

Gelovit 200 – Software V1.00



Service manual V1.0 Gelovit 200

This handbook describes functions, which are not described in the manual of the device. It is only valid for Gelovit 200 with brushless drive.

1. Commissioning

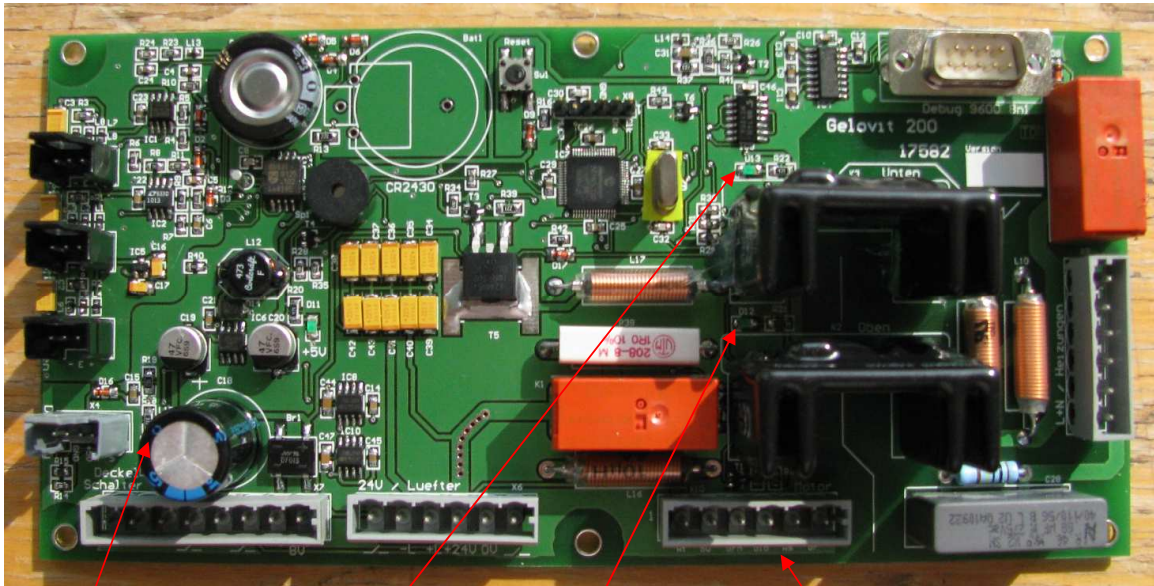
The device shows first the software version in the display and then the unit of the temperature in °C or °F.

2. General notes

The motor starts running at a specified temperature of 50°C/122°F and is accelerated and braked by ramps. The speed of the motor and the fan is controlled by the software. The heating circuits are proportionally controlled to the required performance.

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3. Connections and LEDs



LED cover LED heater (bottom) LED heater (top) connections of the motor

Wiring of the Motor (from left to right): Red - black - green - yellow - white - Gray

4. Settings



4.1 Shifting °C / °F

Press and hold the **timer button** and the **cycle button** and switch on the device. When the device has beeped 4 times, release the buttons. The new setting will be displayed.

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4.2 Resetting hours of operation (device)

Press and hold the **cycle button** and switch on the device. When the device has beeped 4 times, release the buttons.

4.3 Resetting hours of operation (motor)

Press and hold the **timer button** and switch on the device. When the device has beeped 4 times, release the buttons.

4.4 Fan test

Press and hold the **T1 button** and switch on the device. When the device has beeped 4 times, release the buttons. By pressing the **T1 button**, different levels in percent are switched and shown in the display.

Attention: The fan speed is not proportional to the percentage on the display. Voltage fluctuations of the power supply are automatically adjusted. The device remains in the fan test mode, please switch it off/on the device to turn back to the user mode.

4.5 Motor test

Press and hold the **T2 button** and switch on the device. When the device has beeped 4 times, release the buttons. By pressing the **T2 button**, different levels in percent are switched and shown in the display.

The speed of the motor is proportional to the percentage display. **T2 LED** flashes in the rhythm of the rotation sensor. Switch off/on the unit to return to the user mode.

4.6 Test of heaters and sensors

Press and hold the **T3 button** and switch on the device. When the device has beeped 4 times, release the buttons. Heaters can be switched as follows:

T1 button: heater (top) on/off = **LED T1** on/off

T2 button: heater (bottom) on/off = **LED T2** on/off

The display shows the pot temperatures top and bottom in °C without decimal places (eg 47:68). When the temperature of 99°C was reached, the heaters are automatically switched off (safety shut down). Switch off/on the unit to return to the user mode.

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4.7 Readout of the hours of operation (device)

Switch on the device and wait until the device is ready to work. Press and hold the **cycle button**. When the device has beeped 4 times, release the button. The device shows you the operating hours now. The displayed value must be multiplied with 10.

4.8 Readout of the hours of operation (motor)

Switch on the device and wait until the device is ready.
Press and hold the **timer button**. When the device has beeped 4 times release the button. Device shows the operating hours of the motor now. The displayed value must be multiplied with 10.

4.9 Calibrating the sensors

Switch on the device and wait until the device is ready. Press and hold the **T1&T2&T3 buttons**. When the device has beeped 4 times, release the buttons.
With + / - buttons it is possible to set a correction value of ± 0.9 °C for the sensors. Upon delivery, this value is 0. The device remains in the calibrating mode, please switch it off/on the device to turn back to the user mode.

5. Known bugs

Currently no

6. Elimination of faults

Fault	Cause	Remedy
SOS sound	display or cable to the display defective	Call Customer Service Dept.
E01 E02 E03	Gel sensor defective Lower temperature sensor defective Upper temperature sensor defective	Sensor exchange, PCB exchange
E04	Rotary sensor defective	Motor exchange, PCB exchange
E05	Clock defective	PCB exchange
E20	24V supply failure	Check fuses, Check power supply at PCB
E30,31,32	engine brake failure	PCB exchange

Service manual V1.0 Gelovit 200**Additional information**

E01 – E03 are created, when the sensor signal is $< 1^{\circ}\text{C}$ or $> 120^{\circ}\text{C}$. The errors switch off the motor and the heaters (safety). The device cannot be used any longer.

E04 is generated by the internal rotation sensor of the motor. This error is appearing alternately with the gel temperature in the display (Emergency operation).

E05 is generated when the timer for the required clock doesn't run. This bug switches off the motor and heaters, the device cannot be used any longer. Power failures during timer operation are intercepted by a maintenance-free storage capacitor.

E20 is generated when the 24V power supply for the motor has failed. This bug switches off the motor and heaters, the device cannot be used any longer.

E3x is generated when the cover is opened while the motor is running. The cover switch controls a relay and a brake of the motor. If the motor doesn't stop immediately, the braking function has failed. The emergency operation is possible, **but strongly discouraged. Keep the cover closed!**

Note: the previously used error E8 (cover open) was replaced by the word '**OPEN**' in the display.