Instruction manual

powerlux EDG EQUIPAMENTOS

Receipt

The products travel by the buyer's own risk and responsibility. Therefore, if you notice any damage in the package or in the equipment, contact the transportation service immediately so that the transportation insurance be covered.

Accessories

Check the package content:
Equipment;
2 brackets;
1 rigid hose;
1 flexible hose;
1 vacuum chamber;
1 alligator clip magnetic support;
Instruction manual;
Warranty.

Installation

Install the equipment in a ventilated place, far from furnaces and other heat sources.
It is quite important to provide a 20 cm minimum free local on the backside of the equipment for the air circulation. The ventilation obstruction can damage bulbs or decrease drastically their useful lifetime.
The powerlux is produced at 220 volt tension, consuming about 600 watts 2,7 amp. To use it at 110 or 127 volts it is necessary the use of a 1500 watt transformer. It is advisable the connection of the outlet's rounded terminal (grounding) to a grounded coppered bar. Never use the electrical network neutral as grounding.
On the backside of the equipment there are the nitrogen and vacuum tips. Connect the most rigid hose to the nitrogen outgo regulator using the brackets to avoid leakage. Use the most flexible hose to connect the vacuum; it is not necessary the use of brackets.
The nitrogen cylinder and its outgo regulator can be acquired in gas-specialized companies. The nitrogen is a non-inflammable low cost gas provided in cylinders of several volumes. We recommend the use of 3 m3 cylinders.
The vacuum can be obtained in any low capacity pump. A refrigerator sealed unit fulfills this function perfectly. The vacuum pump plug must be connected to the equipment backside outlet. Check if the pump operation tension is 220 volts.

Function

Without vacuum, without nitrogen

The powerlux generates high intensity light that penetrates in the resin deeply.

Even if the vacuum and the nitrogen are not connected, the powerlux can be used:
Connect the equipment to the electrical network and its lid is closed:
Turn on the on/off switch on the backside of the equipment.

On the display it will appear a number between 00.0 and 00.8 that indicates the equipment time test in the factory. Afterwards, according to the use of the equipment, every time it is turned on the sum of used times in hours will be indicated, which will be useful to control the bulb lifetime.
Some seconds later the polymerization time will appear programmed in a previous operation.

Press the key S/S
The light bulbs will start to flash.
Then press the key S/S *again.*
The process will be interrupted and the lid will open automatically and the display will indicate opened door (------.---).
Put the resin that will be light-cured on the center of the revolving tray. It is necessary the use of the alligator clip.
Close the door forcing it slightly downwards.
Press the key Ajuste (set) determining the lightcuring time, which can vary from 0,5 to 9 minutes respecting the resin manufacturer's indications.
Press the key S/S
The lightcuring process will start.
The time will decrease second by second.
After finished the determined time, the process will be ended and the lid will open automatically.
The equipment will be ready for a new cycle.

With Nitrogen (N^2)

Open the nitrogen cylinder valve.
Set in the cylinder outgo regulator the amount of nitrogen at 5 minutes per minute.
Put the resin to be light-cured on the center of the revolving tray. Use the alligator clip if it is necessary.
Center the vacuum chamber on the tray.
Close the lid forcing it slightly downwards.
Press the key Ajuste (set) determining the lightcuring time, which can vary from 0,5 to 9 minutes, respecting the resin manufacturer's indications.
Turn on the switch Nitrogênio (Nitrogen)(N^2)
The gas will start to circulate, the switch will light up.
Press the key S/S
The lightcuring process will start.
After finished the determined time, the lid will open automatically.
Turn off the switch Nitrogênio (Nitrogen) (N^2)
Remove the vacuum chamber.
The lightcuring will be ended.

With vacuum

Open the nitrogen cylinder valve.
Set in the cylinder outgo regulator the amount of nitrogen at 5 minutes per minute.
Put the resin to be lightcured on the center of the revolving tray. Use the alligator clip if it is necessary.
Center the vacuum chamber on the tray.
Turn on the Vácuo (Vacuum) switch
Force the vacuum chamber slightly until you notice that it was formed vacuum inside it
Close the lid forcing it slightly downwards.

Press the key Ajuste (set) determining the lightcuring time that can vary from 0,5 to 9 minutes, respecting the resin manufacturer's indications.
Press the key S/S
The lightcuring process will start.
After finished the determined time, the lid will open automatically.
Turn on the switch Nitrogênio (Nitrogen)(N^2) until you notice that there is no vacuum inside the chamber anymore.
Turn off the switch Nitrogênio (Nitrogen) (N^2)
Remove the vacuum chamber.
The lightcuring will be ended.

Important notes:

- Between one operation and another, when the process allows, close the equipment lid; this decreases the cooling time and increases the light bulb lifetime.
- To open the lid press the key S/S twice.
- Keep the equipment filters (glass) and the vacuum chamber always clean. Use a wet cloth. Do not use alcohol, since it is inflammable and it can cause accidents.
- Do not allow non-skilled people to operate the equipment.
- Do not allow non-authorized people to provide maintenance to the equipment. The powerlux operates with high tensions and currents and therefore it is careless to allow non-expert people to have access to the equipment internal part. In the case of lack of electrical energy, it is possible to open the lid manually. To do that input a spatula in the orifice located in the equipment right front leg.

Light bulb change

After finished the light bulb lifetime it is necessary to substitute the setting "Suporte- Lâmpadas" (Support-light bulbs). This is modular and to be substituted it is not necessary the use of tools or technical assistance.

1 – Even if the equipment is not heated, unplug the equipment from the outlet and wait for at least ten minutes before any operation.
2 – Unscrew the screws that hold the filter (glass) in front of the light bulbs.
3 – Remove the filters.
4 – Disconnect the black wire from the center of the light bulb by pulling the connector.
5 –Separate the two parts of the support carefully. If you find it necessary use a spatula or a blade.
6 – Remove the setting
7 – Unpack the new setting and using the gloves that come with the kit put the new setting in the place.
8 – Do not touch the light bulbs without using gloves.
9 – Connect the black wire.
10 – Replace the filter (glass) and the screws.

Specifications:

Power supply tension: 220 Volts – 60Hz.
Consume: 600 watts – 2,7 Amp.
Light bulb: 2 xenon-type light bulbs
Lifetime between 100 and 200 hours.

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