

## MultiCure Instruction for use



## 1.0 General cautions:

- Read this manual carefully before operation.
- This machine should be operated by the user who is a well trained.
- The built-in safety mechanisms should not be removed or modified.
- Before turning on the machine fill the machine with water.
- Do not allow unauthorized persons to repair the machine.
- The MultiCure is not allowed to be connected to compressed air over 6 Bar.

## 1.1 Safety warning label information:



- Do not touch live electric parts.
- Turn off power source and disconnect input power before installing or servicing the equipment.
- Turn off the equipment when not in use.
- Do not use worn and damaged cables.
- Use only well maintained equipment.
- Do not handle power cord with wet hand.



- Keep Children away.
- Do not open the cover during operation.
- Do not open Air outlet valve during operation.
- Do not open Water outlet valve during operation.
- Do not connect to air pressure generator which produces over 6 bar.
- Do not put air pressure to the chamber with water when the cover is opened.



- Do not touch the cover during operation.

## 2.0 Check the package contents:

- MultiCure.
- Instructions for use manual.
- Electric diagram.
- Declaration of conformity.
- Warranty conditions.

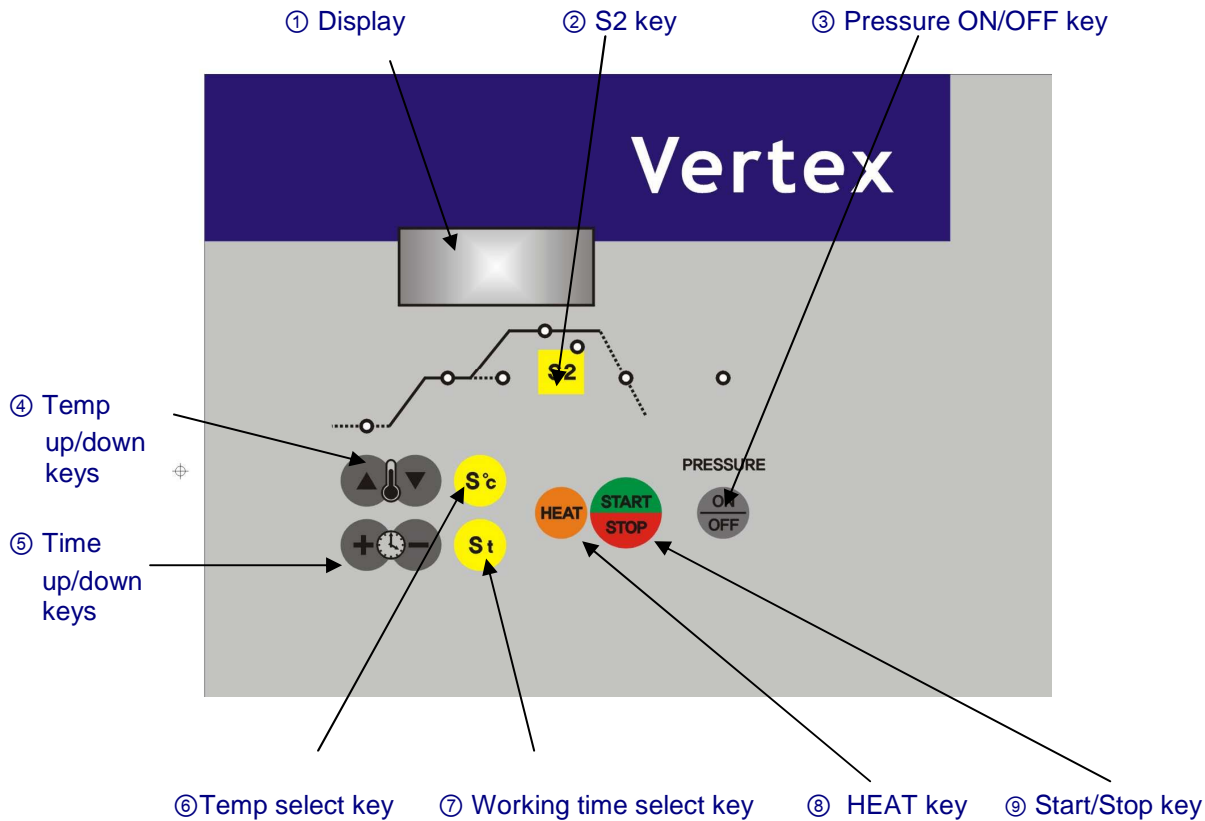
## 2.1 Prepare the place where the MultiCure will stand:

- The place should be flat and dust free.
- Make sure there is enough space from the back side and the right side.

## 2.3 Steps for installation:

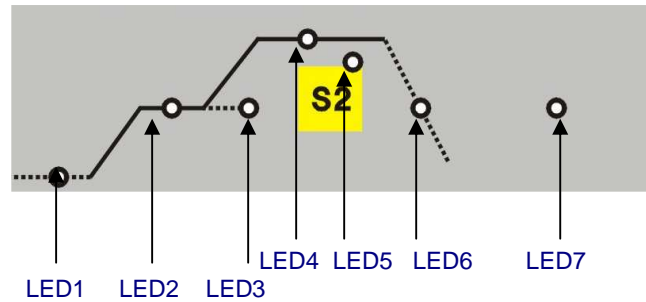
- Connect an air hose to the compressor or connect it to an air regulator.
- Connect a water hose to the water outlet.
- Put the power cord into a grounded power socket.

### 3.0 Description front panel:



- ① Display:  
Shows current temperature, remaining time or, the possible mistakes (Err 1 or Err 2).
- ② S2 key:  
Selection of second polymerisation step.
- ③ Pressure ON/OFF key:  
Polymerisation with or without pressure and can confirm it through LED7.
- ④ Temp up/down keys:  
Select temperature by degree (up or down).
- ⑤ Time up/down keys:  
Select time per minute (up or down).
- S°C key:  
Pre-programmed temperatures (0, 55, 70, 93 en 100°C).
- S t key:  
Pre-programmed times (10, 20, 30, 60, 90 minutes).
- ⑧ HEAT key:  
Heating of water.
- START/STOP key:  
Start or stop the selected program.

#### 4.0 Description of LED Display at the front of the MultiCure:



##### LED 1

When this LED is on it means that the MultiCure is turned on and ready to be programmed for a polymerisation program. During this stage the display shows the current temperature.

##### LED 2

The LED 2 is turned on by first pressing the "HEAT" key, then adjust the right temperature by pressing the "S $\text{C}$ " key in combination with the temp up and down keys and finally use the "St" key in combination with the + or – key for the correct time.

##### LED 3

When LED 3 is on it means that a single polymerisation cycle has been finished. After this cycle the MultiCure will maintain that temperature. Pressure can be added to the polymerisation program but as soon as the program has finished the MultiCure will release the pressure. Furthermore it will also give an alarm sound for 5 seconds and "End" message will be shown on display in this mode.

##### LED 4

When LED 4 is turned on it means that the second part of the polymerisation is in progress. This can only happen when a first polymerisation program has been set. After pressing the "S2" key you can program the second cycle. The programming is the same as programming the first cycle.

##### LED 5

LED 5 will only be on when the S2 key is used to set a second polymerisation cycle.

##### LED 6

When LED 6 is on it means that the water is cooling down after the second polymerisation cycle is completed.

##### LED 7

LED 7 will be turned on as soon as you have pressed the PRESSURE ON/OFF key.

##### °of $\text{C}$ is blinking

As soon as °of  $\text{C}$  is blinking in the display it means that the machine is heating up.



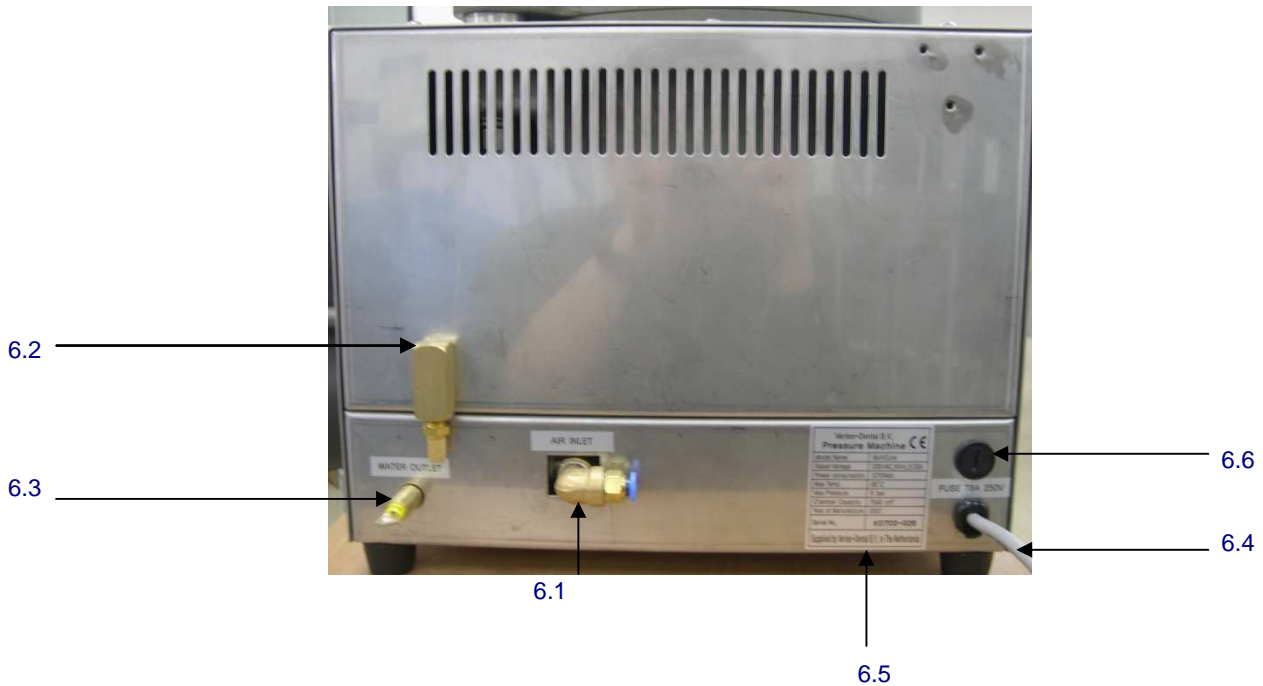
Do not use pressure when the MultiCure heats up over 95°C and the cover is opened. Do not fill water higher than the height of the air pressure hole.

## 5.0 Description of the right side of the MultiCure and how to release the water:

### 5.1 Water release knob



## 6.0 Description of back side of machine:



- 6.1 Air inlet:  
Connect an 8mm air tube. Maximum pressure is 6 bar.
- 6.2 Air outlet:  
At the end of a polymerisation cycle the MultiCure will release air via this tube.
- 6.3 Water outlet:  
Attach a hose in order to release the water outside the MultiCure.
- 6.4 Power Ac cord:  
Place the cord in a grounded power socket.
- 6.5 Identification label
- 6.6 Fuse box:  
The fuse box contains a T8Ampere 250 volts fuse.

**7.0 How to operate:**

1. Turn on the machine.
2. Open the cover and put the flask into the chamber. Pour as much water as needed.
3. Press heating function key in order to go into the preheating mode (LED2 On).
4. Select temperature and working time for step 1 by pressing temp select key, temp up / down key, working time select key and time up / down key.
5. For pressure, press the pressure on-of key. To control air pressure level, optional air regulator is recommended.
6. Start the machine by pressing start key. Machine will automatically running after arriving this temperature.
7. An alarm sound will go off and machine will keep the same temperature.
8. Selecting step 2, after pressing S2 key user can input temperature and working time for step 2 by pressing temp select key, temp up / down key, working time select key and time up / down key. For the operation of the step 2, after working time, machine will automatically cool down.

After switching off and then switching on, machine will keep last working cycle.

**8.0 Error message:**

1. Error1: Over heating or problem of temperature sensor.
2. Error2: Problem of temperature sensor.

**9.0 Specifications of the MultiCure:**

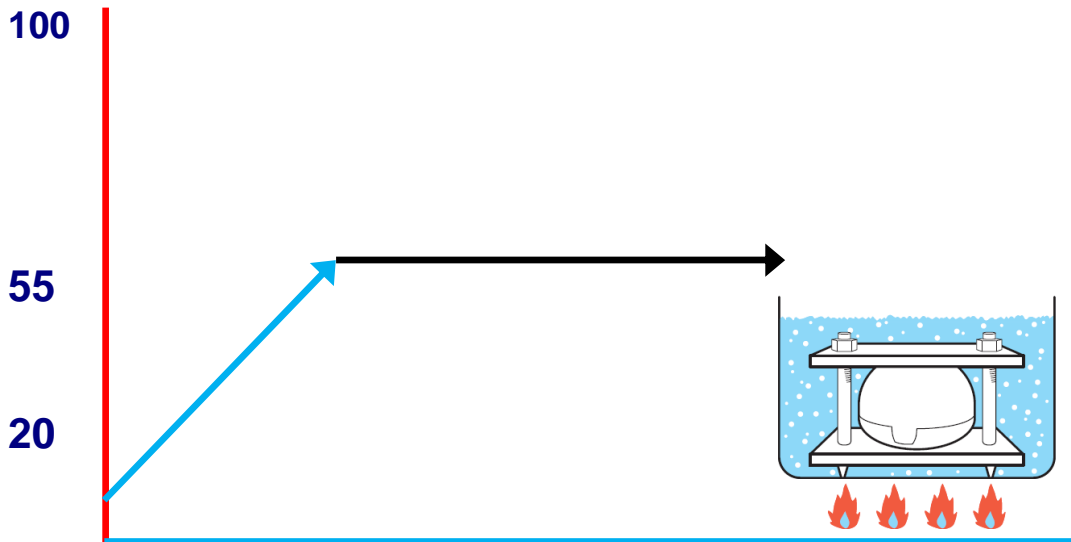
1. Related voltage: 230VA,50Hz,53A
2. Power consumption: 1270W
3. Max temperature: 100°C
4. Max pressure: 6bar
5. Chamber capacity: 7948cm<sup>3</sup>
6. Dimension: W330 X D400 X H350
7. Weight: 23.5Kg

**10.0 Distributor Information:**

Vertex-Dental B.V.  
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3705 HJ ZEIST  
The Netherlands  
T: +31 (030) 697 67 49  
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E: [info@vertex-dental.com](mailto:info@vertex-dental.com)  
W: [www.vertex-dental.com](http://www.vertex-dental.com)

## Quick guide:

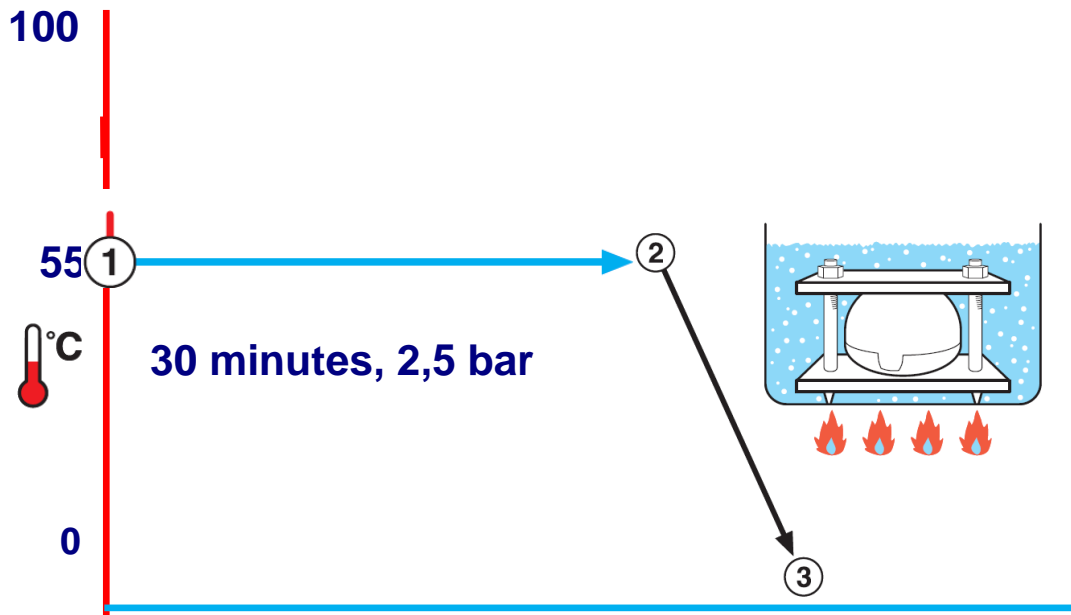
### Preheat to 55°C



1. Put water in the MultiCure up to the right level.
2. Turn on the MultiCure (green button at the front of the machine).
3. Press the "HEAT" key.
4. Set the temperature at 55°C, use the "St" key (or the up or down triangles on the left next to the "St" key).
5. Press the "START/STOP" key.



**Polymerisation process: Start at 55°C, 30 minutes and 2,5 bar:**

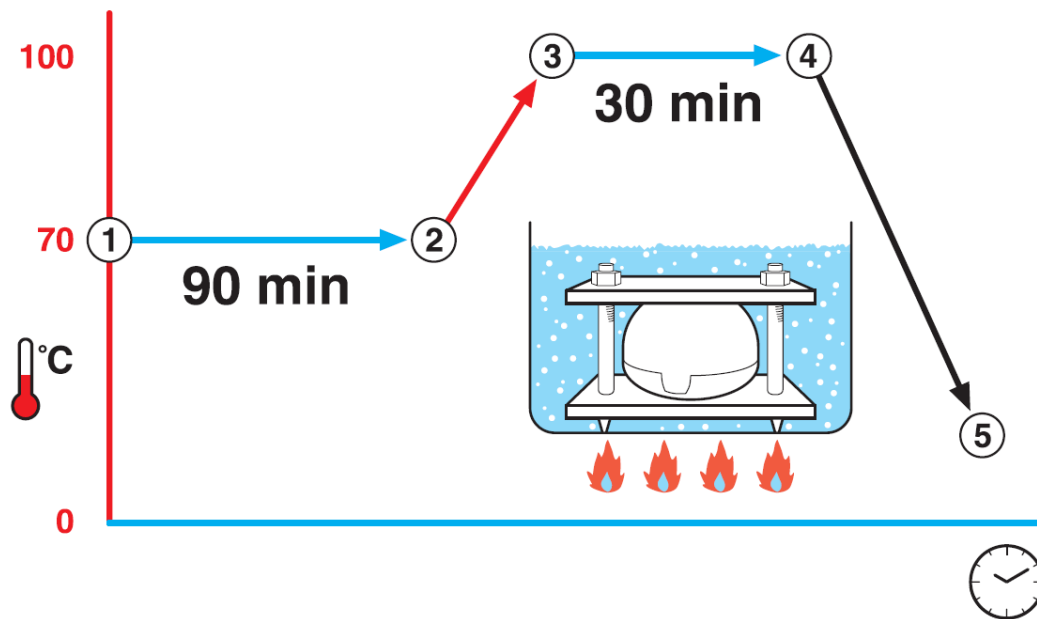


1. Put water in the MultiCure up to the right level.
2. Turn on the MultiCure (green button at the front of the machine).
3. Preheat the MultiCure as mentioned above.

When the MultiCure has reached the working temperature proceed by doing the following steps:

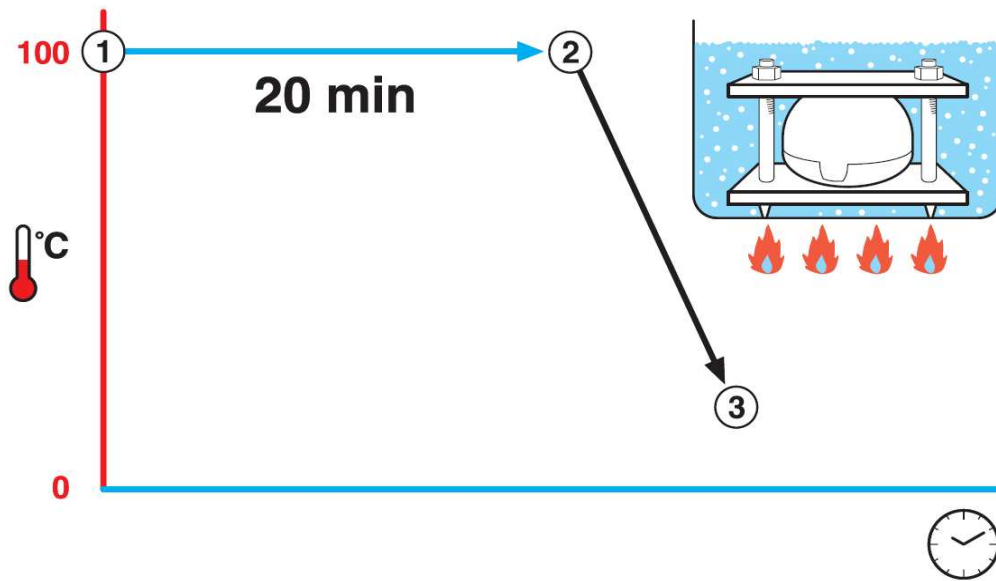
4. Press the "HEAT" key.
5. Determine the right temperature by using the "S°C" key (in combination with the up and down triangles on the left of the "S°C" key).
6. Determine the right polymerisation time by using the "St" key (in combination with the + and – keys on the left of the "St" key).
7. Press the "pressure ON/OFF" key.
8. Place the flasks.
9. Close the cover.
10. Press the "START/STOP" key.

To polymerize in 2 stages: start e.g. at 70°C for 90 minutes, after this the temperature goes up to 90°C and stays there for 30 minutes. After this the water cools down.



1. Put water in the MultiCure up to the right level.
2. Turn on the MultiCure (green button at the front of the machine).
3. Preheat the MultiCure to 70°C (see the explanation above).
4. Press the "HEAT" key.
5. Determine the right temperature by using the "S°C" key and set the MultiCure at 70°C (in combination with the up and down triangles on the left of the "S°C" key).
6. Determine the right polymerisation time by using the "St" key (in combination with the + and – keys on the left of the "St" key in this case 90 minutes).
7. Press now the "S2" key.
8. Determine the right temperature by using the "S°C" key and set the MultiCure at 100°C (in combination with the up and down triangles on the left of the "S°C" key).
9. Determine the right polymerisation time by using the "St" key (in combination with the + and – keys on the left of the "St" key in this case 30 minutes).
10. Press the "START/STOP" key.

Polymerize at 100°C for 20 minutes, after this cool down.

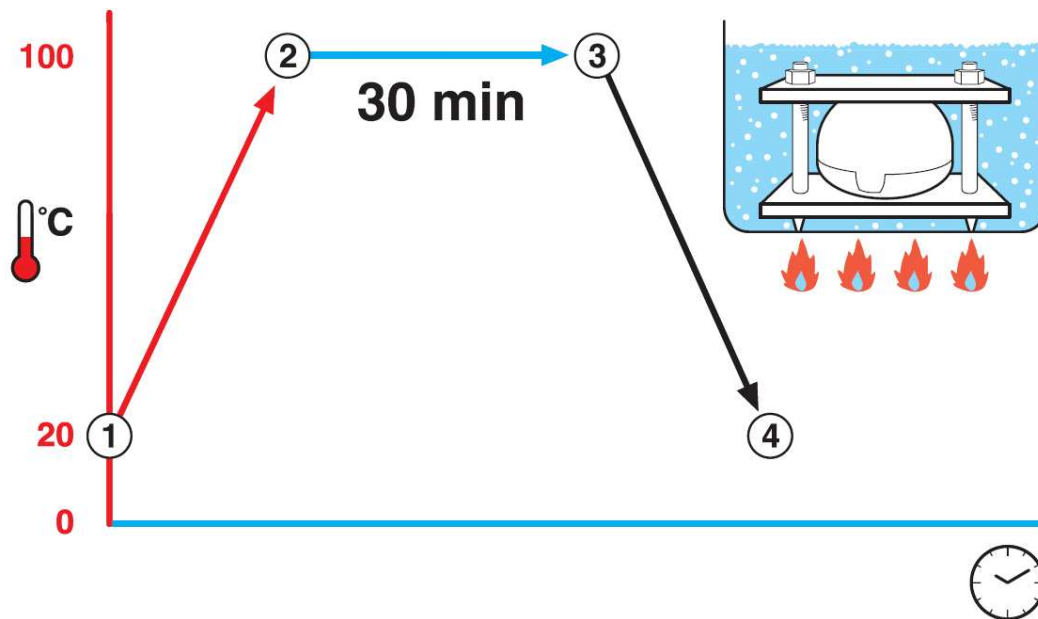


1. Put water in the MultiCure up to the right level.
2. Turn on the MultiCure. (green button at the front of the machine)
3. Preheat the MultiCure to 100°C (see the explanation above)

When the MultiCure is at (100°C) follow the next steps:

4. Press the "HEAT" key.
5. Determine the right temperature by using the "S°C" key and set the MultiCure at 100°C (in combination with the up and down triangles on the left of the "S°C key).
6. Determine the right polymerisation time by using the "St" key (in combination with the + and – keys on the left of the "St" key in this case 20 minutes).
7. Place the flasks.
8. DO NOT CLOSE THE COVER.
9. Press the "START/STOP" key.

**Polymerisation cycle:** start at 20°C than the temperature goes up to 100°C and will maintain there for 30 minutes, than it will cool down.



1. Put water in the MultiCure up to the right level.
2. Turn on the MultiCure (green button at the front of the machine).
3. Place the flasks in the MultiCure.
4. Press the "HEAT" key.
5. Determine the right temperature by using the "S°C" key and set the MultiCure at 100°C (in combination with the up and down triangles on the left of the "S°C" key).
6. Determine the right polymerisation time by using the "St" key (in combination with the + and – keys on the left of the "St" key in this case 30 minutes).
7. DO NOT CLOSE THE COVER.
8. Press the "START/STOP" key.



*Please note that electrical/electronic units must be disposed of separately. Do not dispose with household waste. The black bar on the "garbage bin" symbol indicates that the unit was put into circulation after August 13, 2005. Please note that the unit is subject to regulation 2002/96/EC (WEEE) and applicable national laws and must be disposed of accordingly. Please contact your dealer if the unit needs to be disposed of.*

**These instructions for use can contain printing or setting mistakes!**