VECTECH 972

Preheater

Instruction Manual

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Thank you for purchasing the preheater.
This unit preheats electronic printed wiring boards.
Please read this manual before operating the preheater.
Keep this manual readily accessible for reference.

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SPECIFICATIONS

Name	853 preheater
Power consumption	100V-350W 110V-400W 120V-500W 220V-460W 230V-500W 240V-540W
Hot air temperature	120～250℃ (248～482℉)
Air flow	0.18m^3/min (6.35ft^3/min)
Outer dimension	170(1)×140(w)×60(h),mm. (6.7(1)×5.5(w)×2.4(h), in.)
Weight (w/ cord)	About 1kg.

* This product is protected against electrostatic discharge.

WARNINGS, CAUTIONS

Warnings and cautions are placed at critical points in this manual to direct the operator's attention to significant items. They are defined as follows:

⚠ WARNING: Failure to comply with a WARNING may result in serious injury or death.

⚠ CAUTION: Failure to comply with a CAUTION may result in injury to the operator, or damage to the items involved. Two examples are given below.

⚠ CAUTION

When power is ON, air outlet temperatures will be between 120℃ and 250℃. (248℉ and 482℉). To avoid injury or damage to personnel and items in the work area., observe the following:

- Do not touch the hot air outlet with your bare hands.
- Do not use ignitable gases, ignitable materials, or flammable objects close to the unit.
- Do not blow ignitable substances, ignitable objects, or flux onto the outlet.
- Do not insert anything into the outlet.
- Do not use with the outlet obstructed or with the unit surrounded by other objects.
- Inform other people in the area that the unit is hot and dangerous.
- Turn off the power when no longer using or when leaving the unit unattended.

●Before replacing parts or storing, cool the unit and then turn off the power.

⚠ CAUTION

To prevent accidents or damage to the preheater, be sure to observe the following:

●Do not use for any purpose other than preheating.

●Limit continuous use to approximately one hour.

●Be sure to ground the unit.

●Do not modify this unit.

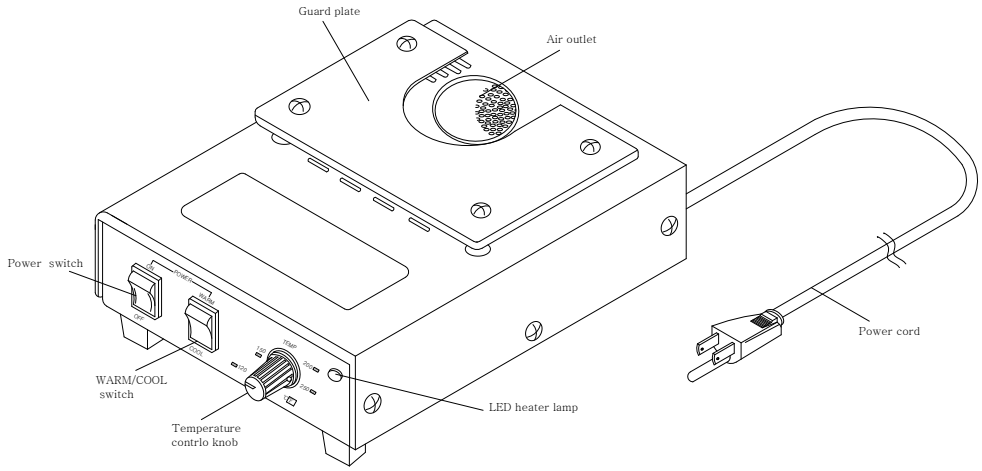
●Use only genuine replacement parts.

●Do not place in water or use with wet hands.

●Hold the plug when connecting and disconnecting the cord.

●Avoid any other actions considered to be dangerous.

PART NAMES



PERATING INSTRUCTIONS

PREPARATION

Refer to the figure as shown at the ringt, and position the preheater and printed wiring board.

POWER ON

1. Set the WARM/COOL switch to COOL and turn the power OFF.
2. Plug in the power cord.

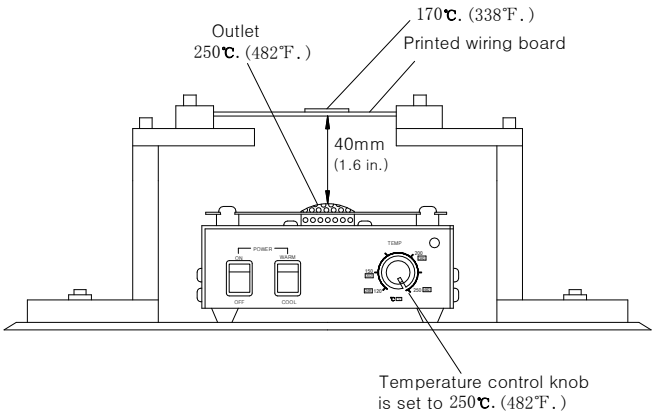
CAUTION:

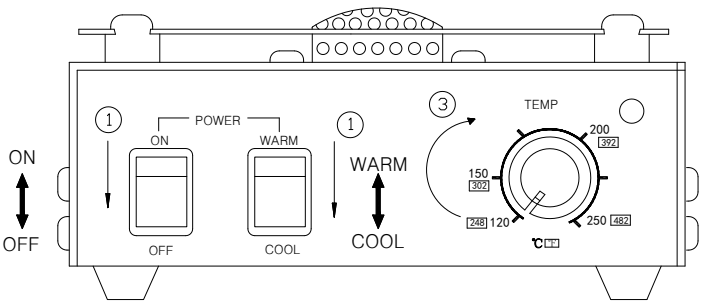
This unit is protected against electrostatic discharge. Be sure to ground the unit.

3. Set the temperature.
4. Turn power ON.

CAUTION:

Make sure the outlet is not obstructed before turning the power ON.





OPERATING INSTRUCTIONS

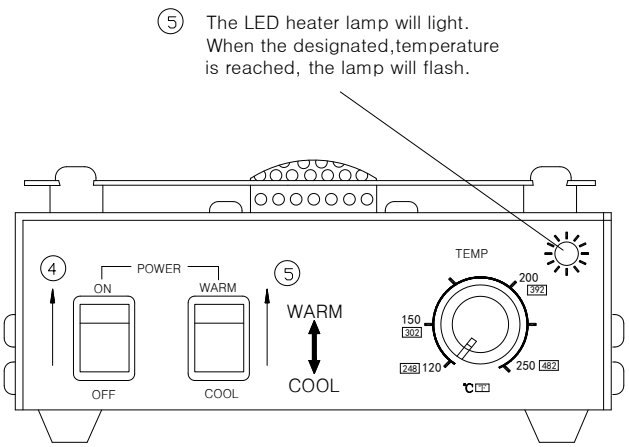
5. Set the WARM/COOL switch to WARM.

CAUTION:

Hot air is discharged. Preheating begins.

AFTER USE

1. Set the WAEM/COOL switch to cool to cool the unit.
2. Make sure the unit is completely cool, then turn the power OFF.



TROUBLE SHOOTING

⚠ WARNING

- ●Unless otherwise directed, carry out these procedures with the power switch OFF and the power cord UNPLUGGED.
- ●If the power cord is damaged, it must be replaced only by the manufacturer or an authorized repair facility to preclude damage to either the unit or injury to personnel.
- ●Be sure the unit has cooled to room temperature before beginning work.

TROUBLE－SHOOTING GUIDE

●Unit does not operate when power t turned ON.	CHECK: Is the fuse blown? **I**nvestigate why the fuse blew and then replace the fuse. If the cause can not be determined, just replace the fuse. If the fuse blows again, send the unit in for repair.
●Air is not discharged.	CHECK: Is the fan motor working? Turn the fan by hand and check if the blades turn smoothly. If there is a problem, replace the fan or send the unit in for repair.
●Air does not become hot when WARM/COOL switch is set to WARM after power ON.	CHECK: Is the heating element broken? Measure the resistance value of the heating

element as described on page 5.

CHECK: Is the sensor broken?

Measure the resistance value of the senor as described on page 5.

CHECK: Is the printed wiring board broken?

Check the printed wiring board visually for burned parts. If there are parts with burn damage, replace the wiring board or send the unit in for repair.

RESISTANCE MEASUREMENT FOR INVESTIGATING BROKEN HEATING ELEMENT AND SENSOR

● **Heating element resistance measurement.**

CAUTION:

Measure the heating element and senor at room temperature.

Remove the heating element connector and measure the resistance.

Heating element resistance value:25～30Ω (100～120V) 100～110Ω (220～240V).

If the resistance value is incorrect, replace the heating element. (See the instructions included with the replacement heating element regarding how to replace the heating element.)

● **Sensor resistance measurement**

Remove the sensor connector and measure the resistance.

Sensor K type thermocouple.

If the resistance value is incorrect, replace the senor. (See the instructions included with the replacement sensor regarding how to replace the senor.)

MAINTENANCE

Wipe any flux deposits from the outlet and guard plate.