

Vertex PolyCure25



Instruction manual

1.0 General cautions



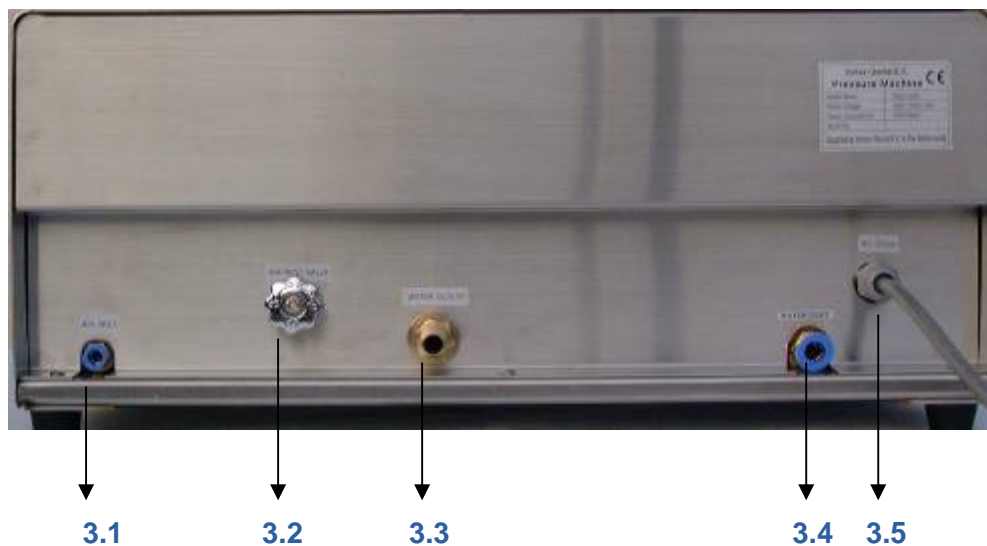
- 1.1 Read carefully this manual before operation.
- 1.2 The PolyCure 25 should be operated by the user who is a well trained professional and not merely an occasional worker.
- 1.3 The built-in safety mechanisms should not be removed or modified.
- 1.4 Do not allow unauthorized persons to repair the PolyCure 25.

2.0 Installation instruction

- A Connect Ac power code (3.5)
- B Connect a hose 5x8 to Air inlet (3.1)
- C Connect a hose 10x12 to Water inlet (3.4)
- D Connect a hose supplied together to Water outlet (3.3)

3.0 Description of back side of the PolyCure 25

- 3.1 Air inlet
- 3.2 Air Vent valve
- 3.3 Water outlet
- 3.4 Water inlet
- 3.5 Ac power code



Picture 1

4.0 Description of the front panel

4.1 Display (General 7 segment type 4 digit)

4.1.1 In initial mode and heating mode, it shows temperature and temperature mark(example: 55°C).

4.1.2 In working mode, it shows a current working time and time mode mark (example: 1P10.).

4.1.3 Error cord mark: Err.

4.2 Power switch (green)

4.3 “Mode” button (red round button) to start working cycle

After switching on, by pressing the “Mode” button, user can heat up the water temperature to 55°C(pre-heating mode). When the temperature of 55°C has been reached, place the basket with the Vertex Castaflasks in the PolyCure 25. Close the cover and press the “Mode” button again. The PolyCure 25 will put itself under 2.5Bar pressure (after it is connected to a compressor). By repressing the “Mode” button again, user can stop working cycle and machine will go into idle mode.

4.4 “Select” button (yellow round button) to select working time

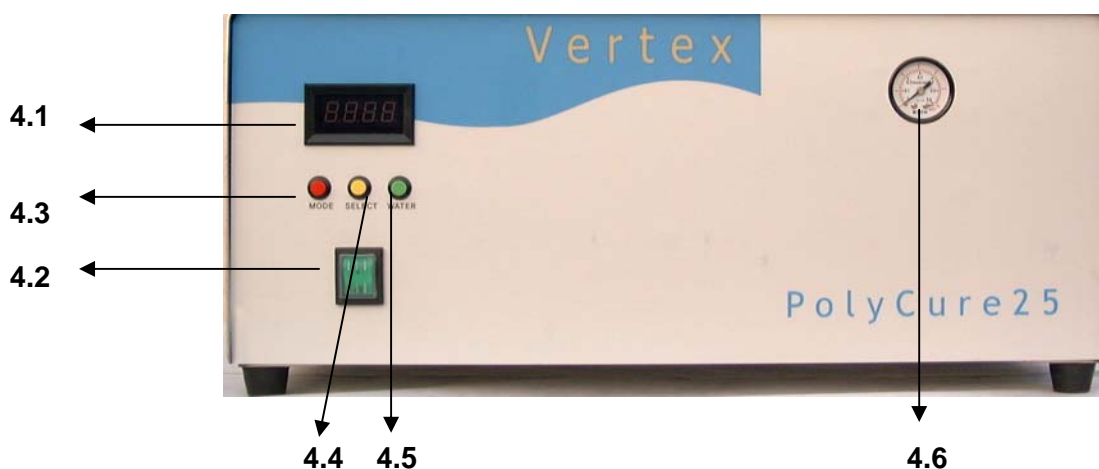
4.4.1 In idle mode/pre-heating mode or heating mode, user selects working time by pressing this button.

4.4.2 In working mode, only while user pushes this one, display can show temperature.

4.5 “Water” supply button (green round button)

Water can be filled into working chamber during pressing this button.

4.6 Pressure gauge



Picture 2

5.0 Water-out valve

By opening (horizontal position), water will come out from the chamber after performance. During operation, switch the valve into vertical position (picture 3).



Picture 3

6.0 Operation

6.1.0 Open cover as mentioned on picture 4.



Picture 4

6.1.1 Power switch initial mode



Picture 5



Picture 6

Press the **green** power switch (I), which is positioned on the front side of the PolyCure 25. Right after pressing the power switch, "PC25" (picture 5) will come up shortly in the left display and then only the left side display will show the temperature (picture 6) but the heater is off at this condition. The PolyCure 25 is ready to work and this is called as initial mode.



NOTE!! Don't handle power code with wet hand!



6.1.2 “Water” supply button (green round button)



Picture 7

By pressing the “Water” supply button, water can be filled into working chamber through water inlet valve on back-side (picture 1, 3.4) of the PolyCure 25 as much as user wants and confirm the water level through with water level indicator (picture 7) inside the chamber during pressing this button. Water level indicators are marked according to the flask number (Vertex Castaflask) for denture casting technique. The user can also fill the water by pouring.

6.1.3 “Mode” button (red round button) to start working cycle



Picture 8

By pressing the “Mode” button, user can start heating the water inside working chamber. Heating mode means the function to keep the water temperature at 55°C. While the heater is working, the dot (.) on the display will be blinking (example: 54°C). In case user start heating without water inside the working chamber, error message Err9 will appear on the display and the PolyCure 25 will automatically stop by overheating protecting sensor. When the temperature reaches 55°C (working idle temperature), the temperature on display (55°C) will be blinking.

6.1.4 “Select” button (yellow round button) to select working time



Picture 9

After user confirms that the temperature reaches 55°C, user can place the basket with the Vertex Castaflasks into the chamber. By pressing the “Select” button, you can select the working time according material polymerisation time. By pressing the “Select” button one time, 1P10. will appear in the display (= 10 minutes). By pressing the “Select” button two times, 2P20. will appear in the display (= 20 minutes). By pressing the “Select” button three times, 3P30. will appear in the display (= 30 minutes). After selecting the working time, the dot of display (10., 20. or 30.) will be blinking due to that normally the flask will absorb the temperature of water and water temperature will cool down so it means that machine will automatically go into heating mode.

6.1.5 “Mode” button (red round button) to start working cycle

After de steps 6.1.0, 6.1.1, 6.1.2, 6.1.3 and 6.1.4 are realized, press the “Mode” button. The PolyCure 25 will (after it is connected to a compressor) put itself under 2.5Bar pressure.

After working cycle, the air pressure will automatically come out through the air outlet valve (picture 1, 3.2) and the PolyCure 25 will automatically go into heating mode to keep the water temperature at 55°C.

Automatic function in working mode

A. Cover close sensor

In case cover is open, error message Err1 will appear on the display. In this case, user should re-close the cover perfectly and the “Mode” button.

B. Automatic Pressure supply sensor.

After user re-pressed the “Mode” button in heating mode, the PolyCure 25 will automatically fill air into working chamber (after it is connected to a compressor). User should confirm the pressure reaches at 2.5Bar through pressure gauge (picture 2, 4.6). In case the pressure doesn't reach at 2.5Bar within 1 minute, the error message Err2 shows up on display and the PolyCure 25 will automatically stop. In this case, user should confirm air supply once again. Then by re-pressing the “Mode” button, user can re-start working mode from A (it means that The PolyCure 25 will recheck the door and air supply).

C. After user re-presses the “Mode” button, the display will automatically change from temperature into working time to show the working cycle and working time.

D. If user want to re-confirm the water temperature. Only while user pushes the “Select” button, display will change from working time into temperature and show the current temperature. As explained above, the PolyCure 25 has been keeping the temperature at about 55°C since it went into heating mode.

E. Temperature regulating function

If the temperature will come down at below 45°C, the PolyCure 25 will automatically stop the working cycle and heat up the temperature to above 45°C. At this condition, °C on display will be blinking. When the temperature reaches at above 45°C, the PolyCure 25 will automatically re-start working cycle at the last point.

F. Working cycle finishing and alarm sound

When the working time is finished, the PolyCure 25 sounds the alarm and release air pressure automatically. After this, the PolyCure 25 will automatically go into heating mode from working mode.

6.1.6 “Mode” button (red round button) to start working cycle

At working mode, please press the “Mode” button once again if you want to stop working cycle. The PolyCure 25 will go into Idle mode.



NOTE! Don't try to open the cover during working cycle!



7.0 Power off

Press the **green** power switch (0), which is positioned on the front side of the PolyCure 25 again, so all power will be closed.

8.0 Error message

8.1.1 Err1

When the cover is not properly closed error message Err1 will appear in the display. Check if the cover is properly closed.

8.1.2 Err2

If air pressure couldn't reach at 2.5 bar within 1min in working mode, this message would show up.

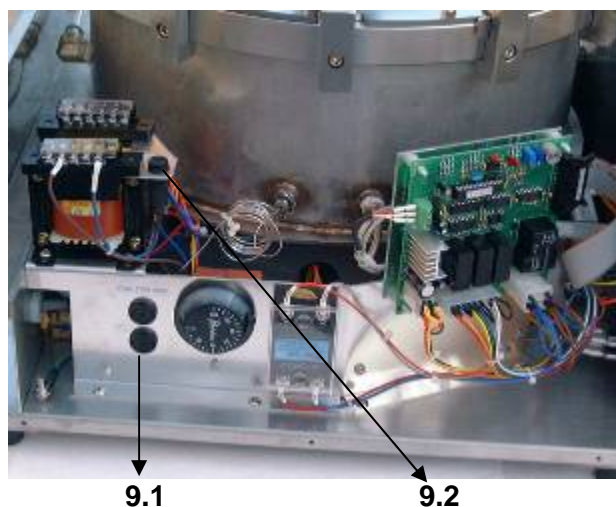
8.1.2 Err9

When there is no water inside chamber and user would try to heat up the PolyCure 25, this message would show up.

9.0 Fuse

9.1 Main fuse: T12A x 2

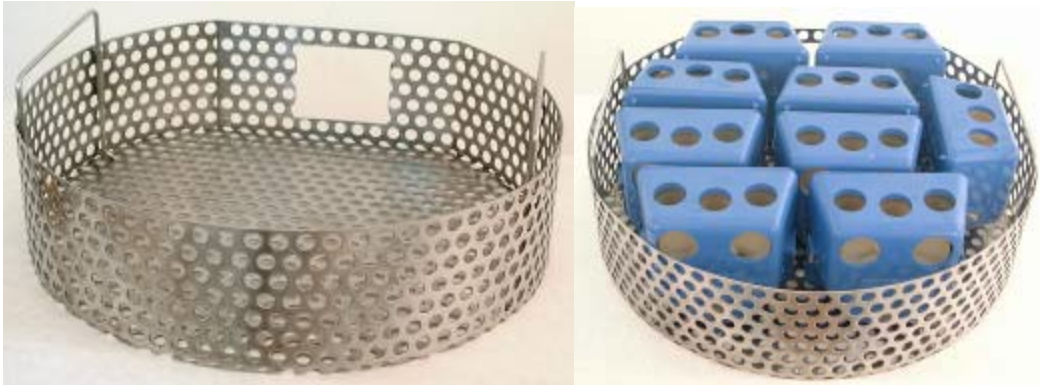
9.2 Sub fuse : T0.5A x 1



Picture 10 (left side of the PolyCure 25)

10.0 Accessories

One Basket (without Vertex Castaflasks)



Picture 11

11.0 Specifications

- 11.1 Dimension in cm: 55(w) x 51(d) x 42(h)
- 11.2 Main fuse: T12A x 2 / sub fuse: T0.5A x 1
- 11.3 Voltage: 230V,10A, 50/60Hz
- 11.4 Power consumption: 2300W

12.0 Distributor Information

12.1 Visiting address

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Note! Specification subject to change without notice!

