

IKA®

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Heating block_032015

IKA® Heating Block



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Operating instructions

Safety instructions



- **Read the operating instructions in full before starting up and follow the safety instructions.**
- Keep the operating instructions in a place where it can be accessed by everyone.
- Ensure that only trained staff work with the equipment.
- Follow the safety instructions, guidelines, occupational health and safety and accident prevention regulations.
- Maximum admissible temperature must not exceed 300 °C.
- Exercise caution when handling the heating block. There is a risk of burning because the aluminum block temperature could reach 300 °C.
- Temperature over 180 °C can change the surface color permanently, but has not affect to the functionality of the heating block.
- Pay attention to the residual heat after processing.
- Wear gloves when handling the heating blocks!
- Never carry the heating block around as long as they are hot.

Proper use

The **IKA® Heating Block** has been designed for **IKA®** magnetic stirrers with heating/heating plate with a maximum working plate diameter 135 mm. The **Heating Block** allows syntheses to be carried out in small reaction vessels or round flasks at temperatures of up to 300 °C. This system ensures optimal heat transfer from the heating plate into the medium.

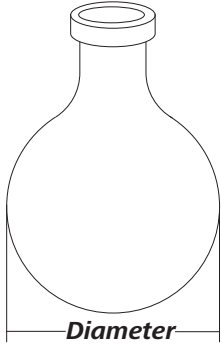
Note: Please do not use silicone oil as heat transfer medium since the inlay or the vessel might start to rotate inside the carrier block.

The anodizing color of the block could change with aging, it does not affect the heating function of the block.

Glassware checklist

- Round bottom flasks or small reaction vessels used with heating blocks/inserts must be free of cracks. Etched or severely scratched glassware should not be used for heating with blocks or inlays.
- Recommend use round bottom flask that comply with DIN ISO 1773:1999-05 dimension specification, flask diameter which do not comply ISO 1773:1999-05 should not exceed maximum diameter as following chart.

Flask capacity	Max. diameter
10 ml	33.5 mm
25 ml	43.5 mm
50 ml	52.5 mm
100 ml	66 mm
250 ml	87.5 mm
500 ml	107.5 mm
1000 ml	134.5 mm
2000 ml	169.5 mm
3000 ml	198.5 mm
5000 ml	230.5 mm



Attention: Use of glassware which exceed the maximum allowed diameter can cause breakage of the glassware!