Dear Customer

Thank you for having purchased the Programat CS2. In order to render the setting-up and the initial use of the furnace as easy as possible, we have prepared these short instructions.

These short instructions replace by no means the detailed Operating Instructions. We therefore kindly ask you to thoroughly read the Operating Instructions and follow the notes contained therein.

Enjoy working with the Programat CS2.
1. Installation

Remove the furnace components from their packaging and place the unit on a suitable table. Please observe the instructions on the outer packaging. Make sure the voltage indicated on the rating plate complies with the local power supply. If this is not the case, the furnace must not be connected.

A Mounting the cooling tray
Remove both screws for the cooling tray (1).

B Place the cooling tray (2) on the frame plate (3). Make sure that the cooling tray is correctly positioned on the frame plate.

C Secure the cooling tray with the two screws (1).

D Placing the firing plate
The firing plate (4) can now be placed on the firing plate holder (5).

E Mounting the furnace head
The furnace head is best mounted with the back of the furnace pointing towards the user. Lift the furnace head with both hands as shown in the picture and place it on the furnace head mounting.

F Mount the furnace head as shown in the picture until you feel it click into place. Make sure that neither the firing plate nor the insulation is damaged during the mounting of the furnace head.
Establishing the connections
Connect the cables of the furnace head with the furnace base.
Proceed as follows:
- Connect vacuum hose (6).
- Insert the thermocouple plug (7). (Make sure that the polarity of the plug is correct.)
- Insert the heater plug (8).

Insert the heater plug into the specified connector. Secure the heater plug by rotating it by 45°.

Closing the protective cover
When all cables are correctly connected to the base, close the cover (9) to protect the connections until you feel it click into place.

Mounting the connection cover
The connection cover (10) can now be mounted and secured with the screws.

The furnace may only be used with the protective cover closed and the connection cover mounted!

Establishing additional connections
Power connection
Make sure that the voltage indicated on the rating plate complies with the local power supply. Subsequently, connect the power cord (11) with the power socket of the Programat (12).

Connecting the vacuum pump
Connect the vacuum pump plug (13) with the vacuum pump socket (14). We recommend using only the VP4 vacuum pump from Ivoclar Vivadent, since this pump is especially coordinated with the furnace. If other pumps are used, please observe and do not exceed the indicated maximum power consumption.
2. User interface

The Programat CS2 has a wide-screen colour display. The keypad and the touch screen allow user-friendly handling. By tapping slightly with your fingertips on the touch screen, the buttons are activated and the furnace performs the requested function.

Keypad:

**Home**
Returning to «Home» screen (main menu)

**Power-saving key**
This key activates the power-saving function.

**Open furnace head**

**START (Start LED)**
Starts the selected program. The green LED indicates that a program is running. If the program is paused (1 x STOP), the Start LED flashes until renewed pressing of START results in the program being resumed.

**Program key**
Pressing once: The currently selected program is displayed.
Pressing twice: The program selection via number entry is accessed.

**Close furnace head**

**STOP**
A running program can be paused by pressing the STOP key and terminated by pressing the key twice. Movement of the furnace head can be stopped at any time by pressing STOP. Acoustic signals can be turned off by pressing the STOP key.
3. Operation

**A Turning the furnace on**
Connect the power cord with the wall socket.
Switch the On/Off button to position «I».

After the self-test, the display shows the home screen or the last selected program.
To change to the home screen, press the HOME key. All functions of the Programat can be selected from this screen.

**B Selecting the program**
Select the required program.

**Loading the furnace**
Open the furnace head by pressing the OPEN FURNACE HEAD key and place the object to be fired with the firing tray in the furnace.

**C Starting the program**
Press the START key to start the program. The LED lights up green.
The program progress is shown in the display.

At the end of the program, the furnace head opens automatically. As soon as the OSD lights up green, the furnace is available for the next program start.
4. Editing the firing parameters

Parameters are set or edited in two steps.
Example: Setting the holding temperature

A In the program screen, press the [Parameter] button.

B Press the [T] button.

C Enter the desired holding temperature and confirm by pressing the green button.

The holding temperature has been changed successfully. All parameters shown in the firing curve can be changed / edited the same way.

Changing program options
By pressing the [Options] button, the menu for additional program options opens.
Example: Open the write-protection program

A In the program screen, press the [Parameter] button.

B Press the [Options] button.

C Edit the desired option and return to the program view by pressing the [Close] button.

Ivoclar Vivadent programs are partially blocked and cannot be edited. Please refer to the Operating Instructions for more detailed information.