V&P SCIENTIFIC, INC.
Innovators in Liquid Handling, Arraying and Mixing

TECHNICAL NOTE 57A

TEMPERATURE CONTROL FOR HEATING BLOCK

The VP 741 Heating Block is designed to operate between 25℃ and 100℃.

It has a 150 watt heating element that is controlled by a Series SD, Watlow microprocessor-based temperature controlller. The Series SD Users Manual is in Appendix A and contains detailed instructions for advanced operation. Basic temperature control is set to operate in the range from 25℃ to 100℃. To set the desired temperature, simply press either the up or down arrows on the display to increase or decrease the temperature setting (bottom display). If you require more sophisticated control features such as ramping, please let us know and we can provide with a custom solution.

For faster heat transfer it is possible to use water or oil in the heat block cavity. However, please note that no liquid should be allowed to spill out of the plate pocket. This could cause damage to the heating block.

Although the Heat Block will be ready at the temperature indicated on the display the actual temperature of specimens in the microplate wells will be 3℃ to 5℃ below this temperature. We recommend that you measure the temperature in the wells to determine to appropriate conditions and settings. We also recommend letting the heat block equilibrate for five minutes before heating samples.

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