of sponges or common steel wool, and also other abrasives.

4. General Safety Practices

IMPORTANT

If any recommendation is not applicable to your equipment , please ignore it .

The following safety instructions are addressed to both the operator of the machine as well as the person in charge of maintenance.

The machine has to be delivered only in perfect conditions of use by the Distributor to the user. The user shall operate the machine only after being well acquainted with the safety procedures described in the present manual. READ THIS MANUAL WITH ATTENTION.

IMPORTANT

Any change in the protection systems and safety devices will during operation, create serious risks to the operator physical integrity.

4.1 Basic Operation Practices

4.1.1 Dangers

Some areas of the electric device have parts that are connected or have parts connected to high voltage. These parts when touched may cause severe electrical shocks or even be lethal.

Never touch manual commands such as switches, buttons, turning keys and knobs with your hands wearing wet clothes and/or wet shoes. By not following these instructions operator could be exposed to severe electrical shocks or even to a lethal situation.

4.1.2 Warnings

* The operator has to be well familiar with the position of ON/OFF Switch to make sure the Switch is easy to be reached when necessary.

* Before any kind of maintenance, physically remove plug from the socket.

* Provide space for a comfortable operation thus avoiding accidents.

* Water or oil spilled on the floor will turn it slippery and dangerous. Make sure the floor