

**IKA**®

## Dry Block Heaters



**designed**  
to work perfectly

## Dry Block Heaters | Quick, Safe and Efficient!

100+ offers an exemplary and diverse range of dry block heaters designed to accommodate various critical reagent heating blocks. They provide precise temperature control for repetitive results. These digital block heaters are ideal for melting and holding point temperatures, enzyme reactions, incubation and activation of cultures, microarrays, DNA denaturation, culture media tests, coagulation tests, blood urea nitrogen determination and inulin hydrolysis. They are designed for precise heating of PCR tubes, PCR strips, microcentrifuge tubes, microplate and canisters.

**3** Year warranty\*

\*Full parts and labor warranty  
on the entire piece, pressure and  
temperature dependent

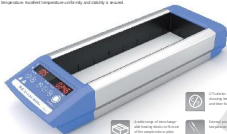
Protection class according to DIN EN 60529: IP 21

CE



## Dry Block Heaters | Accurate and Precise!

The digital dry block heaters with precisely designed blocks ensure highly accurate and reproducible results, guaranteeing short heating times. The bright, easy to read LED display facilitates easy setting of the required temperature and accurate monitoring of the actual temperature. Excellent temperature uniformity and stability is ensured.



A wide range of interchangeable heating blocks to fit most of the sample tubes used.

Temperature display, heater and actual probe temperature, option screen for set point control.

Temperature display for accurate and reproducible results, option screen for set point control.

Check for better fit, allowing between the heater and the heater function.

Heating plate for accurate temperature control.

Preventive filter heater panel.



## Dry Block Heaters | Modular Heating Blocks



100% accuracy guarantee  
- Heating set, to 120 °C  
- Digital read-up value  
- 0.1 degree temperature resolution  
- PT 1000 temperature sensor related to the delivery



100° dry block heaters are highly versatile and each model can accept various interchangeable modular heating blocks. They can carry various sample vials, the centrifuge tubes, test tubes, vials, reaction plates and PCR tubes or chips. Each block has a thermometer well for monitoring the block temperature. In addition, stainless steel provide superior temperature stability and heat transfer.

## Dry Block Heaters | Technical data



Dry Block Heater 1



Dry Block Heater 2

Technical data	1	2
Power elements	1	2
Net weight	100 g	100 g
Weight (operation stage)	400 g (incl. 100 g)	400 g (incl. 100 g)
Depth	100 mm	100 mm
Net internal width	47.5 mm	47.5 mm
Capacity (block temperature)	100 (100)	100 (100)
Control accuracy with sensor	±1.5 °C	±1.5 °C
Temperature stability with feedback (1%)	±0.5 °C	±0.5 °C
Temperature stability with feedback (0.5%)	±0.3 °C	±0.3 °C
Internal of the block	Aluminum alloy	Aluminum alloy
Material of the chamber	Al <sub>2</sub> O <sub>3</sub> ceramic	Al <sub>2</sub> O <sub>3</sub> ceramic
Max. block temperature	100 °C	100 °C
Temp. range	1.00 - 100.00 °C	1.00 - 100.00 °C
Temperature resolution	0.01 °C	0.01 °C
Temperature stability (without sensor)	±1.00 °C	±1.00 °C
Resolution (without sensor)	0.01 °C	0.01 °C
Resolution (with an external 200 Ω RTD)	0.01 °C	0.01 °C
Control	100 - 100	100 - 100
Dimensions	100 x 50	100 x 50
Power supply	100 V	100 V

LINK TO SPECIFICATIONS

LINK TO SPECIFICATIONS



Dry Block Heater 3

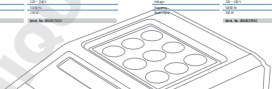


Dry Block Heater 4

Technical data	3	4
Power elements	1	2
Net weight	100 g	100 g
Weight (operation stage)	400 g (incl. 100 g)	400 g (incl. 100 g)
Depth	100 mm	100 mm
Net internal width	47.5 mm	47.5 mm
Capacity (block temperature)	100 (100)	100 (100)
Control accuracy with sensor	±1.5 °C	±1.5 °C
Temperature stability with feedback (1%)	±0.5 °C	±0.5 °C
Temperature stability with feedback (0.5%)	±0.3 °C	±0.3 °C
Internal of the block	Aluminum alloy	Aluminum alloy
Material of the chamber	Al <sub>2</sub> O <sub>3</sub> ceramic	Al <sub>2</sub> O <sub>3</sub> ceramic
Max. block temperature	100 °C	100 °C
Temp. range	1.00 - 100.00 °C	1.00 - 100.00 °C
Temperature resolution	0.01 °C	0.01 °C
Temperature stability (without sensor)	±1.00 °C	±1.00 °C
Resolution (without sensor)	0.01 °C	0.01 °C
Resolution (with an external 200 Ω RTD)	0.01 °C	0.01 °C
Control	100 - 100	100 - 100
Dimensions	100 x 50	100 x 50
Power supply	100 V	100 V

LINK TO SPECIFICATIONS

LINK TO SPECIFICATIONS



## Dry Block Heaters | Accessories

	Model	Power (kW)	Vol	No. of Units	Min-Depth (mm)	W x D x H (mm)	Code No.
<b>Mini cartridge heaters</b>	SB 1.1 Ingotman	0.15	120 Volt-1/200V	20	22.5	50 x 50 x 35	00047000
	SB 1.2 Ingotman	0.15	Standard Ingotman 11.5mm	20	22.5	50 x 50 x 35	00047010
	SB 1.3 Ingotman	0.15	Microtype 11.5mm	20	22.5	50 x 50 x 35	00047020
	SB 1.4 Ingotman	0.15	Standard Ingotman 10.5mm	20	22.5	50 x 50 x 35	00047030
	SB 1.5 Ingotman	0.15	Energy Ingotman 10.5mm	20	22.5	50 x 50 x 35	00047040
<b>Low voltage cartridge heaters</b>	SB 2.1 Ingotman	0.15	Low volt 110V	10	22.5	50 x 50 x 35	00047050
	SB 2.2 Ingotman	0.30	Low volt 220V	5	22.5	50 x 50 x 35	00047060
<b>Cartridge heaters</b>	SB 3.1 Ingotman	0.60-0.67-0.80-0.90	Standard Ingotman 11.5mm 20 mm	4-10	20-22.5-25-28	50 x 50 x 35	00047070
	SB 3.2 Ingotman	0.15-0.20-0.25-0.30	Cartridge side inductor 11.5mm 15mm 20mm	4-10	20-22.5-25-28	50 x 50 x 35	00047080
	SB 3.3 Ingotman	0.15-0.20-0.25-0.30	Standard inductor 11.5mm 15mm 20mm	4-10	20-22.5-25-28	50 x 50 x 35	00047090
<b>Lead acid unit heaters</b>	SB 4.1 Ingotman	0.15	Standard Ingotman 11.5mm	20	22.5	50 x 50 x 35	00047100
	SB 4.2 Ingotman	0.30	Standard Ingotman 11.5mm	10	22.5	50 x 50 x 35	00047110
	SB 4.3 Ingotman	0.15	Energy Ingotman 11.5mm	16	22.5	50 x 50 x 35	00047120
	SB 4.4 Ingotman	0.15	Energy Ingotman 11.5mm	20	22.5	50 x 50 x 35	00047130
	SB 4.5 Ingotman	0.15	Standard Ingotman 11.5mm	12	22.5	50 x 50 x 35	00047140
	SB 4.6 Ingotman	0.15	Standard Ingotman 11.5mm	8	22.5	50 x 50 x 35	00047150
	SB 4.7 Ingotman	0.30	Standard Ingotman 11.5mm	6	22.5	50 x 50 x 35	00047160
	SB 4.8 Ingotman	0.30	Standard Ingotman 11.5mm	8	22.5	50 x 50 x 35	00047170
	SB 4.9 Ingotman	0.30	Standard Ingotman 11.5mm	12	22.5	50 x 50 x 35	00047180
<b>Gas</b>	SB 5.1 Ingotman	0.15	12 watts	20	22.5	50 x 50 x 35	00047190
	SB 5.2 Ingotman	0.15	15 watts	20	22.5	50 x 50 x 35	00047200
	SB 5.3 Ingotman	0.15	18 watts	12	22.5	50 x 50 x 35	00047210
	SB 5.4 Ingotman	0.15	18 watts	12	22.5	50 x 50 x 35	00047220
	SB 5.5 Ingotman	0.15	21 watts	8	22.5	50 x 50 x 35	00047230
	SB 5.6 Ingotman	0.15	21 watts	8	22.5	50 x 50 x 35	00047240
	SB 5.7 Ingotman	0.15	21 watts	8	22.5	50 x 50 x 35	00047250
	SB 5.8 Ingotman	0.30	24 watts	6	22.5	50 x 50 x 35	00047260
	SB 5.9 Ingotman	0.30	24 watts	8	22.5	50 x 50 x 35	00047270
<b>2.5" x 0.50" x 0.50"</b>	SB 6.1 Ingotman	0.60	10.0 x 0.50 x 0.50 mm 20 mm 20 mm	40	15.0	50 x 50 x 35	00047280
	SB 6.2 Ingotman	0.60	10.0 x 0.50 x 0.50 mm 20 mm 20 mm	40	15.0	50 x 50 x 35	00047290
	SB 6.3 Ingotman	0.60	10.0 x 0.50 x 0.50 mm 20 mm 20 mm	40	15.0	50 x 50 x 35	00047300
<b>Control</b>	SB 7.1 Ingotman		200 watts (1.0 amp)	20.0	40.0	50 x 50 x 35	00047310
<b>Resistor plates</b>	SB 7.2 Ingotman		60 - 80 watt plate	10.0	40 x 12 x 17	50 x 50 x 35	00047320

## IKA® offers more

### Comprehensive Worldwide Service

Our dedicated team of engineers provides comprehensive worldwide technical service. Please feel free to contact your nearest IKA® factory or one of our service centers. Nothing is too hard for us if you have any equipment malfunctions or technical questions regarding IKA® and spare parts. Call us: 800-825-8275 / 313 82001800



### IKA® Application Support

Our Application Center offers an ISO 9001 and cGMP compliant facility for processing and testing lab design and processes. This brings us even closer to our customers and improves our service menu. Together with our scientists we can best assist you with mixer design, mixing, dispersing, grinding, heating, cooling and drying. In addition, it also further expands the opportunity to test your own devices and to develop new models.



### IKA® Online

Get up-to-date information about products, new innovations, videos, photos, price sheets and much more.

Visit Now!  
[www.ika.com](http://www.ika.com)



## Applications

IKA® dry block heaters are highly versatile suitable for broad range of applications.

- DNA incubation
- DNA amplification
- Heating process of microtubes
- Heating point determination
- Incubation
- Sample incubation
- Sample processing
- Sample activity studies
- The cell cycle studies
- Micro- and enzyme determinations
- Nucleic acid hybridization
- Sample studies
- Chemical processes
- Oxidation and activation of surfaces
- Microorganisms
- Testing speed processing
- Reaction digest
- Detection limit



### Application Support

For specific inquiries regarding applications and products, you can utilize our hotline number: 800 825 8275 (313 8200 1800) or email: [application@ika.com](mailto:application@ika.com)

\* Monday – Thursday 9:00 – 18:00  
Friday 9:00 – 17:00

3 Year warranty\*

For purchase regarding our products, please contact your nearest IKA® distributor.

Prohibition clause according to DIN EN 60529: IP 21



Subject to technical changes  
Indications not binding for delivery

**IKA+**

Ordering made easy!  
For more information about  
our products and to place  
your order, please visit:  
[www.ika.com](http://www.ika.com)

IKA®-Werke GmbH & Co. KG  
Janke & Kunkel-Str. 10  
79219 Staufen  
Germany

Tel. +49 7633 831-0  
Fax +49 7633 831-98

[sales@ika.de](mailto:sales@ika.de)  
[www.ika.com](http://www.ika.com)

**IKA**® German technology



[www.facebook.com/IKAworldwide](https://www.facebook.com/IKAworldwide)

23 337\_006\_0000\_Master\_Brochure\_EN\_v09