VITA - Inceramat

Operating Manual
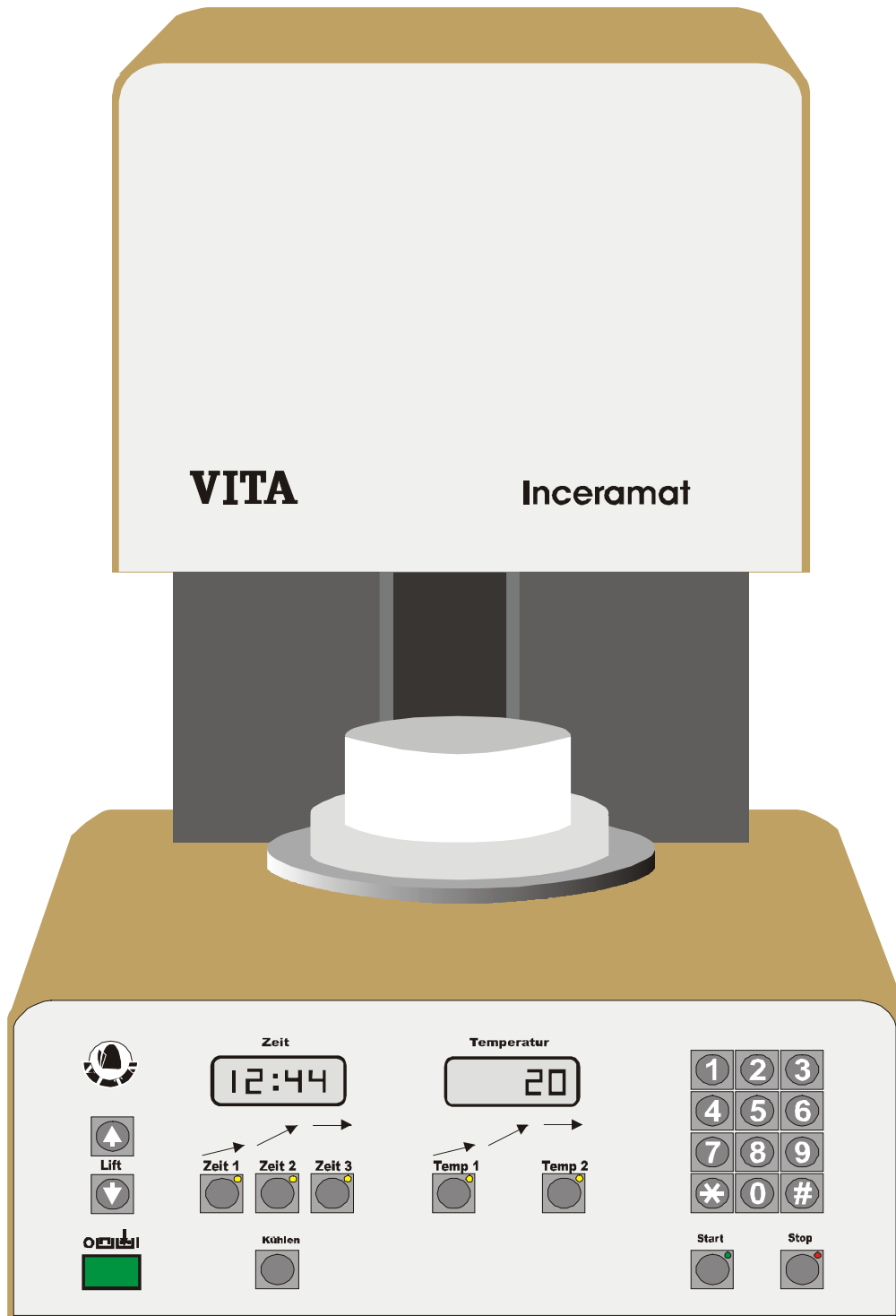
Zeit

12:44

Temperatur

20

Lift

Zeit 1 Zeit 2 Zeit 3

Temp 1 Temp 2

1 2 3
4 5 6
7 8 9
* 0 #

Kühlen

Start Stop

Table of Contents

1   Technical specification

Dimensions and weight:

Height: 595 mm
Width: 370 mm
Depth: 410 mm

Interior dimensions of firing chamber:

Diameter: 110 mm
Height: 80 mm

Weight: 24.1 kg

Power supply: 110 V / 230 V   50/60 Hz

Max. power consumption: 110 V   max 2.0 KW
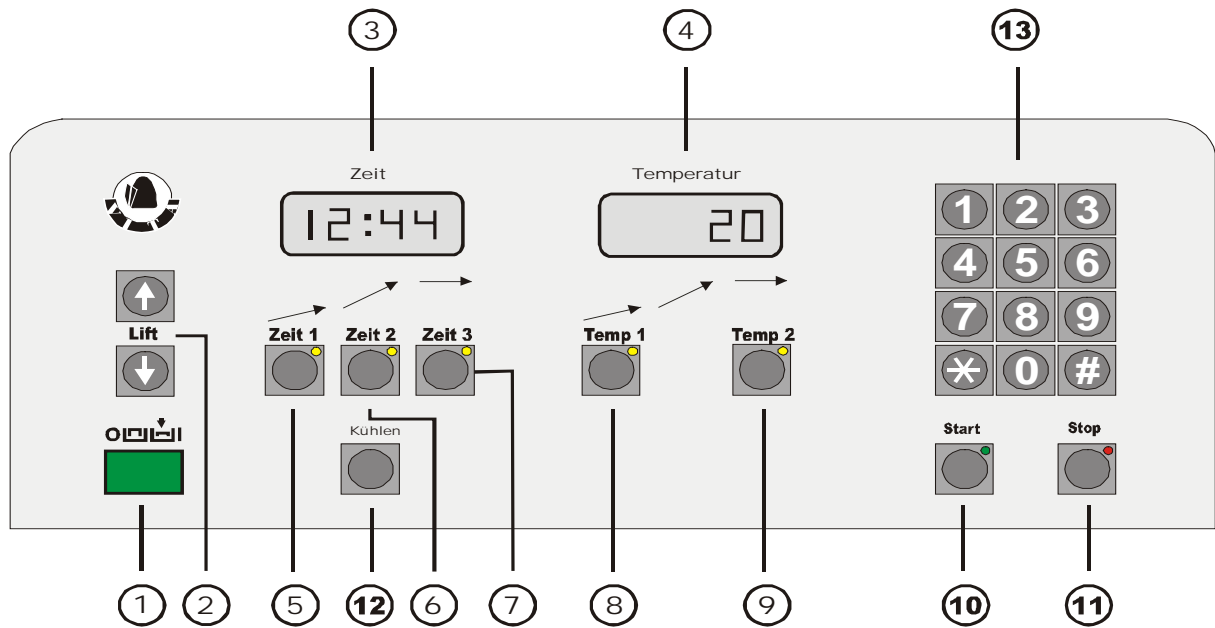   230 V   max 1.5 KW

Max. firing chamber temperature: max. 1200°C

Presentation:

1 carton contains:

    1 VITA INCERAMAT
    1 spare muffle
    1 firing tray
    1 mains power lead
    1 pair of furnace tweezers
    1 operating instruction

2 Display and Controls

1 ON / OFF switch
2 Lift – UP /DOWN
3 DISPLAY showing: firing cycle number, time of day, automatic starting time and firing time.
4 SET and ACTUAL temperature display
5 Lighted button indicating time segment 1
6 Lighted button indicating time segment 2
7 Lighted button indicating time segment 3
8 Temperature level 1: drying
9 Temperature level 2: final temperature
10 CYCLE START button
11 CYCLE STOP button
12 AUTOMATIC starting time button
13 Input buttons

3 Installation

1. The furnace must be placed at least 25 cm from the nearest wall.
2. Connect the furnace to mains, using the cable supplied.
3. Press th ON/OFF switch (1) ON, display (4) indicates the temperature in the firing chamber. Display (3) shows the firing cycle number.
4. Press button (2) to lower the lift and place the firing tray on the base. The furnace is now ready for use.

4 Programming the time of day

1. Press the ON/OFF switch (1) ON.
2. Press the green input button (13) and hold it in until dashes appear on the TIME display (3).
3. Press input button No. 1 (13) and hold it in until the TIME display flashes.
4. Programme the time of day (hrs./mins.) using the input buttons (13).
5. Press the green input button to enter the time.

5   Selecting a firing cycle

1.   Press the ON/OFF switch (1) ON.
2.   Select the cycle number by pressing the corresponding input button (13). Cycle Nos. 0 – 9 may be selected

6   Reviewing firing cycle conditions

3.   The TIME SEGMENT buttons 1 – 3 (buttons (5), (6) and (7)), are pressed to display the time values stored in the firing cycle.
4.   The TEMPERATURE LEVEL buttons 1 and 2 (buttons (8) and (9)), are pressed to display the temperature values.

Caution: In order to review a temperature or time value, briefly press the relevant button. The value will be displayed for approx. 3 seconds. Holding the button in for a longer period of time causes the

value to flash on the display. This is cancelled by pressing the green input button (13).

7   Changing and selecting the time and temperature values:

All programmed values can be changed, as follows:

1.   Select the desired firing cycle by pressing the corresponding input button (13). Cycle numbers 0 – 9 may be selected.
2.   Select the value to be changed by pressing the relevant button and holding it in until the display flashes. When changing time values, press button (5), (6) or (7) and for temperature values press button (8) or (9).
3.   Programme the new value using the input buttons (13).

The following values may be selected:

Time segment: 1:   0 – 6.00 hours
Time segment 2:   0 – 6.00 hours
Time segment 3:   0 – 6.00 hours
Temperature 1:   80 – 300 °C
Temperature 2:   up to 1200 °C

4.   Press the green input button (13) to enter the new value.

Caution: Should you attempt to programme an incorrect value, the TIME display (3) will indicate ERROR. This is cancelled by pressing the STOP button (11) (refer to ERROR SIGNAL section).

8   Running a firing cycle:

1.   Select the desired firing cycle by pressing the corresponding input button (13).
2.   Check the time and temperature values.
3.   Place the restoration on the firing tray and press button (2) to raise it into the firing chamber.
4.   Press the START button (10) and the cycle will run. The green light in the START buuton will illuminate constantly and the red light in the STOP button (11) will flash. The corresponding yellow status light will either flash or illuminate constantly to indicate which time segment is currently running. The corresponding yellow light will illuminate to indicate which temperature ramp is currently running.

Note: When starting a firing cycle, the yellow light indicating time segment 1 may flash for the first minute. The actusl firing time does not begin until the light illuminates constantly and the programmed time is displayed (3).

9   Automatic Starting Time:

Programming and activating the automatic starting time:

After switching on the furnace and selecting the firing cycle, the automatic starting time can be programmed.

Checking the starting time:

Briefly press the AUTO starting time button (12), the display (3) will indicate the programmed START time.

Changing the starting time:

Press the AUTO button (12) and hold it in until the TIME display (3) flashes. Programme the desired starting time using the input buttons (13) and press
the green button to enter the new value.

Activating the automatic starting time:

Press the AUTO button (12) and hold it in until the TIME display (3) flashes. Press the START button (10). The TIME display (3) indicates the time of day. The red light in the STOP button (11) will flash and the yellow light in the AUTO button (12) illuminates constantly. The firing time will begin at the programmed time.

Cancelling the automatic starting time:

Press the STOP button (11).

10 Error signals:

E01   Programming error – time segment 1
E02   Programming error – time segment 2
E03   Programming error – time segment 3
E04   Programming error – temperature level 1
E05   Programming error – temperature level 2
E06   Programming error – automatic starting time
E07   Programming error – time of day
E77   PCB malfunctioning
E99   Thermocouple malfunctioning

11 Displaying the running time:

1.   Press the ON/OFF switch (1) ON.
2.   Press the green input button (13) and hold it in until dashes appear on the display.
3.   Press input button No. 4 and hold it in, the TIME display (3) will indicate the running time in hours. Once the button is released, the display will indicate the firing cycle number again.

12 Firing cycle chart:

Firing	Firing cycle	Time Segment 1	Time Segment 2	Time Segment 3	Temp. 1	Temp. 2
Sinter firing	1	6.00	2.00	2.00	120	1120
Glass infiltration firing for single crowns	2	0.00	0.30	4.00	200	1100
Glass infiltration firing for bridge frameworks	3	0.00	0.30	6.00	200	1100