Shenpaz
Dental Furnaces

ZIRCONIA

Blazir

USER MANUAL

Ver 1.11 2018

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Ver 1.11 2018

1. Explanation of Symbols

Warning indications

Warning indications in the text are marked with a color-backed triangle and boxed.
In case of hazards through electricity, the exclamation mark in the warning triangle is substituted by a lightning bolt.
Signal words at the beginning of a warning indication specify the type and severity of the consequences, if the measures to avert the hazard are
not adhered to.

NOTE means that property damage can occur.
CAUTION means that light to fairly serious personal injury can occur.
WARNING means that serious personal injury can occur.
DANGER means that serious personal injury can occur.

Other symbols in the Manual

Important information that do not lead to hazards for humans or property damage are marked with the icon aside and are also boxed.

2. General Safety Instructions

When installing, starting-up and operating the machine, always observe the following safety instructions:

DANGER:
This product does not comply with the Directive.
Do not use in explosive atmospheres!
Do not operate with explosive gases or mixtures!

CAUTION:
A defective machine can lead to malfunctions!
On detection of damage or a functional defect of the machine:
Label the machine as defective.

WARNING:

Operation with power sources, products, consumables, auxiliary aids, etc., which are subject to the Ordinance on Hazardous Substances or in any way has an impact on the health of the operating personnel is not permitted.

NOTE:
Switch the machine off when not in use or unsupervised for longer periods, e.g., overnight. This method of saving electrical energy also benefits the environment.

NOTE:
Increased wear of door insulation, insulation, heating rods and furnace housing!
Avoid opening the furnace when in hot condition (above 300 °C the furnace is Locked)
NOTE:
Before opening the furnace while Power is "off" from the back, you must be sure that the furnace is cold or below 300 ° C- any other use can brake the furnace Heating element, or burn the paint.(IF FURNACE IS SHUT OFF FROM BACK ROCKER SWITCH NO SECURITY PROTECT USER FROM OPENING THE FURNACE IN HOT TEMPERATURE THE ELECTRICAL PROTECTION IS OFF)

NOTE:
Starting-up and operation of the machine may only be carried out by trained specialized personnel.

Warning

ATTENTION!
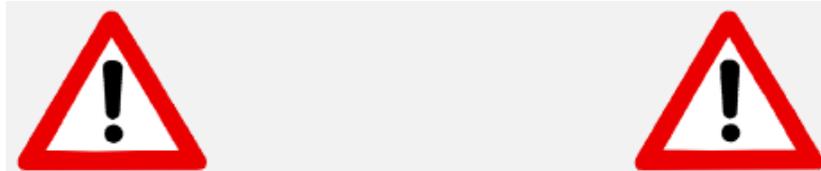
<div align="center" style="color:red">**ATTENTION!**</div>

Mount on non-flammable surface material only!

Take out the furnace with the assistance of two persons. To do so, each person will take a side by holding the bottom of the furnace with one hand and the top side with the other hand.

Do not pull out the furnace by its support in order to avoid damages.

CAUTION:	PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE OPERATING THE FURNACE.

- Only use ZrO2 powders with recognized approval for use in dental furnaces.

- During use the area around the furnace table is very hot approach and contact with the door and top of the furnace. Take out the tray only when the furnace is cold.

- Dental work must only be placed on the furnace tray.

- In the event of an external power failure while the furnace is in operation:

    1) Disconnect the power supply cord from the electrical power outlet.
    2) Use only authorized Supply cord with the right voltage -230 V 50Hz/ 60 Hz(supply with the furnace)

Caution!
Risk or Danger
Refer to documentation.

Caution!
Risk of electric shock

Caution!
Hot surface!

2.1 Location and environmental conditions

a) Altitude up to 2000 meters;

b) Ambient Temperature 5ºC to 40ºC;

c) Maximum relative humidity 80% for temperature up to 31ºC decreasing linearly

relative humidity at 40ºC;

d) Mains supply voltage fluctuations up to + - 10% of the nominal voltage;

e) Transient over voltages typically present on the mains supply category II;

f) Applicable rated pollution – Degree "2"

g) distance fron electrical plug must be up to 2 Meters

2.2 Rating & Fuses

230V 50Hz/60Hz
Circuit breakers fuse 16 A/230V
Circuit Breakers Auto 10KW fuse

2.3 Power Source

Connect the furnace to a grounded power outlet socket.

Be certain that the power supply conforms to the electrical specifications of the Blazir.

A single source of electricity must be used.

2.4 Standards and approvals

CE Declaration of Conformity

This product was designed and manufactured based on careful selection of the harmonized standards to be observed, as well as additional technical specifications. It thus corresponds with the state-of-the-art and ensures maximum safety.

In terms of design and performance, this product complies with the European Directives and the supplementary national requirements. Conformity has been confirmed with the CE marking. The product's Declaration of Conformity.

1. CE – Tested to 61010-1:2001 (3rdEdition); EN61010-1;2001(3rd Edition)
2. ICES-003 Issue 4:2004 CAN/CSA-CE/IEC CISPR 22:02
3. Intertek ETL Listed - Conforms to UL Std. 61010-1 Certified to CAN/CSA Std. 61010-1

"This product has been tested to the requirements of CAN/CSA-C22.2 No. 61010-1, Third edition, including Amendment 1, or a later version of the same standard incorporating the same level of testing requirements

Class A equipment

Equipment suitable for use in all establishments other than domestic and those directly

connected to a low voltage power supply network which supplies buildings used for domestic purposes.

3. Machine specifications

Blazir is a sintering furnace for dental zirconia oxide materials.

3.1 Delivery Scope

1 High-temperature furnace, model name, Blazir
4 SiC Heating rods
1 Mains cable 2 meters
1 Sintering tray

After unpacking, check the machine for completeness and possible transport damages.
Please claim any transport damages immediately with your supplier.
For transport note that the heating element are removed to avoid any damage

3.2 Intended Use

Blazir is a high-temperature furnace for sintering milled ZrO_2 units up to 1530°C. The compact furnace is a table-top model. This high-temperature furnace has been specially developed for sintering most of the standard Zirconia products on the market. Only the Zirconia materials whose properties and sintering temperatures are known may be used in the furnace.

Any other or further-going use, such as the processing of other products than those intended for, as well as the handling of hazardous substances or materials hazardous to one's health, does not apply as under the intended use.

As to the materials being used in the furnace, it must be known whether they are aggressive to or even could lead to destruction of the insulation of the heating rods. It is prohibited to remove safety devices, bypass them or put them out of operation.

Unauthorized modifications/alterations of the machine shall also void the warranty.

The set-up instructions and the safety regulations must be followed, as otherwise the furnace is considered as not being used as intended for, and any
and all claims against Shenpaz shall become void.

3.3 Components and Interfaces
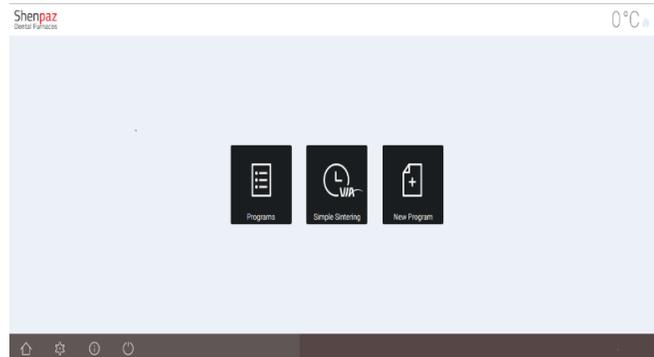
Figure 1- Main screen
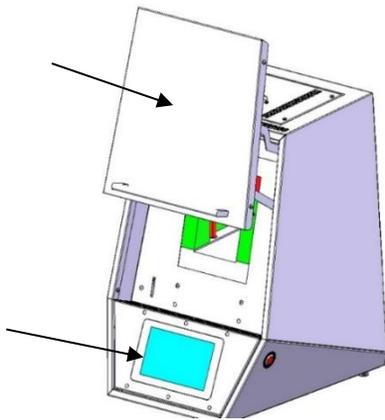
Figure 2 - Furnace overview, front
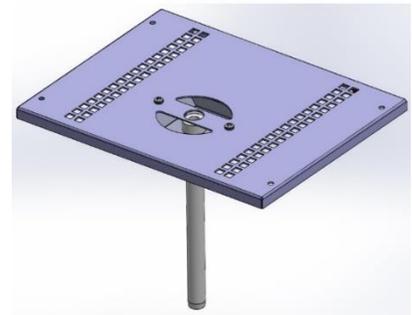
Figure 3 - Top cover with exhaust airpipe

Fig 2-b: Furnace door, open
Fig 2-c: LCD touch screen
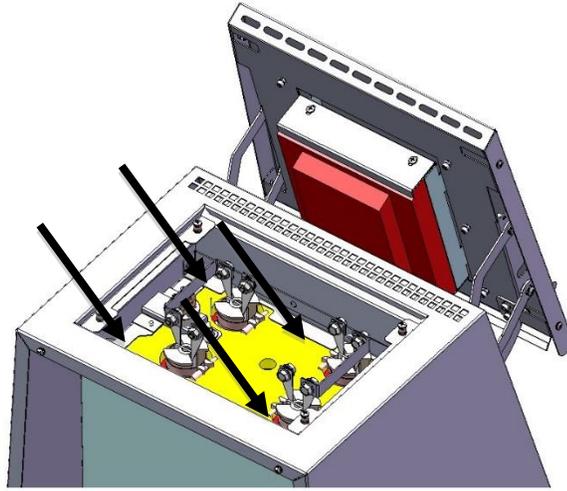
Figure 4 - Mounted SiC heating rods, furnace top

Electric socket

Fuse compartment

Emergency switch

Main rocker switch

Ethernet connection
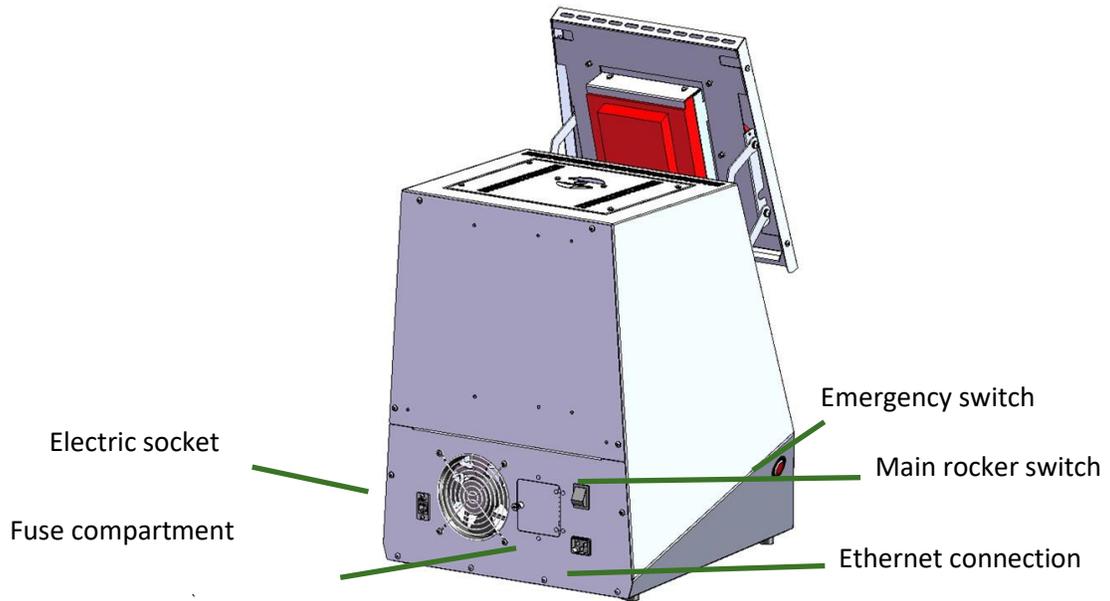
Figure 5 - Back panel, connections

3.4 Display , screens overview and programming possibility

The display is a touch screen. For editable fields, pop-up keypads will open.

Icons:

		Home icon, bring you back to homepage
		Setting, bring you to internal setting of the furnace
		Info, the version of the software
		Save, Keep in memory programs and parameters
		Ramp, Speed of heating up or down
		Target temperature, the temperature the furnace is heating to
Minutes		Time of holding on Step
		Showing on the right of the screen a running cycle: Blue is cooling and cold mode. Red: Firing mode. Pressing this icon will revert to graph screen.
		Exit button / to shut down the furnace it is recommended to use this button
		Next screen
		Previous screen
		Delete / step/ program/value
		Edit program or view before starting cycle
		Search- a specific program or cycle
		Start Cycle / from the graph screen only
		Stop cycle / from the graph screen

1. MAIN SCREEN -

After turning on the furnace by flipping the main switch at the back of the furnace, the Logo "SHENPAZ" will appear for few seconds, followed by the main screen.

There are 3 ways to start to operate the furnace:

1. Add a new program
2. VIA system
3. Select existing preset programs

4.
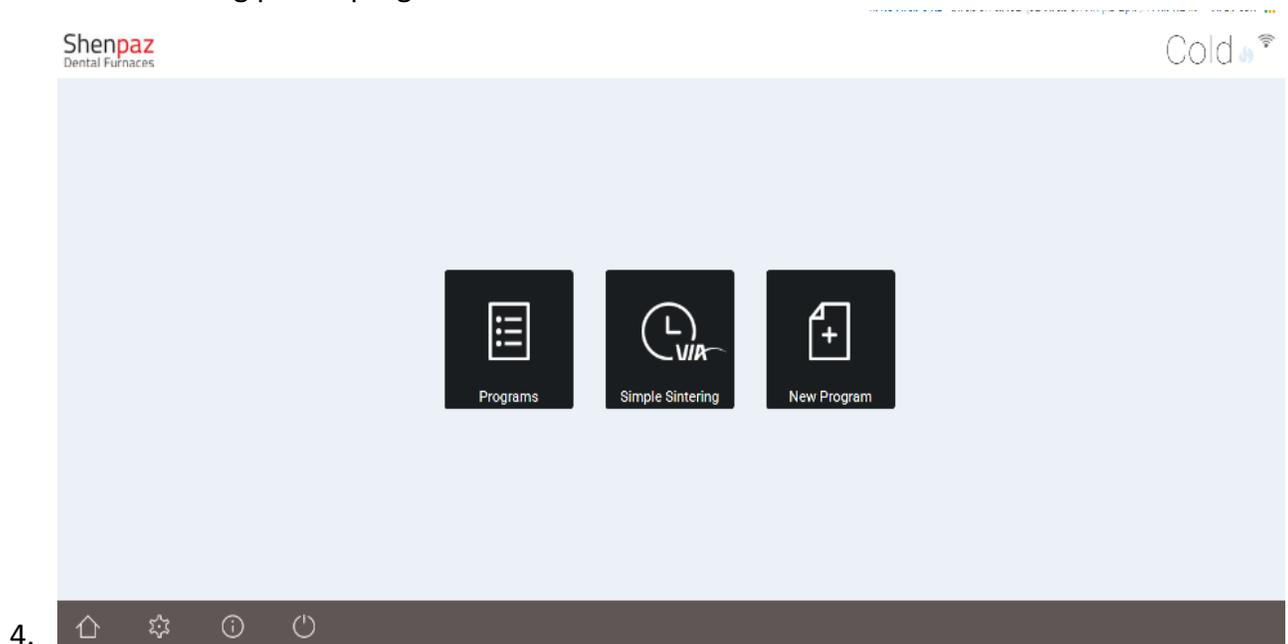
Figure 6 - Main screen

1. NEW PROGRAM

Create a new program that is not in the furnace preset database.
Select the icon "New Program" from the Main screen.

There are two methods to create a new program.

a. Select the ZrO$_2$ brand from pre-listed brands, assign a new name, and edit the parameters.

b. After creating a name, manually enter all new parameters.

a. A screen will prompt you to choose a listed product and assign a new name. After assigning a name, presses create.

An editing screen will open to allow you to create your own program
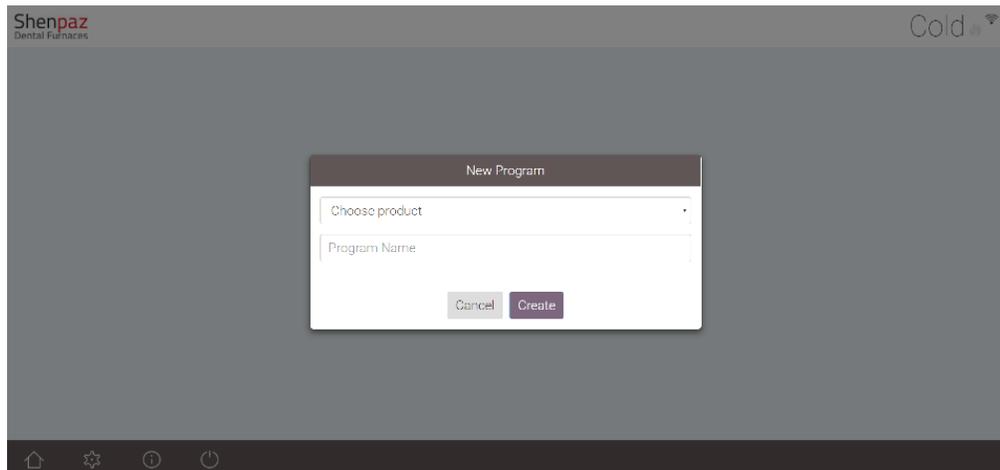
The Blazir allow you to program without any restriction any profile of cycle from 1 step up and one step down to an unlimited quantity of steps according to the different requirement of the ZR manufacturer.
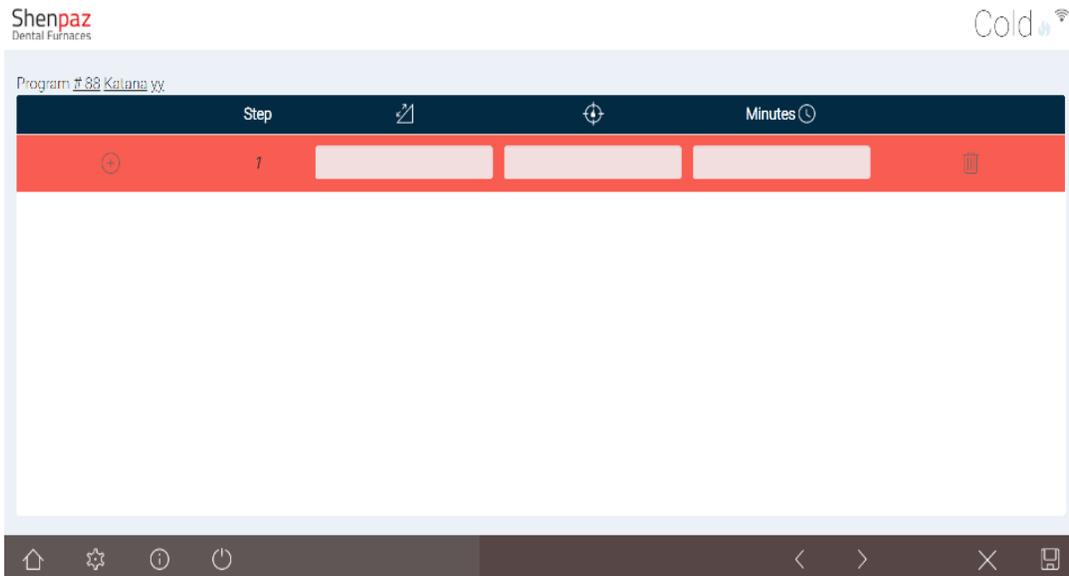
In case of error, the field will appear in reddish color, thus indicating to the user that the parameter setting is not within range of the furnace or missing .
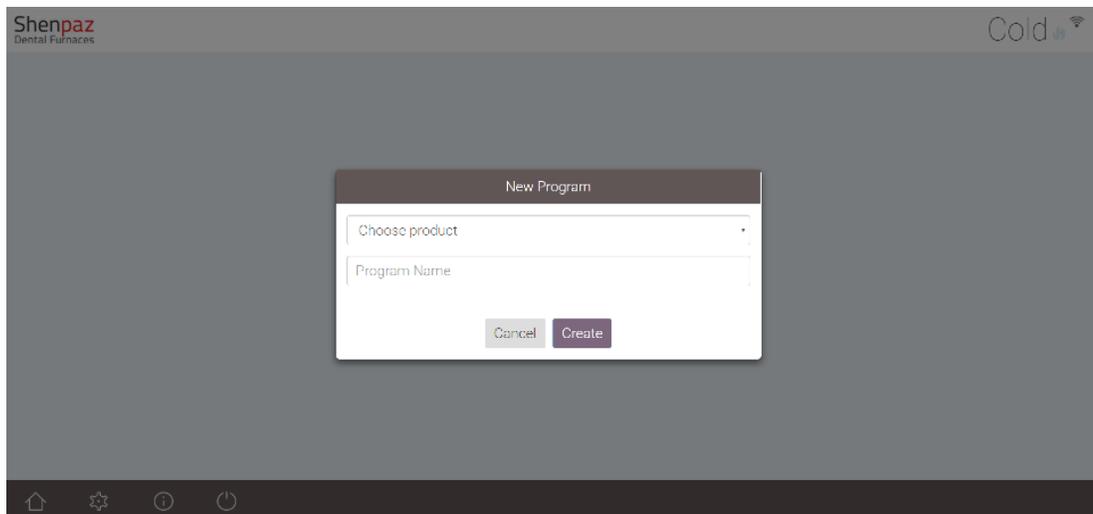
b. The product brand remains on default, unless edited

After assigning a name, press ACCEPT.
An editing screen will open to allow you to create your own program

Choose program name from list or use the Generic option
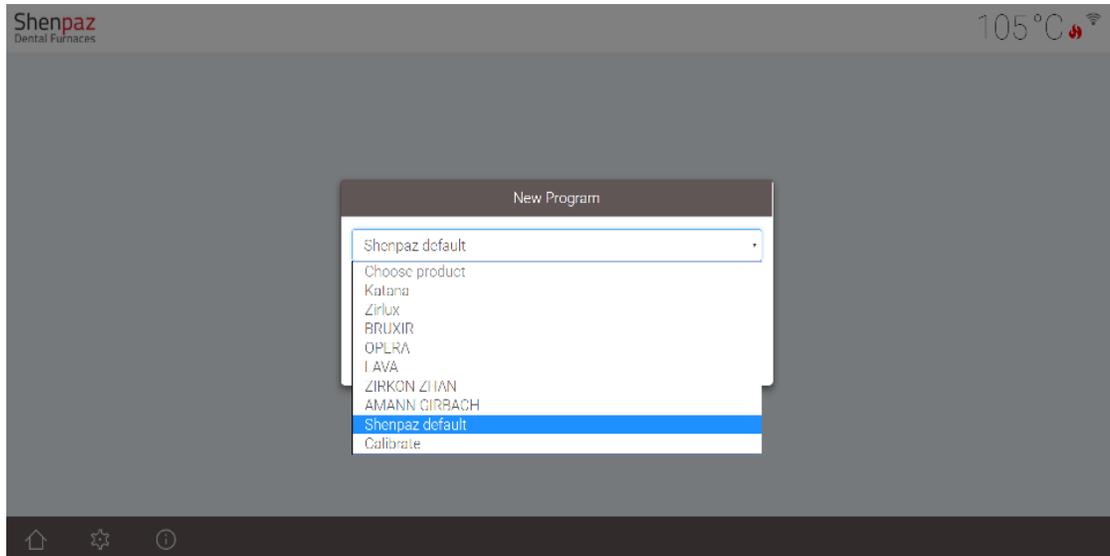
2.VIA SCREEN

By selecting the icon "VIA – simple sintering" in the Main Screen, you will access the Shenpaz easy sintering Wizard. A limited list of tested ZrO brands are preset under VIA.

Figure 9 - VIA Simple Sintering screen

After selecting an available ZrO$_2$ brand from Product Name, there are 4 parameters that need to be entered. A program will be recommended and able to be launched automatically, once reviewed by the operator.

TRAY – select from a choice of 1,2 or 3 trays
COOLING – select normal or fast*
COLORING – select YES or NO depending if using a colorant
QUANTITY – enter total quantity of crowns

VIA will recommend a program in the Program Number field.

If acceptable, Press the "Forward" arrow icon and a graph will appear. Review the recommended program before running the program.

Start the program by pressing the Start icon.

- *FAST COOLING meaning: Activation of an internal cooling system that shortens the overall full sintering cycle.*

3-PRESET PROGRAMS (from list)

By selecting the icon "Programs", you access the preset list of programs in the furnace.
Scroll to the requested program you wish to run.

#	Product	Program Name	Date	Favorites
1	Katana	UIML1	08.14.2017	*1 🔒
2	Katana	UIML2	08.14.2017	*1 🔒
3	Katana	UIML34	08.14.2017	*1 🔒
4	Katana	UIML45	08.14.2017	*1 🔒
5	Katana	UIML6	08.14.2017	*1 🔒
6	Katana	UIML7	08.14.2017	*1 🔒
8	Katana	UIML9	08.14.2017	*1 🔒
9	Zirlux	SI16 1	08.14.2017	*1 🔒
10	Zirlux	SI16 2	08.14.2017	*1 🔒
11	Zirlux	SI16 3	08.14.2017	*1 🔒
12	Zirlux	SI16 4	08.14.2017	*1 🔒

Figure 10 - Program screen

Highlight the chosen program, press the icon" pencil" and the program parameters will appear on the next screen. Only on editable cycle the Pencil will appear.
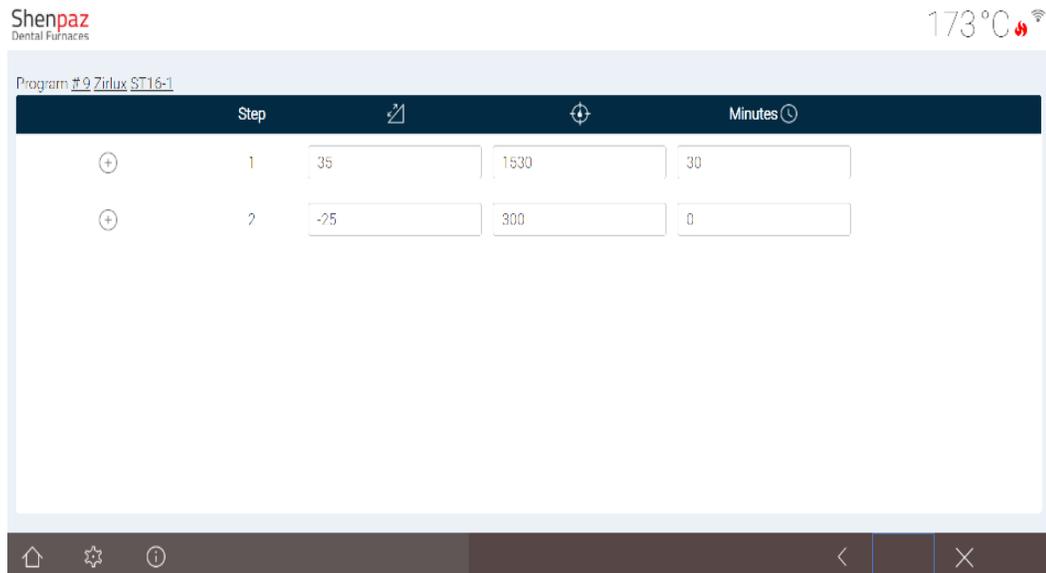
Figure 11- Parameters screen
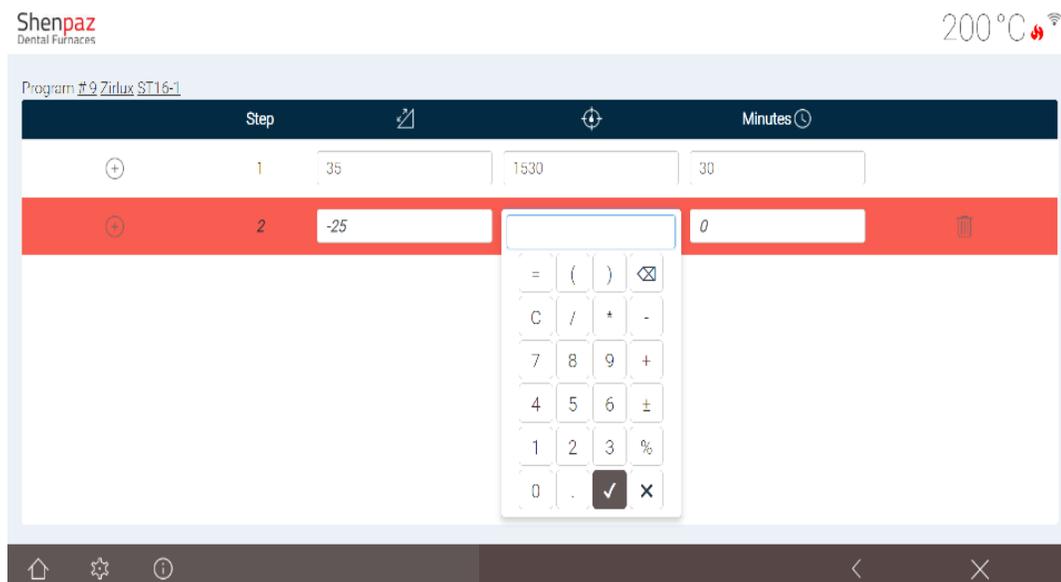
The parameters screen shows the programs parameters for your review and modification if desired. The parameters can be modified only if the program is not locked. Locked programs are password protected. (Cannot be modified or erase).

Modifications are simply performed by selecting a field. A keyboard pop-up will appear, modify value and save the program change to memory by pressing the Save icon in bottom right corner.

To start the program press on the "Forward" arrow , a program graph screen will appear. Press the "start" icon to begin sintering cycle.

Figure 12- cycle graph

SETTINGS SCREEN

The Settings screen allows the user to change the settings of the furnace.
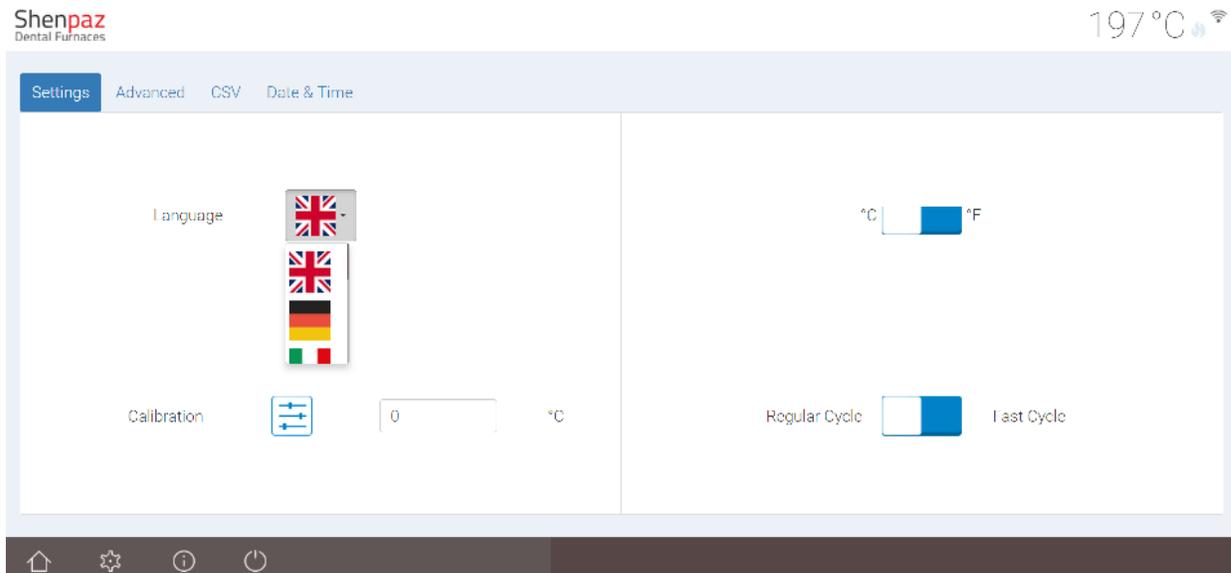
Figure 13 - Settings screen

LANGUAGE – a drop box is opened with a list of languages. By choosing the relevant flag, the factory preset language may be changed.

TEMPERATURE SCALE – change the temperature scale from Centigrade to Fahrenheit

CALIBRATION - This setting allows you to add or remove a constant temperature value to the furnace – in case it is observed that the furnace temperature is lower or higher than the requested, this feature is used to adjust and rectify to the correct requested temperature value.

REGULAR COOLING or FAST COOLING– selecting FAST COOLING activates as part of the cycle an internal ventilation to cool faster the furnace.

SHUT-OFF button – It is highly recommended to logoff the furnace at the end of session. Safe shutting down of the furnace electronics.
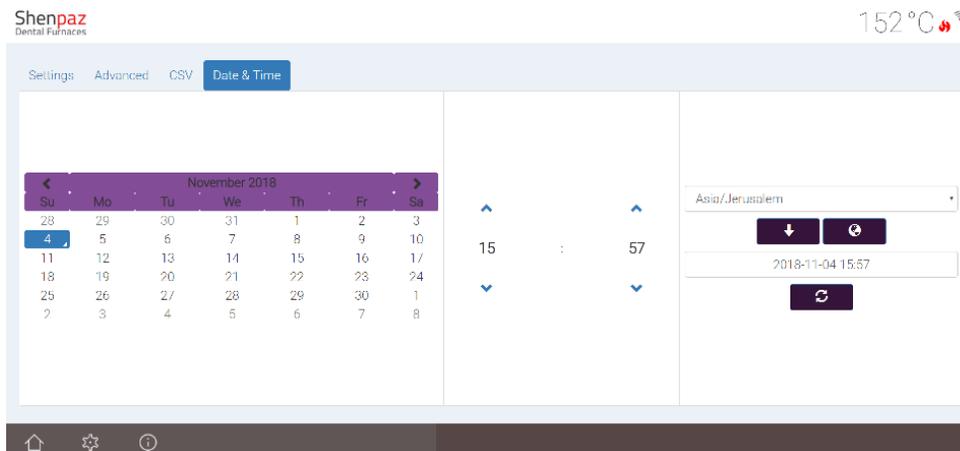
Figure 14- time setting

ADVANCE SETTING SCREEN

To open the Advanced setting - you need to get the password from manufacturer or authorized support technician.

1. In Admin password pop-up screen, place cursor into empty field.
2. Keyboard will appear, type password, press Accept.
3. Admin password screen will appear with hidden password, press OK.
4. Advanced setting is opened for editing.
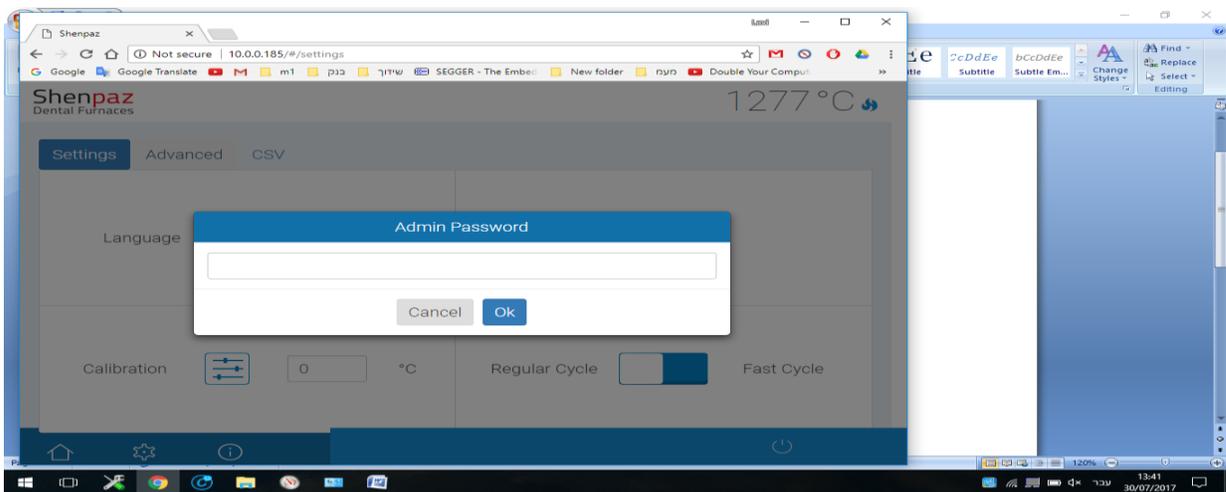
Figure 15 Enter password screen and press OK
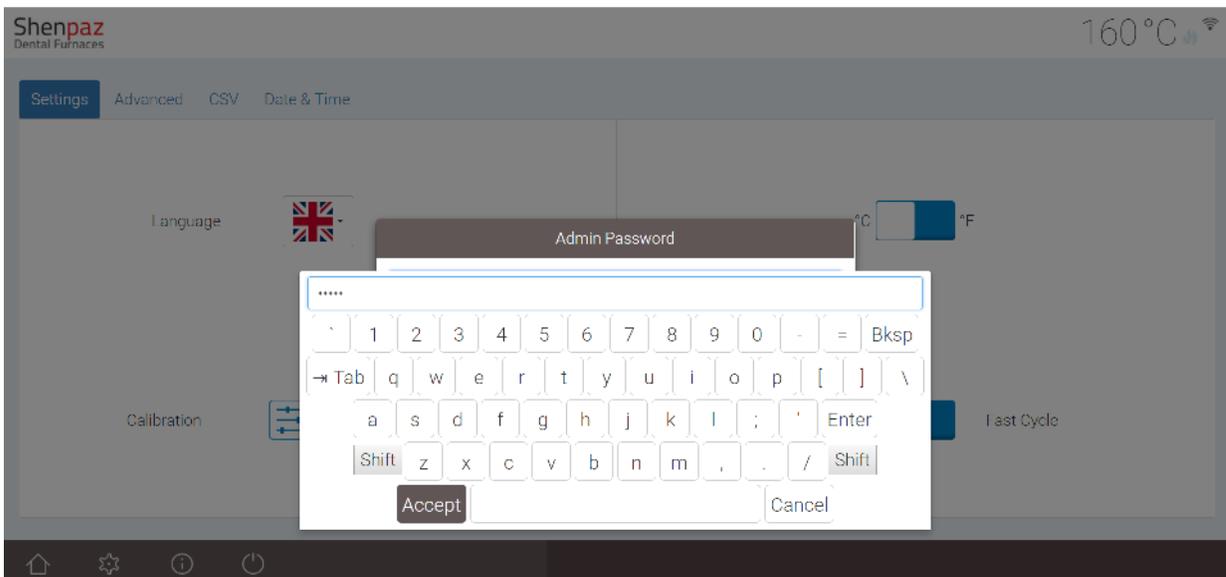
Type the password to enter the advanced setting (authorization required)
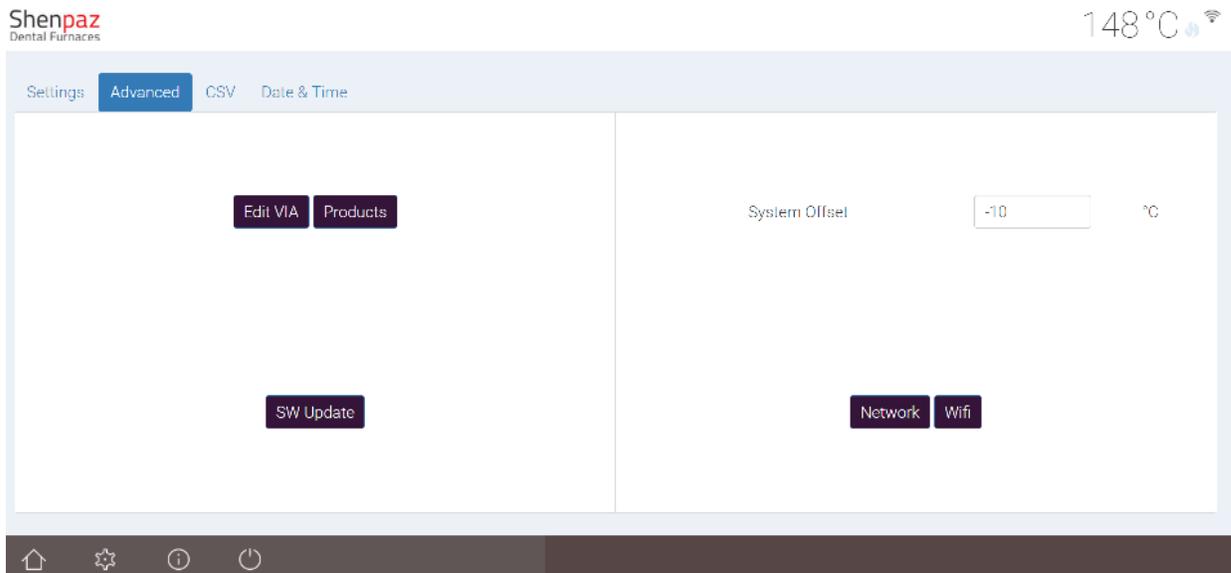
Figure 16 Advanced Screen

Once the password is accepted you will arrive to the "Advanced" screen.

From this screen (on the PC, computer, laptop, and smartphone) you can:

- Edit VIA programs
- Products - Add/Create/Remove products
- Connect to Network or WIFI for pairing with other devices
- CSV - Update Software versions via PC only
- Edit/Set furnace temperature offset. *DO NOT CHANGE THIS VALUE WITHOUT AUTORIZATION FROM MANAUFACTURER OR AUTHORIZED SUPPORT TECHNICIAN.*

All functions performed from this screen is password protected.

EDIT VIA (authorized technical support ONLY)
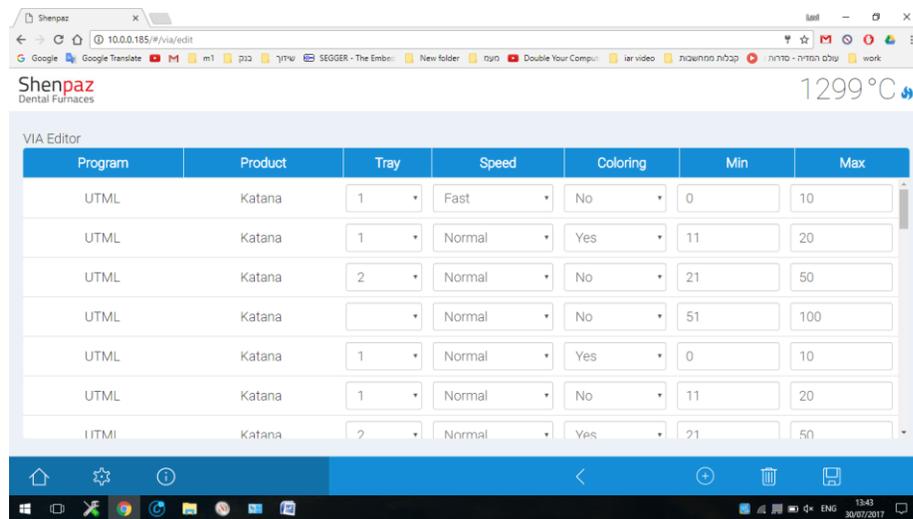
Figure 17 EDIT VIA SCREEN

In this screen Shenpaz personnel modifies and adapts the Via preset to the different Zr product and loading.

PRODUCTS – edit / add/ create program names
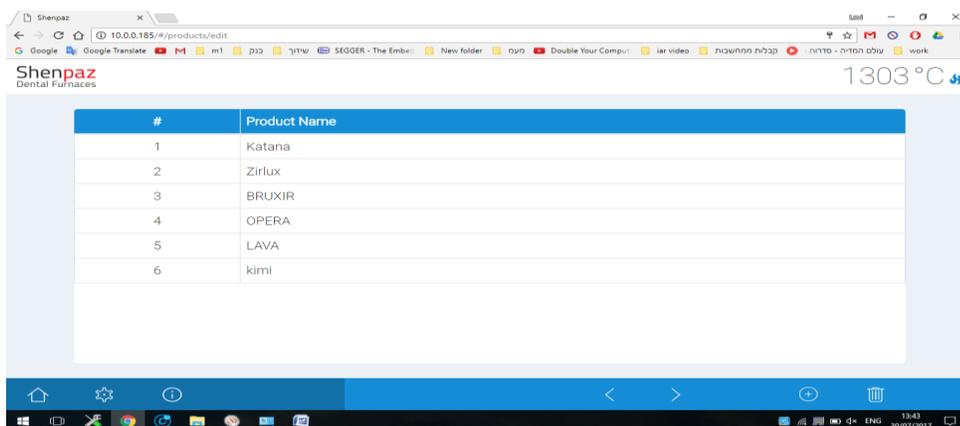
Figure 18 - Advance setting screen

By pressing the + icon add a new brand product to the list.

CONNECTING furnace to a device via Network

Connect your furnace to a PC to upload new software and programs.
Set the adaptor or the computer with the following setting
Open the network connections on the PC:
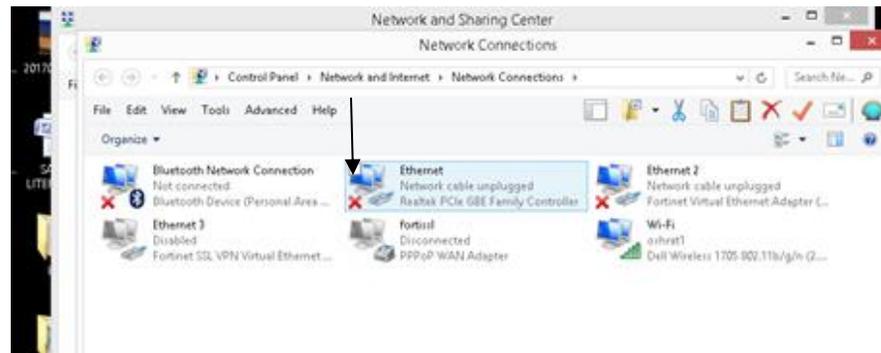
Choice and open Ethernet connection
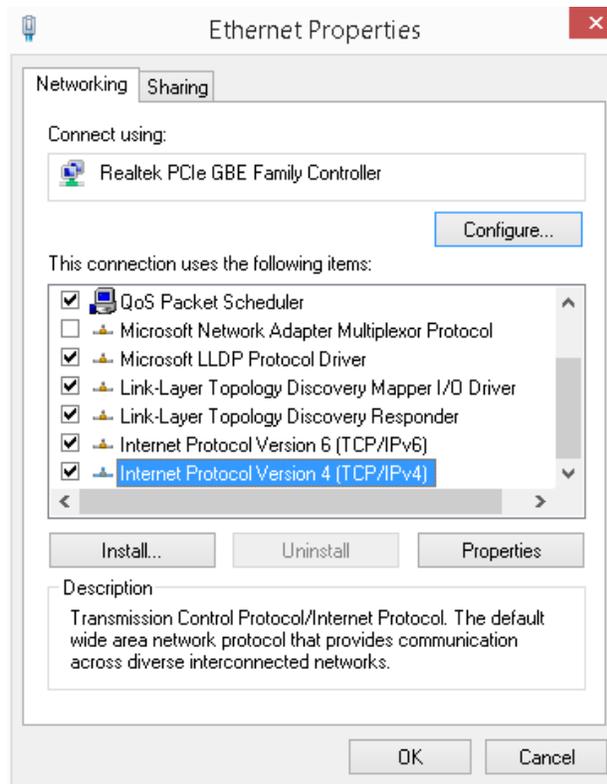
Press internet protocol version 4(TCPIP/ V4) , then press on propriety.

and set detail as follow:
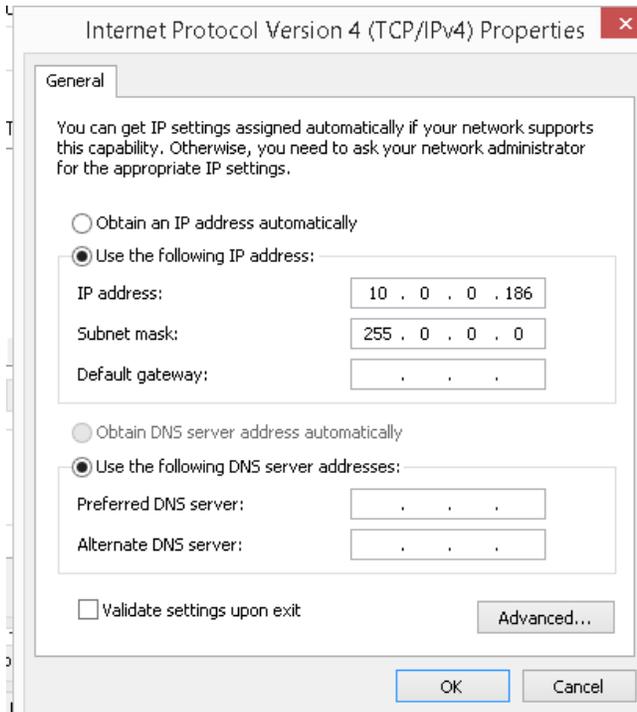
Type in your PC, the set IP address 10.0.0.186.
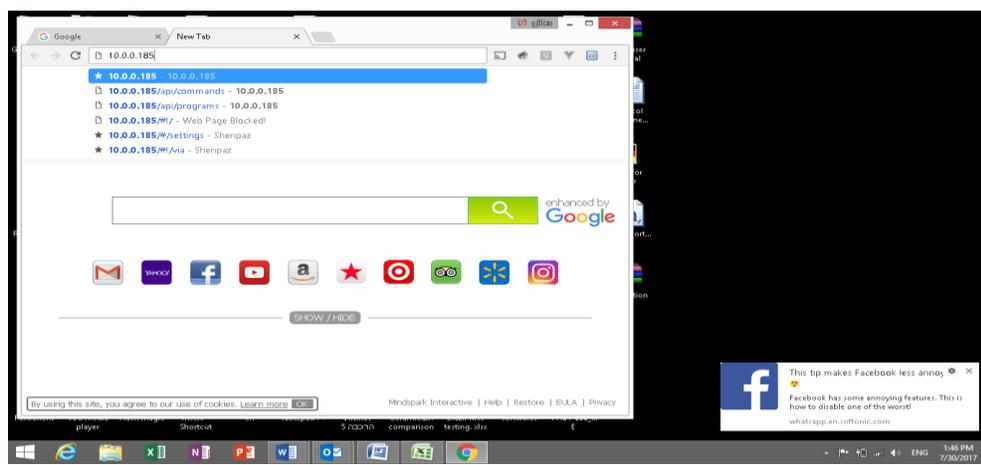
You are now connected to your furnace and you can see and operate your furnace from the PC.

Network Preset (for IT manager use only).

Those are the internal preset the furnace under Network.

HOW TO UPLOAD SINTERING PROGRAM FILES
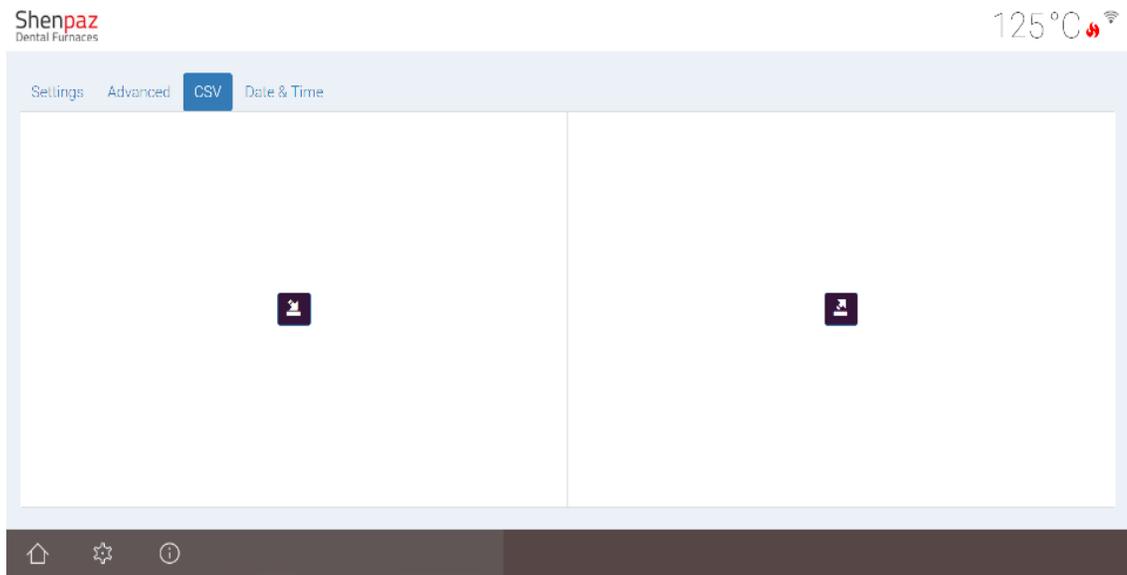
By pressing on your PC on CSV icon ![CSV] you can load or download a CSV file.

The new program will be uploading to the furnace by pressing the icon above.

The PC will confirm that the file was uploaded.

By pressing the second Out Icon you may copy the program from the furnace to the PC.

The file will be stored in the Document \Download \CSV –export.

How to upload Software
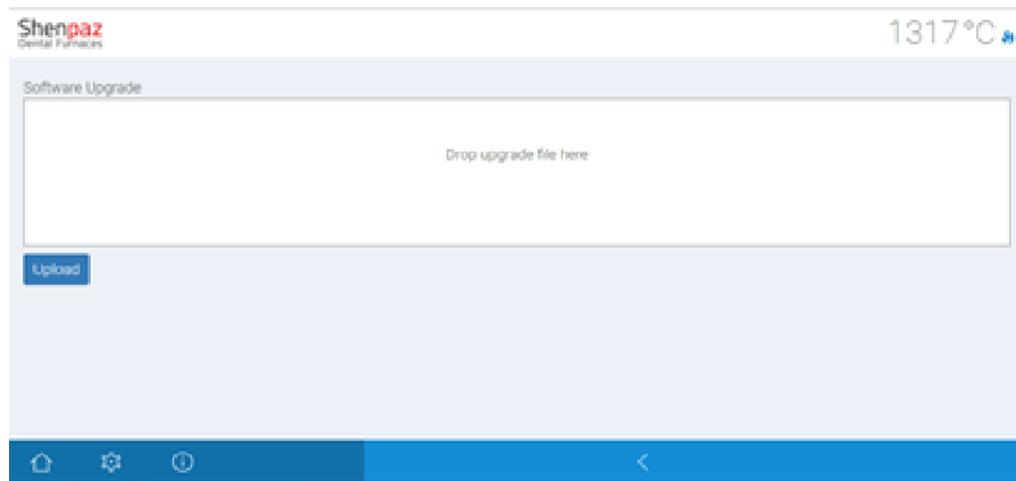
Open a <u>Chrome or Safari</u> browser and write inside the address line 10.0.0.185

Press SW update in your image furnace in a PC- into the advanced setting

Drop the SW send to you into the upload box (you must get the file before from your dealers)

Press the upload button under the upload SW button upload the furnace will reboot automatically with the new software.

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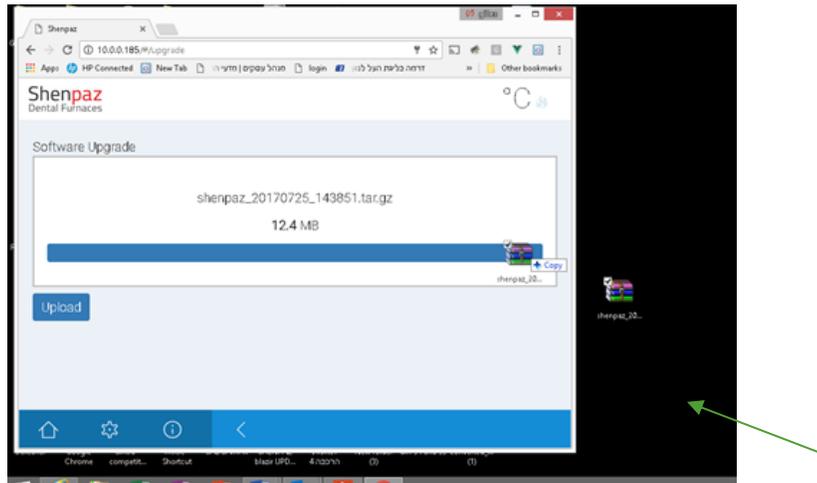
In any case of error the following screen will appear and a sound will be audible.
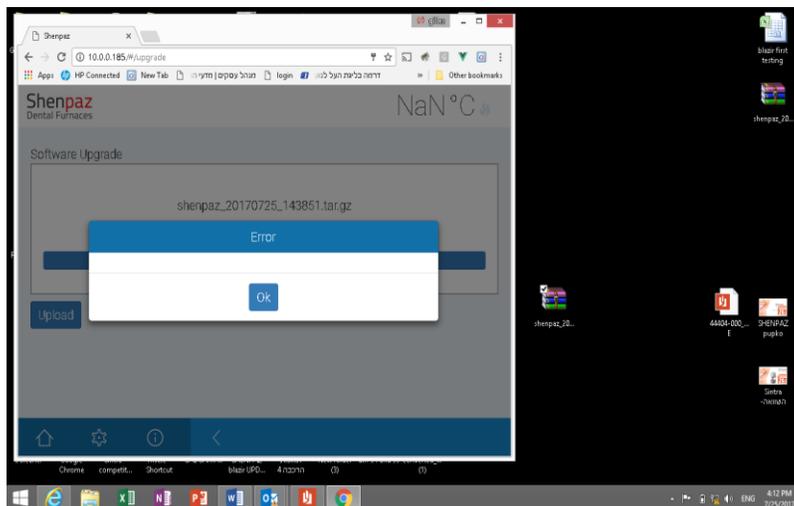
5. Installation

4.1 Setting Up

The furnace is intended exclusively for use within dry, closed space.
The furnace must be positioned below an exhaust pipe or an exhaust hood.
Sufficient ventilation must be ensured at the set-up location, in order to draw off the heat and possibly developing exhaust gas.
 A clearance of at least 50 mm is to be observed sideward, to the rear and upwards of the furnace. The lateral clearance to non-flammable materials can be reduced to 20 cm.

Minimum space requirements for the Blazir (incl. connections):
▪ Width: 1.4 m (0.8 m for non-flammable materials)
▪ Depth: 0.9 m
▪ Height: 1.0 m

The set-up surface must be level.

 The net weight of the machine is 25 kg. The set-up surface must withstand an appropriate load.

During operation, the room temperature must be between 5 °C and 40 °C; avoid large variations in temperature.

The floor covering must be made of non-flammable material, so that hot material falling out of the furnace cannot inflame the covering.

Set up the machine on a sturdy work table or work bench (on a non-flammable surface).

Remove all packaging material.

4.2 Installation of the heating rod elements

Dismantle the furnace cover with a screwdriver.
Open the 4 screws and remove the top cover.

Insert the 4 SIC heating element rods according to the drawing. Connect the
heating elements one to the other in row.
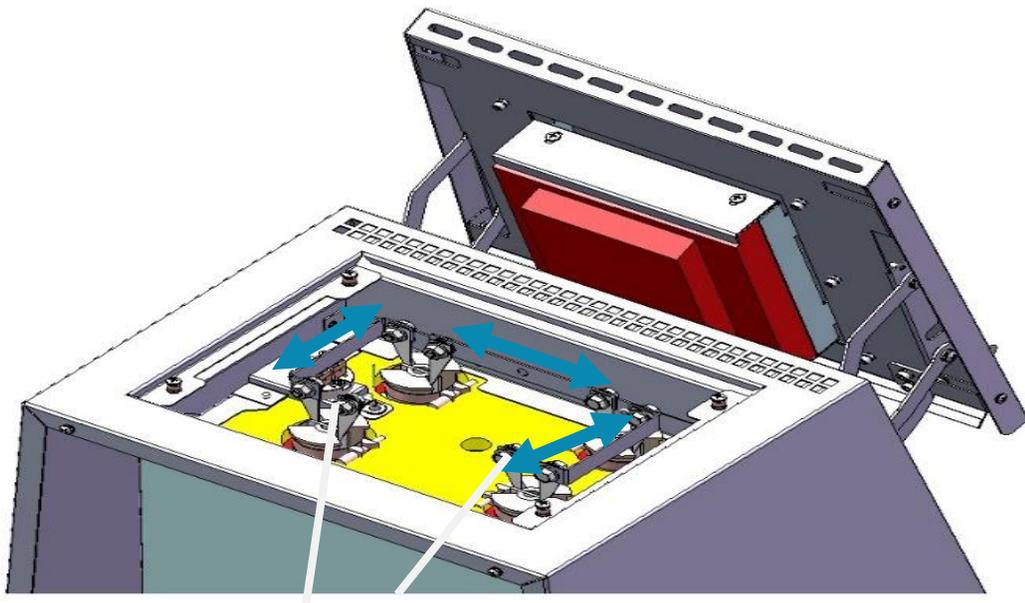
Figure 17- Dismantling the furnace cover

Earthing cable
▷Unscrew four screws 2 using the Allen key 1.
▷Remove the cover 3.
▷Remove the earthing cable from the top cover.

Mounting the Heating Rods
▷One after the other, remove one heating rod from its packaging and insert it
from above into one of the openings in the corners of the furnace
ceiling.

The connection terminals must run parallel to the front of the furnace and the heating rods body must face against the furnace ceiling, as shown above.
Fig. 18 Mounting a heating rod
Screw the connection terminals of the heating rods to the metal connection strips (tightening torque approx. 4 Nm).
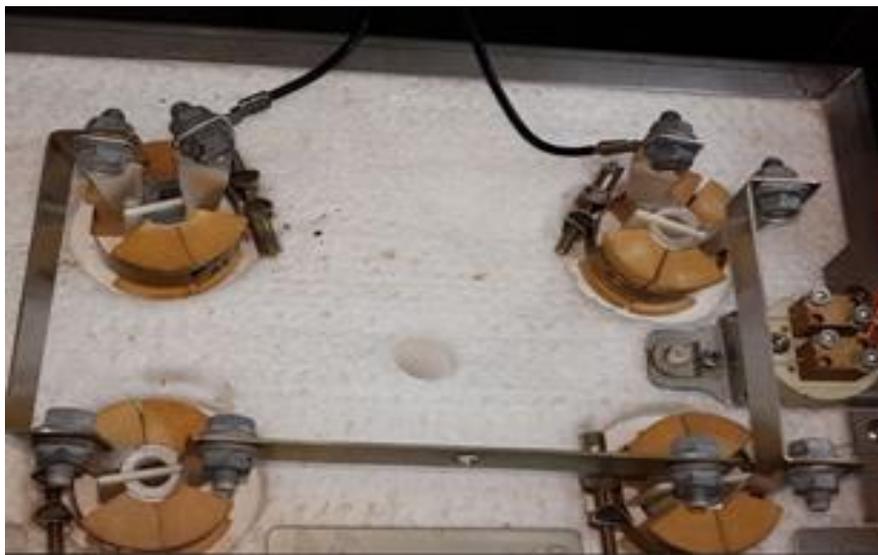
Figure18 - Screwing the metal connection strips on

Screw the connection cables to the free contacts of the heating rods (tightening torque approx. 4 Nm).

Don't damage to the heating rods!

The heating rods are extremely fragile.
        ▷Handle the heating rods with extreme caution!
        ▷It is essential to avoid jolting, bending or turning of the heating rods!

Closing back the Furnace Cover

Position the cover on top of the furnace in such a manner that the holes for the screw connection are flush to each other.
Fasten the cover by screwing in the four screws 2.
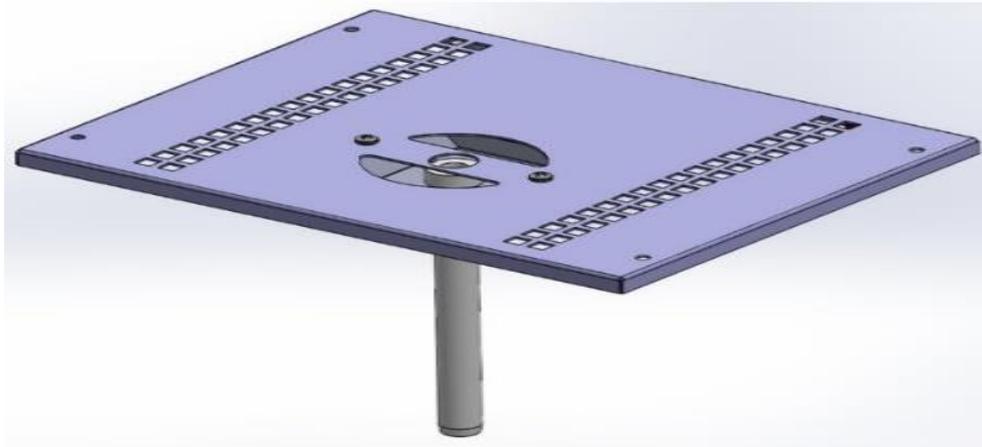
6. Electrical Connection

The electrical connection is to be made via a socket outlet with grounding contact providing 220-240 V and 50-60 Hz.

The electrical socket outlet must be located close to the furnace and be easily accessible.

NOTE: When using an extension cord or a multiple socket outlet, do not exceed the respective max. electrical load rating.

▷Connect the supplied mains cable to the socket intended for this purpose at the rear of the furnace . Use the original Cable supply by Shenpaz , Max length 1.5 M

WARNING:

The mains cable may not be damaged!

▷Do not place objects on the mains cable.

▷Lay the mains cable in such a manner that nobody can step on or trip over it.

7. Start a Sintering program

Place your restoration into the tray and into the furnace.

Manually close the furnace door.

Action one of the 3 options of programming, edit the program or checks the program.

On the Graph screen press ▷ to start the program

From this point, you will be able to follow the cycle on the graph screen and see the remaining time of the cycle.

NOTE:

Insufficient sintering results due to faulty temperature control!

▷ Check the thermocouple for damage.

8. Recovery function

In Shenpaz furnace the recovery function is always an advantage. In any case of electrical failure, your furnace remembers the status and position within the cycle and will recovered to complete the full cycle. without delay limitation in time.

If the furnace recovered and you wish to stop it, please press on the stop button on the bottom of the graph screen.

9. Maintenance and cleaning

- Before carrying out furnace maintenance, or in the event of a mechanical failure, switch off the electrical supply by the POWER switch located at the back of the furnace, and disconnect the power supply cord.
- Opening of the furnace may only be carried out by a technician recommended by your furnace supplier.
- Check the air flow only when the furnace is cold.

    Unauthorized opening of the furnace will invalidate the guarantee. The manufacturer empowers your supplier to carry out certain repairs and maintenance.

Cleaning:

   a) Turn off the furnace from the main switch (located on the rear panel.

b) Disconnect the furnace from the electricity. In case the furnace's surface is hot – leave it unplugged until the furnace cools down completely.

c) Clean the furnace using dry cloth only.

d) DO NOT clean the furnace using any cleaning agents, but dry cloth only.

9. Warranty and service

ShenPaz Dental Ltd. warrants that the non-consumable parts of this product including, but not limited to, the muffle are not defective for a period of one (1) year.

In the event that this product proves defective within a period of the one (1) year of work from the date of shipment to Buyer, Buyers' exclusive remedy shall be at ShenPaz Dental Ltd. option; either replacement of the product or defective part or component, free of charge.

10. Disclaimer

DISCLAIMER of Consequential Damages: ShenPaz Dental Ltd. hereby disclaims any liability for loss or damage, direct or consequential that results from the use of this product.

Disclaimer of ALL other Warranties:

THERE ARE NO OTHER WARRANTIES OR ANY KIND, EXPRESSED OR IMPLIED, CONNECTED WITH THE SALE OF THIS PRODUCT. SHENPAZ DENTAL LTD. SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY.

We thank you for choosing the Blazir, Zirconia sintering furnace for your laboratory needs.

For any questions or additional support, please contact us and we will look forward to assisting you.

Shenpaz
Dental Furnaces

11.Appendices

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4440-010	CENTER EXTERNAL COVER - INSERT	1
2	4440-020	DOOR ASSY	1
3	4440-030	MAIN BODY - RIVETING	1
4	4440-060	DOOR ARMS LINKING - WELDING	1
5	4440-164	DOOR STOPER	2
6	4440-080	TOP COVER ASSY	1
7	4440-140	CIRCUIT BREAKER - RIVETING	1
8	4440-130	ELECTRICAL BASE - RIVETING	1
9	4440-160	ELECT. CARD - SOLDERING	1
10	4440-180	DOOR LOCKING ASSY	1
11	4440-190	DOOR SENSOR ASSY	1
12	4440-200	ELECTRICAL BOX - RIVETING	1
13	4440-210	BOTTOM COVER - INSERT	1
14	4440-230	REAR COVER - INSERT	1
15	4440-024	DOOR ARM 2	2
16	4440-025	HEATING CLAMP 1	2
17	4440-042	AXIS SLEEVE	8
18	4440-043	VENT WASHER	1
19	4440-045	HEATING CLAMP 2	1
20	4440-046	THERMOCOUPLE CLAMP	1
21	4440-053	VENT UNIT BRACKET	1
22	4440-066	SWITCH LABEL	1
23	4440-340	DISPAY ASSEM	1
24	4440-014	Heat sink	1
25	ECFS04-SC30E	Cryoton HS251	1
26	CINPOW_LA51-ACQ		1
27	TCH-506-87A0800		1
28	4710 RL-QSW-B10		8
29	TF257DT12-24	Finger Guard	2
30	INTD1L-TRLS		1
31	Terminal block WK4_U		10
32	Circuit breaker FAZ-C1_1		1
33	Circuit breaker FAZ-C32_1		1
34	LBS-35-24		1
35	Speeder		1
36	Cryton 2440	CLS028 IMAE-L152	1
37	Solenoid Addsfruit 412		1
38	Stereo Ampilfer Card		1
39	4440-030	Heating element Assem	4
40	Thermocouple		4
41	Shenpaz MCO304A		2
42	Shenpaz MCO300A		2
43	Shenpaz CH-49		1
44	Cable Channel		1
45	FASTON Tab TE 41484		1
46	Inlet Filter PN 97225RF-15_06		6
47	SWITCH ROCKER 264 ILH_2A3320 210		1
48	Hex Nut M3 st.st	McMaster No. 91828A211	9
49	Round Bumper	GL-11H	4
50	Pan Head Phillips Screw M4x35	McMaster No. 92005A254	4
51	Hex Nut M4	McMaster No. 92497A250	6
52	Pan Head Phillips screw M3x3	McMaster No. 92005A111	4
53	Flat Washer M3 st.st	McMaster No. 93475A240	12
54	Hex Nylon Insert Locknut M5	McMaster No. 94645A102	4
55	Pan Head Phillips Screw M3x8	McMaster No. 92000A118	2
56	Pan Head Phillips Screw M4x5 st.st	McMaster No. 92000A015	17
57	Pan Head Phillips screw M3x6	McMaster No. 92005A114	17
58	Socket Head Cap Screw M3x10 st.st	McMaster No. 91292A113	8
59	Pan Head Phillips Screw M4x10 st.st	McMaster No. 92000A322	4
60	Pan Head Phillips screw M3x12	McMaster No. 92005A318	5
61	Flat Washer M3 st.st	McMaster No. 93475A210	4
62	Pan Head Phillips screw M3x8	McMaster No. 92005A115	4
63	STANDOFF M4x6	93453A444	4
64	PanduiT Grommet Edging	PN. GEE3AF-C	1
65	Socket Head Cap Screw M2.5x4 st.st	McMaster No. 91292A015	4
66	LeeSpring-LE092SE12S		2
67	92095A210	McMaster No. 92095A210	8

REV.	DESCRIPTION	DATE	APPROVED
A	REF.P ARAN	2016.11.01	DANY Z.
B	CHANGE PARTS	2017.05.23	DANY Z.
C	ADD AND CHANGE PARTS	2017.06.28	DANY Z.
D	CHANGE SPRING AND ADD PART 4440-165	2017.07.12	DANY Z.
E	CHANGE SPRING AND SCREWS	2017.07.18	DANY Z.

(514)
(402)
(402)

SECTION A-A

SECTION D-D

SECTION B-B
SCALE 1 : 2

CA.NO:

	NAME	DATE
DRAWN BY	LARISA R.	2016.09.15
DESIGN BY	DANY Z.	2016.09.15
CHECKED BY	MOSHE G.	2016.09.15
ENG.APPR		

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shenpaz electro-therm group

TITLE: Sintering Oven - Assem

SIZE: A2 SCALE: 1:5 SHEET 1 OF 2

TEL. +972-(0)1-4466906
FAX. +972-(0)1-4450540

DWG NO: 4440-000 REV: E

Quantity:

ON THIS VIEW WITHOUT
P/N 44404-220 & 44404-200

DETAIL C
SCALE 1 : 2

ON THIS VIEW WITHOUT
P/N 44404-010, 44404-020,
44404-080 and Touchscreen Display

ON THIS VIEW WITHOUT
P/N 44404-010, 44404-080

ON THIS VIEW WITHOUT
P/N 44404-220

CAT.NO:			Quantity :
	NAME	DATE	
DRAWN BY	LARISA R.	2016.09.15	
DESIGN BY	DAN T Z.	2016.09.15	
CHECKED BY	MOSHE G.	2016.09.15	
ENG APPR			

title: Sintering Oven - Assem

MATERIAL:

CUSTOMER:

SIZE: A2   SCALE: 1:5   SHEET 2 OF 2

DWG NO 44404-000   REV E

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