Product Tutorial Ver. 1.0

An ISO 9001: 2008 company

Designed & Manufactured in India by :

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${\bf Soldering\ and\ De\text{-}soldering\ Station}$

Table of Contents

1.	Safety Instructions	3
2.	Technical Specifications	4
3.	Electrical Specifications	4
4.	Installation Procedure	5
5.	Trouble Shooting	6
7.	Warranty	8
8.	List of Accessories	8



Safety Instructions

Read the following safety instructions carefully before operating the instrument. To avoid any personal injury or damage to the instrument or any product connected to it.

Do not operate the instrument if you suspect any damage within.

The instrument should be serviced by qualified personnel only.

For your safety:

Use proper Mains cord: Use only the mains cord designed for this instrument.

Ensure that the mains cord is suitable for your

country.

Ground the Instrument: This instrument is grounded through the protective

earth conductor of the mains cord. To avoid electric shock the grounding conductor must be connected to the earth ground. Before making connections to the input terminals, ensure that the instrument is properly

grounded.

Observe Terminal Ratings: To avoid fire or shock hazards, observe all ratings and

marks on the instrument.

Use only the proper Fuse: Use the fuse type and rating specified for this

instrument.

Use in proper Atmosphere: Please refer to operating conditions given in the

manual.

1. Do not operate in wet / damp conditions.

2. Do not operate in an explosive atmosphere.

3. Keep the product dust free, clean and dry.

Technical specifications

Auto tune PID control circuit

Ease of operation

Set / Read of Operation

Separate of increase & decrease of temperature, after two seconds the actual read of temp will display

Intelligent Power Management auto stand by on mains interruption to save power

Temperature control accuracy +/- 1 Deg. C

If sensor fails power to the element is shut off

The unit is digitally calibrated thru advanced software.

Burn Proof silicon cable thermal resistance up to 600 Deg. C

Electrical specifications

Soldering & de soldering : Sold 60 watts

De sold 70 watts

In put voltage : 190 v to 270v

Out put voltage : 24v AC

Temp range : 180-480 Deg.c

Temp accuracy : +/- 1deg.c

Tip to ground potential : Under 2 M.V

Vacuum : 600 mm/Hg

Pump type : Diaphragm

Tip to ground resistance : Under 2 ohms.

Note: imported power 4000 RPM powerful vacuum pump.

Installation Procedure

*Step no 1 connect 03	pin 1	plug to	power supply
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*Step no 2 connect 05 pin silicon cable/ soldering handle

*Step no 3 connect 06 pin silicon cable/ de soldering handle

Provided on the panel connect the silicon sleeve to the vacuum out let

Provided on the front panel

*Setting of the temperature

Hold the on / off button for two seconds you will observe factory set point 300 Deg.c.

* To Set the Temperature

Hold the increase / up /decrease / down switch to the required say till display reaches your required temperature and then press on /off switch gently once to record the temperature similarly if you want to decrease follow the same procedure.

Temperature for soldering single side / plated thru hole

Soldering iron

	Single side	Plated thru hole
Resistors	280-300	300-320deg.c
IC 's	260-280	320-340 deg.c
Capacitors	320-360	320-350 deg.c
Mosfets	330-360	340-380 deg.c
De Soldering iron		
	Single side	Plated thru hole
	Single side	Plated thru hole
Resistors	Single side 300-330	Plated thru hole 330-350deg.c
Resistors I C 's	C	
	300-330	330-350deg.c

^{*}To the five pin connector provided on the control unit

Function

For Soldering and De-soldering Thru Hole Components

Caution

- Do not give sharp jerks to handle to clean the tip instead use the wet sponge
- Do not heat the element with out tip in its place
- Use always wet sponge to clean the tip
- Use right size / shape of the tip for your application.
- Do not file the tips / nozzles

Trouble shooting

Normally when you plug in you will observe S-E when you switch on the unit indicating handle not connected to the unit

If there is any sensor failure, when you connect the soldering handle / de soldering handle to the unit will indicate S-E on the display

If the sensor is short display shows "000"

If heating element fails display shows "025-035 deg.c" i.e. ambient temperature will be displayed.

When there is no suction available on the de-soldering handle please follow steps

- * Check the path from nozzle tip to glass tube is clear or not by using nozzle cleaning spring in the tool box
- * Next check the glass tube if the solder is full in the glass tube clean the tube by using petrol / Ipa in the glass tube so that lead or solder melts little by using little pressure using blunt screw driver put the pressure on the solder not on the glass tube as it will break.
- * If still the problem persists change the filters on the handle
- * Change the filters on the front panel by unscrewing the vacuum outlet plastic knob.

Calibration Procedure

Please set the temperature 350 deg.c and observe the tip

Temperature say you have observed a difference of + 30 deg.c that is 380 deg.c

Then follow the procedure

press a time you will observe "pas" on the led display

by using ____ you enter default password of digit "4" and gently press on/ off switch to record the password and then enter observed read value of the tip temperature by using

 \blacktriangle / \blacktriangledown switches read value at the tip i.e 380 deg.c and press on /off switch to record the change of the temperature you have entered slowly the system will automatically gets calibrated

After couple of minutes observe the tip temperature if you still observe more than 5 deg. difference in temperature between set point and read point then repeat the above procedure

Temperature lock option / password option

press at a time you will observe "pas" on the led display

by using switch enter default password digit '8' by using press on /off switch to record higher set point to set the which ever from 350 deg. to 480 deg. any where you can set high set point so that once you do the above change set point will not reach more than the (hsp)

This is to protect the operator does not change the temperature with out the supervisor notice.

List of Accessories

	Soldering Gunn	1 No
>	De-soldering Gunn	1 No
>	Soldering Stand	1No
>	De-soldering Stand	1 No
>	Glass Tube	1 No
	Cleaning Spring	1 No
>	Silicon Washer	1 No
>	Mains Cord	1 No
>	Filter Small	10 Nos
>	Filter Big	5 Nos
>	Learning Material CD	1 No.