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- BESIDES THIS EQUIPMENT, A COMPLETE RANGE OF OTHER PRODUCTS ARE MANUFACTURED , CONSULT OUR DEALERS
- DUE TO THE CONSTANT IMPROVEMENTS INTRODUCED TO OUR EQUIPMENTS , THE INFORMATION CONTAINED IN THE PRESENT
INSTRUCTION MANUAL MAY BE MODIFIED WITHOUT PREVIOUS NOTICE .

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INSTRUCTION MANUAL



ELECTRONIC PLANETARY MIXER, 3 SPEEDS, 12 LITERS

MODELO
BPS-12E-N

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1. Introduction

1.1 Safety

When incorrectly used this equipment is a potentially DANGEROUS machine . Maintenance, cleaning or any other service shall be performed by a duly trained person and with the machine unplugged .

To avoid accidents respect the following instructions :

1.1.1 Read completely these instructions.

1.1.2 To avoid to risk electric shocks and damage to the equipment never use it with wet clothes or shoes and/or standing on wet floors. Do not plunge it into water nor any other liquid, do not spray water directly to the equipment.

1.1.3 When the equipment is in operation the operator shall supervise it, principally when children might be near.

1.1.4 Unplug the equipment when: It is not in use, before to clean it, before to remove or to place some accessory. Before maintenance or any other service.

1.1.5 Do not operate the equipment if the cord or plug are damaged. Do not lean the cord on table edges, nor let them lie on hot surfaces.

1.1.6 When the equipment may have fall, have been damaged any way, or simply does not work, take it to Technical Assistance to check.

1.1.7 The use of accessories not recommended by the manufacturer may cause corporal damages.

1.1.8 Keep the hands or any other object away from moving parts while the equipment is in operation.

1.1.9 During operation, never wear loose clothes with wide sleeves principally around the wrists.

1.1.10 Make sure the equipment voltage and the network voltage are the same, and the equipment has been solidly grounded.

For mayor operator protection this equipment is provided with a safety system not allowing to be involuntary switched ON after an eventual energy shortage.

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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.

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Make sure the cord is in perfect conditions for use. If it is not, change it for a new one in accordance with the technical specifications and safety rules. The substitution shall be made by a qualified professional , and shall respect the local safety norms.

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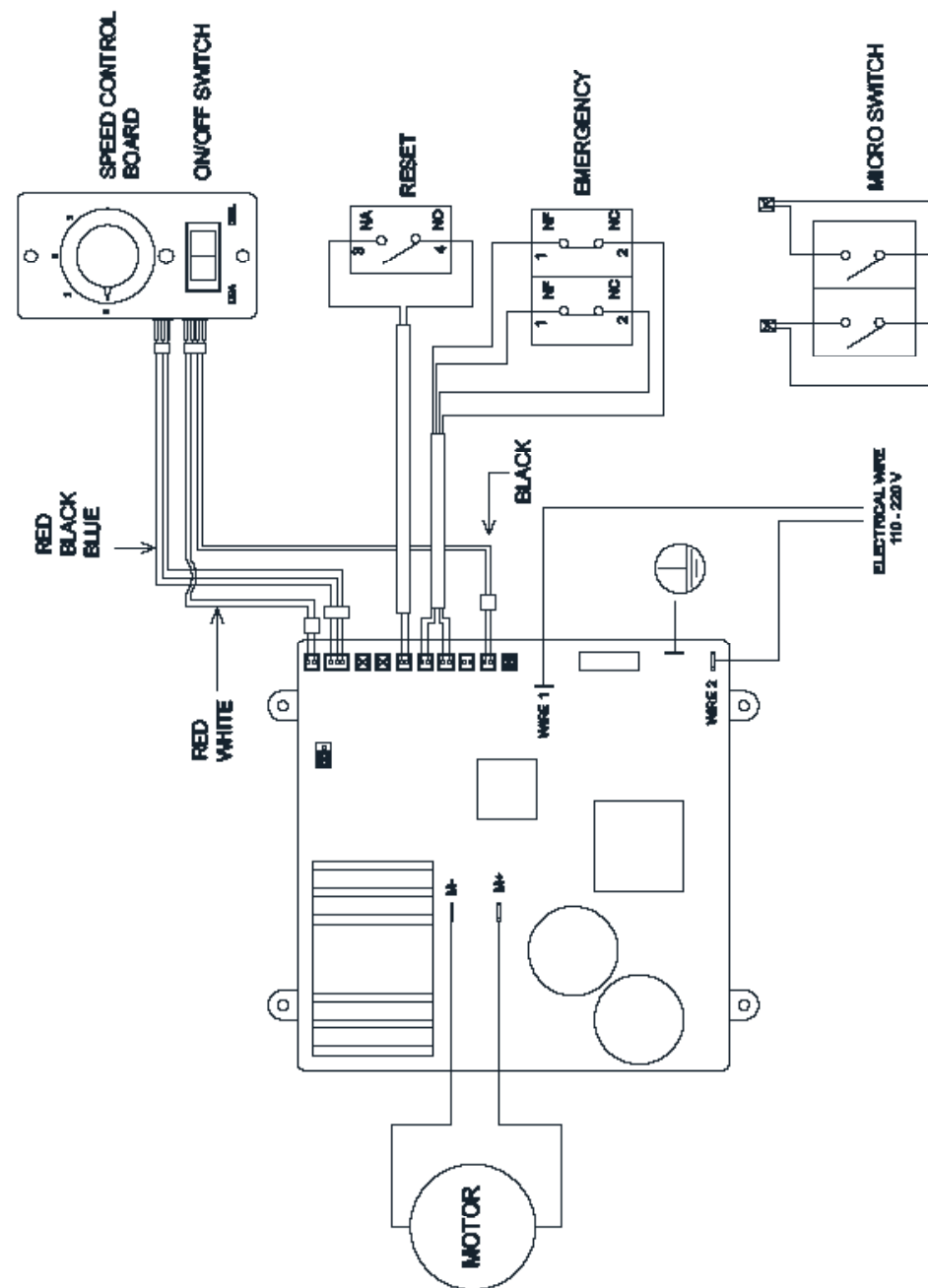
In case of emergency take off the plug from its socket.

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Never spray water directly on to the equipment.

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8. Electric Diagram



6. Applicable Norms

Brazilian Norm ABNT NBR NM 60335-1
IEC Norm 60335-2-64

7. Maintenance

Maintenance must be considered a set of procedures with the purpose to keep the equipment best operating conditions , therefore increasing the equipment life and safety.

* Cleaning – check item 3.5 Cleaning

* Wiring - Check all wires regarding deteriorate conditions as well as all electric contacts (terminals) regarding tightening and corrosion .

*Contacts – ON/OFF switches, emergency button, reset button , electronic circuits etc , check the equipment in order to assure that all components are correctly working and the equipment operation is normal .

* Installation – make sure the installation followed item 2.1 instructions

1 - Each month check :

- Check the electrical installation
- Measure the voltage at the socket
- Measure the working current and match it with the nominal current
- Check the tightening of all electric terminals to avoid bad contacts
- Check electric motor shaft clearance
- Check the wiring for overeating , insulation failures and mechanical damages .

2 - Each three month checks

- Check electrical components such as ON/OFF switch, emergency button , reset button, electronic electric circuits , overeating, insulation failings, or mechanical damages
- Check bearings clearances
- Check retainers, O’rings, V’rings and other sealings.

1.2 Main Components

All components of this equipment were designed and manufactured using carefully selected materials to their proper functions, according to test standards and experience of Siemens.

PICTURE 01



01 – Motor Housing
02 – Emergency Button
03 – Speeds Board
04 – Reset Button

05 – ON/OFF Switch
06 – Frame
07 – Bowl
08 – Bowl Protection

1.3 Technical Characteristics

TABLE 01

CHARACTERISTICS	UNIT	BPS-12E-N
Average Production	kg/h	200
Voltage	V	127 - 220
Frequency	Hz	60
Power Rating	CV	1,25
Consumption	kW/h	0,92
Height	mm	800
Width	mm	370
Depth	mm	450
Net Weight	kg	29
Shipping Weight	kg	35

TABLE 02

LOAD TABLE		
MODEL	MINIMUM LOAD	MAXIMUM LOAD
BPS-12E-N	1 litre or 15 eggs	3 litres or 30 eggs

2. Installation and Pre Operation

2.1 Installation

2.1.1 Placing

The equipment must be placed on to a levelled stable surface .

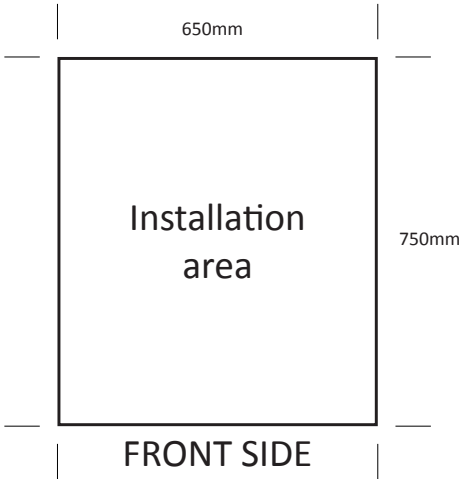


TABLE 03

PROBLEMS	CAUSES	SOLUTIONS
- The machine does not start.	- Electric energy shortage; - Problem with the internal or external wiring	- Check if plug is connected to its socket, or if there is electric shortage; - Call Technical Assistance.
- Burnt smell or smoke.	- Problem with the internal or external wiring.	- Call Technical Assistance.
- The equipment switches ON but the Bowl takes to much time to turn.	- Problem with the Electric motor.	- Call Technical Assistance;
- Damaged cord	- failure during product transportation.	- Call Technical Assistance.
- The equipment stops during operation	- Electric shortage Overload - ON / OFF Switch bad contacts	- Check the Plug; - Check Electricity supply - Check the load Table 02; - Call Technical Assistance.
- Unusual noises.	- Damaged bearings.	- Call Technical Assistance.

5. Analysis and Problems Solving

5.1 Problem, causes and solutions

The equipment has been designed to operate with the need of minimum maintenance but the natural wearing caused by longer use of the equipment may occasionally cause some malfunctions.

If such problem occurs with your equipment, refer to Table 03 in which the most common situations are listed with recommended solutions.

2.1.2 Electrical Installation.

The equipment has been designed to operate by means of a bi volt automatic voltage system , meaning, it may be connected to either 110 - 220 Volts network voltage. The cord has a plug with three pins , one of them is ground . The three points shall be duly connected.

2.2 Pre Operation

Before to use the equipment all the parts to be in contact with the product shall be washed with water and neutral soap (see item 3.5 Cleaning)

Make sure the equipment is stable on the working surface .

3. Operation

3.1 Starting

To start the equipment proceed as follows:

Emergency button # 02 (pic. 01) should be open , check it;

Close the Bowl Protection # 08 (Pic.01);

Reset the equipment using the Reset Button # 04 (Pic.01);

Press the ON/OFF Switch # 05 (Pic.01).

3.2 Operation Procedures

Assemble the selected agitator, The Beater # 01 (Pic. 02) the Globe # 01 (Pic.03) or the Hook # 01 (Pic.04), then place the ingredients inside the Bowl # 07 (Pic. 01), close the Bowl Protection # 08 (Pic. 01), select the speed using the Speed Board # 03 (Pic 01). Finally start the machine.

3.3 Agitators Assembling

-All agitators are assemble the same way (Pics. 02 , 03 , 04);

- Lift the Glove # 01 (Pic.06) on the machine Shaft # 02 (Pic 06);

- Fit the hole on the agitator # 03 (pic.06) on the machine Shaft pin;

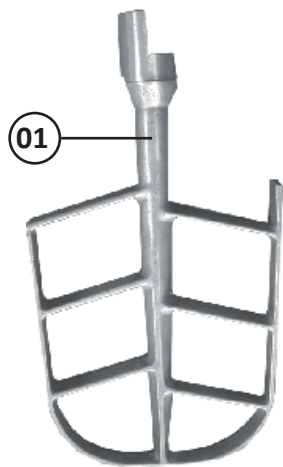
- Lower the Glove # 01 (Pic. 06).

3.4 Bowl Assembling

Bring the Bowl # 07 (Pic 01) to the machine Frame # 06 (Pic. 01);

Turn the Bowl clockwise to make the slit # 02 (Pic. 05) on the Bowl bottom plate fit perfectly on the Frame pins # 01 (Pic. 05).

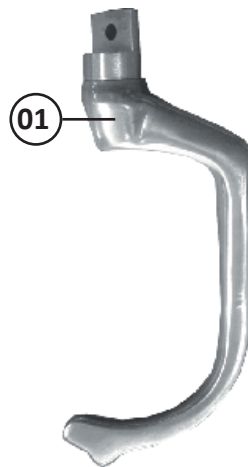
PICTURE 02



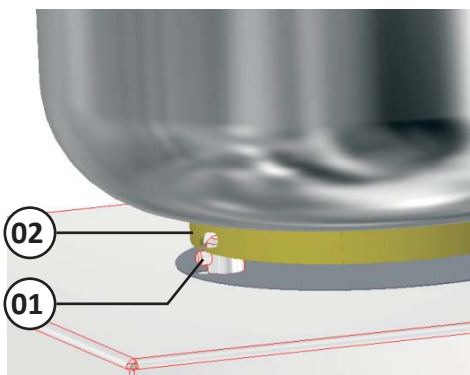
PICTURE 03



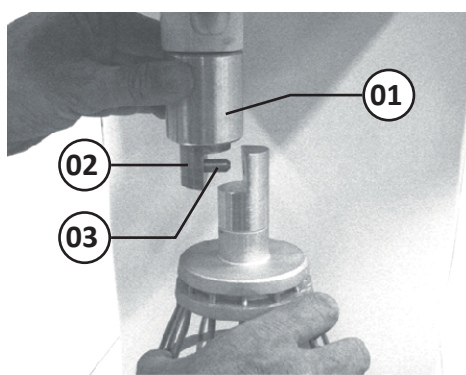
PICTURE 04



PICTURE 05



PICTURE 06



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.

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.

3.5 Cleaning and Sanitizing

IMPORTANT

Never clean the machine when it is connected to the power point, always unplug the machine before cleaning.

The equipment shall be totally cleaned and sanitized:

- Before to be used first time;
- After every day's operation;
- When it has not been used during a long time;
- Before to operate it after a long period unused;

Some parts of the equipment may be removed for cleaning , such as:

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.

OBSERVATION

For your own safety read all the machine stickers.

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.

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.

- The Beater # 01 (Pic. 02);
- The Globe # 01 (Pic. 03);
- The Hook # 01 (Pic. 04);
- The Bowl # 07 (Pic. 01);

To disassemble the agitators and the bowl follow item 3.3 and 3.4 inverse path.

Wash all the parts with water and neutral soap.

To assemble follow the inverse path.

IMPORTANT

Never spray water directly to the equipment

3.6 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 it 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.**

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 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.

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.