

Viale G.di Vittorio, 30 20090 Pantigliate (MI) Tel. 02.55230061

http://www.histoline.com

email: histoline@histoline.com

2017

TEC2900-3 Thermal Console User Manual



(€

Revision date: 16/03/2017



http://www.histoline.com email: histoline@histoline.com

CONTENTS

1.Important Notes	3
1.1 Symbols used in the text and their meanings	3
1.2 Information and specified use	4
1.3 User group	4
1.4 Instrument type	4
2.Safety	5
2.1 Notes	5
2.2 Regulations on the instrument itself	6
2.3 Precautions for use and installation	6
2.4 Transport, installation and site requirements	7
3.Warnings and hazards	8
3.1 Servicing and cleaning	8
4.Technical parameters	9
4.1 Regulation and directives	Errore. Il segnalibro non è definito.
4.2 Electrical data	Errore. Il segnalibro non è definito.
4.3 Dimensions and working data	Errore. Il segnalibro non è definito.
4.4 Capacity	Errore. Il segnalibro non è definito.
5. Product description	10
5.1 Control panel	
5.2 Keys Functions	11
5.3 Setting temperatures	12
6.Cleaning	13
7 Troublochooting	1.4



email: histoline@histoline.com

1.Important Notes

1.1 Symbols used in the text and their meanings



Warning and cautions appear in a gray box and are marked by a warning triangle ...



Notes,

i.e. important information for the user, appear in a gray box and are marked with the symbol $\hat{\mathbf{1}}$.



Solvents and reagents that are inflammable are marked with this symbol.



This warning symbol indicates the surface on the instrument that are hot during operation.

Avoid direct contact to prevent risk of burning.

(5)

Figures in brackets refer to item numbers in figures.

ENTER

Figures in brackets refer to item numbers in figures.



Viale G.Di Vittorio, 30 20090 Pantigliate (MI) Tel. 02.55230061

http://www.histoline.com email: histoline@histoline.com

1.2 Information and specified use

TEC 2900-3 Thermal Console is designed to allow the maintaining of samples in liquid paraffin. The Teflon coating allows easy removal of the compartment and easy cleaning.

Any other use will be considered improper..

1.3 User group

- The Histo-Line Laboratories may only be operated by qualified personnel;
- The user must read the operating instructions supplied and be familiar with all the instrument's technical details before any work on the instrument can be carried out;

1.4 Instrument type

All information in this instruction manual applies only to the instrument type indicated on the title page.

A name plate with the serial number is attached to the back of the instrument.



email: histoline@histoline.com

2.Safety



Be sure to comply with the safety instructions provided in this chapter.

Be sure to read these instructions, even if you are already familiar with the operation and use of other Histo-Line Laboratories products.

2.1 Notes

This instrument has been built and tested in accordance with the safety regulations for electrical measuring, control, regulating and laboratory devices. To maintain this condition and ensure safe operation, the user must observe all notes, warnings and hazards contained in this Operating Manual.



If additional requirements on accident prevention and environmental protection exist in the country of operation, this instruction manual must be supplemented by appropriate instructions to ensure compliance with such requirements.



The protective devices on both instrument and accessories may neither be removed nor modified. Only service personnel qualified by Histo-Line Laboratories may repair the instrument and access the instrument's internal components.



email: histoline@histoline.com

2.2 Regulations on the instrument itself



Safety regulations marked with a warning triangle on the instrument itself mean that when operating or exchanging respective parts of the instrument, the correct operating steps as described in the instruction manual supplied, must be adhered to.

Non-observance can cause accidents, injuries and/or damage to the instrument/accessories

2.3 Precautions for use and installation



After unpacking the instrument, place it appropriately in a correct position.

Prior to his work read carefully the instructions given in this manual and look at the cables, network connectors, the accessories used to working procedures and the operating systems of control



email: histoline@histoline.com

2.4 Transport, installation and site requirements



- Once removed from the box, the instrument may only be transported in an upright position;
- CAUTION! The voltage selector has been preset at the factory, please check that this setting complies with the local power requirements of your laboratory;
- Connect the instrument to a grounded power socket only using one of the power cables provided;
- Do not operate in rooms with explosion hazard;
- Exposure to extreme temperature changes between storage and installation locations and high air humidity may cause condensation inside the instrument. If this is the case, wait at least two hours before switching on the instrument;
- The protective devices on both instrument and accessories must neither be removed or modified;



email: histoline@histoline.com

3. Warnings and hazards



Be sure to comply with the warnings and hazards instructions provided in this chapter.

Be sure to read these instructions, even if you are already familiar with the operation and use of other Histo-Line Laboratories products.

The safety devices installed in this instrument by the manufacturer only constitute the basis for accident prevention. Primarily responsible for accident-free operation is above all the owner of the instrument and, in addition, the designated personnel who operates, services or cleans the instrument. To ensure trouble-free operation of the instrument, make sure to comply with the following instructions and warnings and hazards.



UNPLUG THE CRYO CONSOLE WHEN NOT IN USE

The switch down key on the Main Control Panel, turns off the instrument but not the Power.

Remove the Power Cable from it's wall socket when CRYO CONSOLE is not in regular use..

3.1 Servicing and cleaning



Switch off the instrument each time before servicing and disconnect the main plug.

When using cleaners, please comply with the safety instructions of the manufacturer and the laboratory safety regulations and follow a specific chapter if any in this manual for the cleaning methods.

Before changing defective fuses, the instrument has to be disconnected from the mains.

Only fuses that are easily accessible may be replaced by the user.

During operation and cleaning, do not allow any liquid to penetrate inside the instrument and the transporting arm.

Service should be done by authorized personnel only.



Viale G.Di Vittorio, 30 20090 Pantigliate (MI) Tel. 02.55230061

http://www.histoline.com email: histoline@histoline.com

4. Technical parameters

Refer to attached pages, download the electronic version of data sheet from www.histoline.com web site, or request to customercare@histoline.com for detailed information about technical data.

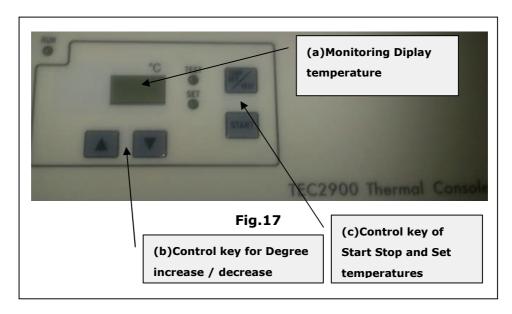


email: histoline@histoline.com

5. Product description

TC 2900 Thermal Console is provided with a control panel to set and monitor the desired temperature and a cooling surface settable.

5.1 Control panel



With the keys it's possible manage the heating plate by setting temperatures, start and stop the mode. (Fig.17)



email: histoline@histoline.com

5.2 Keys Functions

Key for temperature setting/checking



To be used for setting and checking the temperature to maintain on the heating plate.

Keys to increase temperature



To use for the temperature rise of heating to maintain on the heating plate.

Keys to decrease temperature



Use to decrease the temperature of cooling to maintain on the heating plate.

Start /Stop heating key



To use for the start and stop the heating system on the plate.



email: histoline@histoline.com

5.3 Setting temperatures



The heating mode must be set to OFF, the temperature can not be set if the plate is heating, make sure that the RUN LED is off.

Key for setting setting/checking

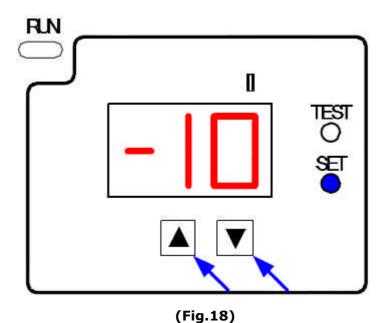


Press this button to enter setting mode temperatures. The ${\bf SET}$ LED on the control panel will go to ${\bf ON}$ and turn green.

Press this button a second time to exit the mode setting temperature. The TEST LED on the control panel will go to ON and turn green.



Using the buttons to increase or decrease the temperature on the display will show the temperature value chosen (see **Fig.18**).



12



email: histoline@histoline.com

6.Cleaning

Always switch off and unplug the Power Cable from the wall socket. Each part of the equipment may be wiped using a tissue or soft cloth moistened with a little water to which a small quantity of mild detergent may be added. Take care to avoid water entering the equipment. Ensure that any traces of wax are removed from the contacts of the connector plugs and from the switch rocker.



NEVER CLEAN THERMAL CONSOLE WITH ABRASIVE OR CHEMICAL SOLVENTS.

The plastic parts will be damaged by abrasive cleaning agents and by solvents including alcohol, ether, xylene, toluene and chloroform. Such damage is not covered by the Product Warranty.



Viale G.Di Vittorio, 30 20090 Pantigliate (MI) Tel. 02.55230061

http://www.histoline.com email: histoline@histoline.com

7. Troubleshooting

PROBLEMS	CAUSE	REMEDIES
Display panel shows nothing	Poor connection of power	Correct it;
	supply	
	Fuse blow	Change it
No heating	Wrong temperature setting	Set the temperature again;
	Fuse blow	Change it
Bugger sounds single tone for	Sensor damaged	Change it;
long at start		