

Operating instructions for all behrotest® heater blocks

All behrotest® heater blocks are intended for connection to controllers TRS 300, TRS 200, ET 2 and ET 1, and with corresponding adapters also to the old series TRS 100.

Whenever possible, position the heater block in a fume cabinet and the relevant temperature controller **outside** the cabinet. The cable length of 2 m makes this possible. This ensures that no harmful vapours which could damage the sensitive electronics penetrate into the controller. Extension cables are also available if required.

Then plug the two connecting cables for the block into the corresponding sockets on the controller, and tighten the cap nuts on the plug connectors. The plug connectors are designed in such a way that they only fit the correct sockets and the polarity cannot be reversed. The heater block is then ready for operation.

Special features:

This heater block is fitted with a new temperature limiter. When the set limit is exceeded, the circuit is opened and the snap action contact of the temperature limiter remains mechanically blocked.

Only when the temperature falls approx. 10 % below the limit can the snap action switch be manually deblocked again.

This ensures that the heater block cannot heat up to any excessive temperatures when the temperature limiter is correctly set.

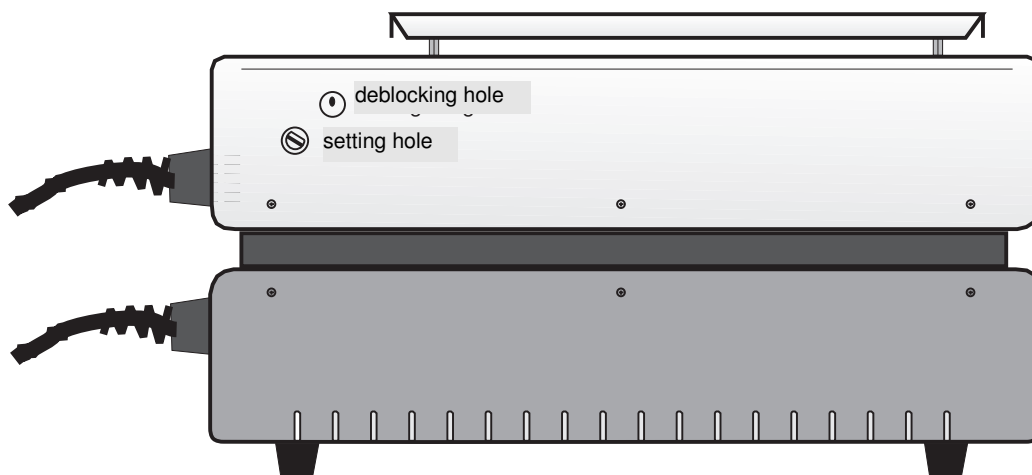
You can set the temperature limiters to the following temperatures:

CSB, DET and SMA blocks	80 °C ... 300 °C
"HT"-type heater blocks	80 °C ... 400 °C

The temperature limiters are set to the relevant maximum temperature level on delivery.

Position of the temperature limiter:

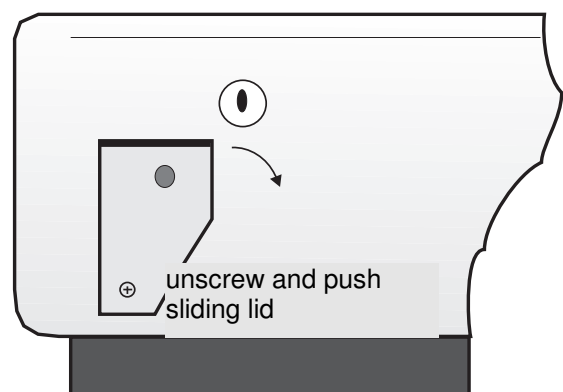
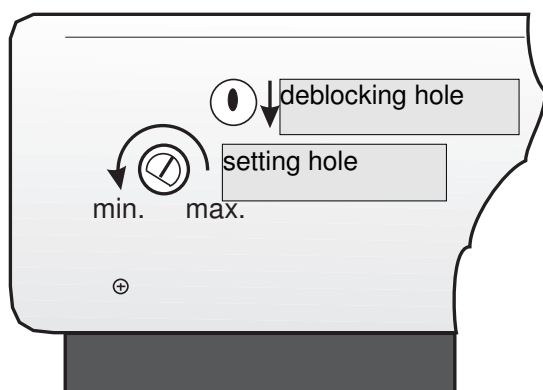
The temperature limiter is located at the top left hand side in the leather grained upper shell on all heater block types.



Setting the temperature limiter

Example: Working temperature 150 °C
Cut-out temperature 170 °C

1. Set a temperature of 170 °C on the temperature controller and allow the heater block to heat up to that temperature without vessels. Allow the block to heat for a further approx. 10 minutes to stabilise the temperature.
2. Then slowly turn the slotted shaft in the setting hole anti-clockwise with a screwdriver until the temperature limiter trips with an audible click. Then switch the controller off and close the hole with the steel plate.
3. When the heater block has cooled down, deblock the temperature limiter with the plastic pin. This is done by inserting the slanted end of the pin into the deblocking hole. Pressing lightly downwards on the button inside resets the reclosing block. When this occurs, you will clearly hear a click.
4. Switch the controller on and set the desired working temperature of 150 °C. The system is then ready for operation.



Should the temperature limiter trip in spite of being set correctly, check the function of the temperature controller immediately!

Check the function of this protective system at least once each year!

This can be done simply by setting the controller to a higher temperature than that of the temperature limiter, and waiting for the latter to switch off.

The TRS 200 controller also displays the error message "Error 010".

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