



VP 741D & S Series Heating Blocks



VP 741D



VP 741R-10



VP 741S



VP 741SASCE



VP 742D



VP 741Z-TC

Applicable Models

Model No.	Description
VP 741D/CE	Deep Chamber for Microplates or Racks of Tubes/Vials, Designed to Heat & Stir, Anodized Aluminum, PID Controller, Temp 25 to 200 C, 12.5mm Mica SLAS Adaptor on Bottom, 120/220 Volts
VP 741S/CE	Shallow Chamber, for Standard Microplates and Access by Robotic Gripper, PID Controller, Temp 25 to 200 C, 12.5mm Mica SLAS Adaptor on Bottom, 120/220 Volts
VP 741SASCE	Chamber to fit Analytical Sales Nano Nest, Manual Controller, Temp 25 to 200 C, Mica Bottom, 220 Volts
VP 742D	2 Deep Chambers, Microplates or Racks of Tubes/Vials, Eddy Current Design to Heat & Stir, PID Controller, Temp 25 to 200 C, Mica insulation on Bottom to fit VP 710L5-1 Deck, 120 Volts
VP 741Z-TC	Deep Chamber, Designed to Heat with Water in Chamber, Manual Controller, Thermocouple Sensor, Temp 25 to 100 C, 120 Volts, SLAS Footprint
VP 741R-10	HEAT BLOCK, Deep Round Chamber, for 10, 1.6cm Diameter, 15cm Length Tubes

WARNING

InkBird Controllers allow the Heat Block units to exceed 200 degrees Celsius. DO NOT set the heat blocks above this max temperature. Doing so may damage internal components and void the warranty

WARNING

Heating Blocks can be very hot when operating, so exercise caution. Do not handle red aluminum heating portion of the unit while it is **HOT!!**

Components

1. Heat Block



2. InkBird Controller



3. Power Cable



NOTE

PLEASE INSPECT ALL SHIPPING BOXES/ITEMS FOR DAMAGE PRIOR TO SETUP. IF ANY ITEMS APPEAR TO HAVE SUSTAINED DAMAGE DURING SHIPMENT, PLEASE STOP SETUP AND CONTACT US.

Set Up

Prior to setting up the heat block system, ensure that the Heating Block and the PID Controller have matching serial numbers. This is important for maintaining calibration. If the controller and heat block are mismatched, the unit must be recalibrated

The heat block should be placed on a level surface clear of any items that may be sensitive to heat or electricity.

- Control box cables are 6Ft in length to accommodate placing the control box a distance from the heat block if necessary.

- Begin by inserting both the **LOAD** and **SENSOR** cables into their respective ports on the back side of the InkBird Controller.



- Plug the power cable into the back of the InkBird Controller, then connect the unit to an appropriate outlet. The Figure below shows all the correct connection pairs.

NOTE

To disconnect the LOAD cable you must depress the tab labeled "PUSH"

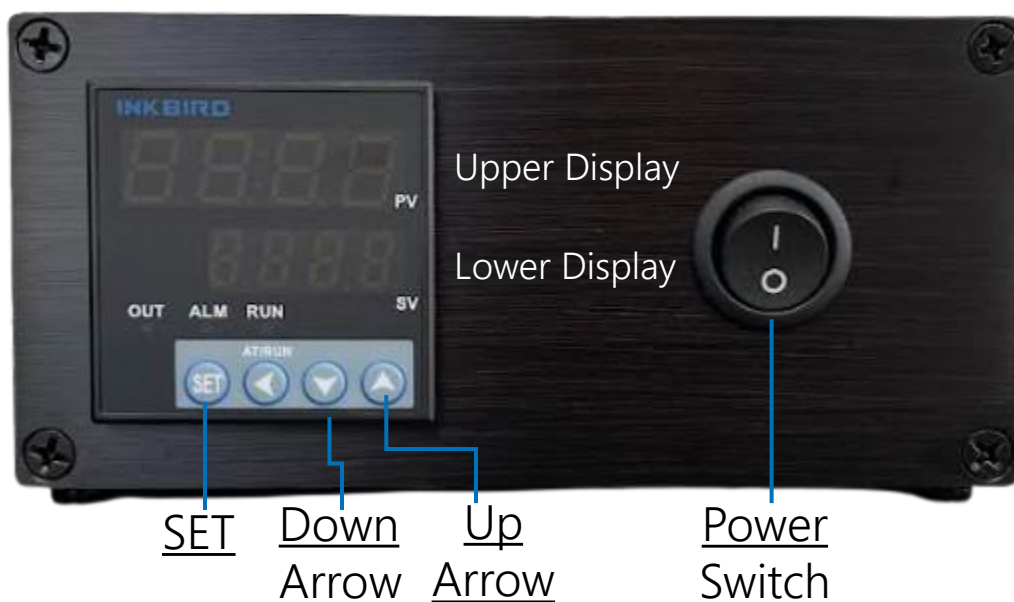


Power Cable

Load

Sensor





1. Power the unit on by flipping the Power Switch to the ON position (I).
 - The Upper Display shows the temperature being read at the center of the heat block
 - The Lower Display is adjustable and will read the last "SET" value.
2. Using the Up & Down arrows, navigate to the desired temperature.
3. Press the SET button. The unit will begin to heat to the set temp.

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*** Actual sample temperatures in wells or tubes will be 3°C to 5°C below this temperature depending upon the efficiency of heat transfer. It is recommended that the temperature in one or more samples be measured directly to determine appropriate setting for a particular application. ***

Maintenance, Precautions & Warranty

- When not in use, turn the power switch off.
- If using with a V&P Scientific Magnetic Tumble Stirrer, please also follow the instructions for the Stirrer. It is recommended that only V&P Heating Block models with the special design to minimize Eddy currents be used for magnetic stirring applications.
- Do not place the Temperature Controller in chambers with temperatures above 40°C.
- The upper limit temperature on the Temperature Controller is set to 120°C at the factory. **Temperatures higher than 120°C should not be used with polypropylene tubes or microwell plates.** To operate at temperatures above 120°C, use of glass or other high temperature-stable containers is recommended.
- Do not submerge Heating Block or Temperature Controller into liquid or allow liquid to contact any openings.
- Do not, for any reason, open the Temperature Controller enclosure or the heating element compartment of the Heating Block. This will void the warranty.
- For any other questions regarding the Controller, please refer to the Temperature Control Instructions (Appendix).
- If technical assistance is required, contact V&P Scientific, Inc. at 858-455-0643 or sales@vp-sci.com

Warranty

V&P Scientific, Inc. warrants this product to be free from defects in material and workmanship when used under normal laboratory conditions for one year. This warranty begins on the date of delivery from V&P Scientific.

In the event this product fails under normal laboratory conditions within the specified period of time because of a defect in material or workmanship, V&P Scientific will, at its option, repair or replace the product. Damage to the product caused by user negligence is not covered.

Please keep the special shipping carton if the unit needs to be returned to V&P Scientific. Please contact V&P Scientific for return authorization and shipping instructions.

This warranty is made in lieu of other warranties expressed or implied, including merchantability and fitness for a particular purpose. V&P Scientific shall not be liable for loss or damages arising from the use of these products nor for consequential damages of any kind.

APPENDIX

Temperature Controller Operating Instructions: Supplied as an attached document.