



designed for scientists

EN



PRECISE

Passionately enabling chemists to create a better world since 1910.
From A to Z.

DRY BLOCK HEATERS MADE BY IKA.

Dry Block Heaters

/// Quick, safe and efficient

IKA offers an exemplary and diverse range of dry block heaters designed to accommodate various interchangeable heating blocks.

They provide precise temperature control for repeatable results. These digital block heaters are ideal for melting and boiling point determination, enzyme reactions, incubation and activation of cultures, immunoassays, DNA denaturation, culture media tests, coagulation tests, blood-urea-nitrogen determinations and in situ hybridizations.

They are designed for precise heating of PCR tubes, PCR strips, microcentrifuge tubes, microplates and cuvettes.

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/// IKA SERVICE

3-YEAR WARRANTY*

* 2 years + 1 year after registering on www.ika.com/register, excludes wear parts



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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 very easy setting of the required temperature and accurate monitoring of the actual temperature. Excellent temperature uniformity and stability is ensured.



PRECISE TEMPERATURE CONTROL

- › Bushing acc. to DIN 12878
- › Rapid heat up rates
- › Exceptional temperature uniformity
- › PT 1000.60 temperature sensor included in the delivery, coated version PT 1000.90 as option available



A wide range of interchangeable heating blocks to fit varieties of sample tubes and plates.



Temperature display for the actual / set-point temperatures, up / down arrow keys for set-point control.



Timer display for accurate and reproducible conditions, up / down arrow keys for set-point control.



C / T selector button for choosing between the counter and timer function.



External probe for accurate temperature control.



Threaded hole for a stand.

IKA DRY BLOCK HEATERS ARE HIGHLY VERSATILE SUITABLE FOR BROAD RANGE OF APPLICATIONS.

- › DNA extractions
- › DNA analysis
- › Melting point determination
- › Boiling point determination
- › Immunoassays
- › Enzyme reactions
- › Enzymatic processes
- › Enzyme activity studies
- › In situ hybridization
- › Blood-urea-nitrogen determinations
- › Nucleic acid hybridization
- › Coagulation studies
- › Biochemical processes
- › Incubation and activation of cultures
- › Blood examinations
- › Fertile ground processing
- › Restriction digest
- › Denaturation

Dry Block Heaters

/// Modular heating blocks

IKA dry block heaters are highly versatile and each model can accept separate interchangeable modular heating blocks. They can carry various sample inserts like centrifuge tubes, test tubes, vials, microtitre plates and PCR tubes or strips. Each block has a thermometer well for measuring the block temperature. Anodized aluminum blocks provide superior temperature stability and heat transfer.

PROVIDE SUPERIOR
TEMPERATURE STABILITY
AND HEAT TRANSFER



Technical data

/// Dry Block Heaters

	TECHNICAL DATA	
	/// Comparison	
	Dry Block Heater 1 Ident. No. 0004025100	Dry Block Heater 2 Ident. No. 0004025200
Number of blocks	1	2
Heat output	165 W	250 W
Heating temperature range	RT +5 °C to 120 °C	RT +5 °C to 120 °C
Display	LED	LED
Heat control accuracy	± 1 K	± 1 K
Connection for ext. temperature sensor	DIN 12878	DIN 12878
Control accuracy with sensor	± 1 K	± 1 K
Temperature stability within the blocks at 37°C	± 0,5 °C	± 0,5 °C
Temperature stability within the blocks at 60°C	± 1,5 °C	± 1,5 °C
Material of the blocks	Aluminum alloy	Aluminum alloy
Set-up plate dimensions	96 × 75 mm	96 × 152 mm
Fixed safety circuit	150 °C	150 °C
Timer	1 min – 99h 59min	1 min – 99h 59min
Dimensions (W × D × H)	151 × 228 × 73 mm	151 × 304 × 73 mm
Weight (without blocks)	1 kg	1,3 kg
Permissible ambient temperature range	+5 to +40 °C	+5 to +40 °C
Permissible relative moisture	80 %	80 %
Protection class according to DIN EN 60529	IP 21	IP 21
Power input	165 W	250 W
Voltage / Frequency	220 – 240 V / 50/60 Hz	220 – 240 V / 50/60 Hz

	TECHNICAL DATA	
	/// Comparison	
	Dry Block Heater 3 Ident. No. 0004025300	Dry Block Heater 4 Ident. No. 0004025400
Number of blocks	3	4
Heat output	330 W	412 W
Heating temperature range	RT +5 °C to 120 °C	RT +5 °C to 120 °C
Display	LED	LED
Heat control accuracy	± 1 K	± 1 K
Connection for ext. temperature sensor	DIN 12878	DIN 12878
Control accuracy with sensor	± 1 K	± 1 K
Temperature stability within the blocks at 37°C	± 0,5 °C	± 0,5 °C
Temperature stability within the blocks at 60°C	± 1,5 °C	± 1,5 °C
Material of the blocks	Aluminum alloy	Aluminum alloy
Set-up plate dimensions	96 × 227 mm	96 × 304 mm
Fixed safety circuit	150 °C	150 °C
Timer	1 min – 99h 59min	1 min – 99h 59min
Dimensions (W × D × H)	151 × 380 × 73 mm	151 × 456 × 73 mm
Weight (without blocks)	1,6 kg	2 kg
Permissible ambient temperature range	+5 to +40 °C	+5 to +40 °C
Permissible relative moisture	80 %	80 %
Protection class according to DIN EN 60529	IP 21	IP 21
Power input	330 W	412 W
Voltage / Frequency	220 – 240 V / 50/60 Hz	220 – 240 V / 50/60 Hz

Accessories

/// Dry Block Heaters

 MICRO CENTRIFUGE TUBES

/// Comparison

	Pore size [mm]	Use for	No. of hole	Hole depth [mm]	W x D x H [mm]
DB 1.1 Single block Ident. No. 0004467600	Ø 7,9	PCR tubes (0,5 ml)	30	27,6	95 x 76 x 51
DB 1.2 Single block Ident. No. 0004467700	Ø 11,5	Eppendorf microtubes (1,5 ml)	20	36,9	95 x 76 x 51
DB 1.3 Single block Ident. No. 0004467800	Ø 11,1	Microtubes (1,5 ml)	20	39,1	95 x 76 x 51
DB 1.4 Single block Ident. No. 0004467900	Ø 10,9	Eppendorf microtubes (2,0 ml)	20	38,1	95 x 76 x 51
DB 1.5 Single block Ident. No. 0004468000	Ø 10,9	Corning microtubes (2,0 ml)	20	38,1	95 x 76 x 51

 COMBINATION BLOCKS

/// Comparison

	Pore size [mm]	Use for	No. of hole	Hole depth [mm]	W x D x H [mm]
DB 3.1 Single block Ident. No. 0004468300	Ø 8,3 / Ø 13,9 / Ø 26,2	Test tube combination 6 mm, 12/13 mm, 25 mm	6 / 5 / 3	48,4 / 48,4 / 48,4	95 x 76 x 51
DB 3.2 Single block Ident. No. 0004468400	Ø 11,1 / Ø 17,1 / Ø 29,0	Centrifuge tube combination, 1,5 ml, 15 ml, 50 ml	4 / 3 / 2	39,1 / 44,5 / 47,6	95 x 76 x 51
DB 3.3 Single block Ident. No. 0004468500	Ø 7,9 / Ø 11,1 / Ø 11,5	Microtube combination, 0,5 ml, 1,5 ml, 2,0 ml	6 / 10 / 5	27,6 / 39,1 / 38,1	95 x 76 x 51

 CONICAL BOTTOM CENTRIFUGE TUBES

/// Comparison

	Pore size [mm]	Use for	No. of hole	Hole depth [mm]	W x D x H [mm]
DB 2.1 Single block Ident. No. 0004468100	Ø 17,1	Conical tubes (15 ml)	12	44,5	95 x 76 x 51
DB 2.2 Single block Ident. No. 0004468200	Ø 29,0	Conical tubes (50 ml)	5	47,6	95 x 76 x 51

 STANDARD TEST TUBES

/// Comparison

	Pore size [mm]	Use for	No. of hole	Hole depth [mm]	W x D x H [mm]
DB 4.1 Single block Ident. No. 0004468600	Ø 8,3	Round bottom tubes (6 mm)	30	48,4	95 x 76 x 51
DB 4.2 Single block Ident. No. 0004468700	Ø 10,7	Round bottom tubes (10 mm)	24	48,4	95 x 76 x 51
DB 4.3 Single block Ident. No. 0004468800	Ø 13,9	Round bottom tubes (12/13 mm)	16	48,4	95 x 76 x 51
DB 4.4 Single block Ident. No. 0004468900	Ø 13,9	Round bottom tubes (12/13 mm)	20	48,4	95 x 76 x 51
DB 4.5 Single block Ident. No. 0004469000	Ø 17,5	Round bottom tubes (15/16 mm)	12	48,4	95 x 76 x 51
DB 4.6 Single block Ident. No. 0004469100	Ø 21,0	Round bottom tubes (20 mm)	8	48,4	95 x 76 x 51
DB 4.7 Single block Ident. No. 0004469200	Ø 26,2	Round bottom tubes (25 mm)	6	48,4	95 x 76 x 51
DB 4.8 Single block Ident. No. 0004469300	Ø 35,0	Round bottom tubes (35 mm)	4	47,6	95 x 76 x 51
DB 4.9 Single block Ident. No. 0004469400	Ø 19,1	Round bottom tubes (17/18 mm)	12	48,4	95 x 76 x 51



VIALS /// Comparison					
	Pore size [mm]	Use for	No. of hole	Hole depth [mm]	W x D x H [mm]
DB 5.1 Single block Ident. No. 0004469500	Ø 12,7	12 mm vials	20	30	95 x 76 x 51
DB 5.2 Single block Ident. No. 0004469600	Ø 15,8	15 mm vials	20	35	95 x 76 x 51
DB 5.3 Single block Ident. No. 0004469700	Ø 17,8	17 mm vials	12	45	95 x 76 x 51
DB 5.4 Single block Ident. No. 0004469800	Ø 19,7	19 mm vials	12	45	95 x 76 x 51
DB 5.5 Single block Ident. No. 0004469900	Ø 21,7	21 mm vials	9	45	95 x 76 x 51
DB 5.6 Single block Ident. No. 0004470000	Ø 23,8	23 mm vials	8	45	95 x 76 x 51
DB 5.7 Single block Ident. No. 0004470100	Ø 25,8	25 mm vials	8	45	95 x 76 x 51
DB 5.8 Single block Ident. No. 0004470200	Ø 28,8	28 mm vials	6	45	95 x 76 x 51
DB 5.9 Single block Ident. No. 0004470300	Ø 16,4	16 mm vials	15	45	95 x 76 x 51



Vials



PCR – plates, tubes, strips



Cuvettes



Microtitre plates

PCR – PLATES, TUBES, STRIPS /// Comparison					
	Pore size [mm]	Use for	No. of hole	Hole depth [mm]	W x D x H [mm]
DB 6.1 Single block Ident. No. 0004470400	Ø 6,4	10 x 8 individual PCR tube strips (0,2 ml tubes)	80	15,5	95 x 76 x 51
DB 6.2 Single block Ident. No. 0004470500	Ø 6,4	64 x individual PCR tubes (0,2 ml tubes)	64	20,2	95 x 76 x 51
DB 6.3 Double block Ident. No. 0004470600	Ø 19,1	1 x 96 – well PCR plate (0,2 ml tubes)	96	15,5	95 x 152 x 51
DB 7.1 Double block Ident. No. 0004470800	–	96 – or 384 – well plate	–	13,5	95 x 152 x 51
DB 8.1 Single block Ident. No. 0004470700	–	2 x 6 cuvettes (12,5 mm)	–	25,4	95 x 76 x 51

TEMPERATURE SENSOR

/// Comparison

	PT 1000.60 Ident. No. 0003516800	PT 1000.90 Ident. No. 0004480600
Probe type	Immersion probe	Immersion probe
Sensor type	PT 1000 (DIN IEC 751 Class A)	PT 1000 (DIN IEC 751 Class A)
Accuracy of temperature measurement	± (0,15 + 0,2 % o.Mv.) K	± (0,15 + 0,2 % o.Mv.) K
Response time t9/10	10 sec	10 sec
Temperature measuring range min.	-50 °C	-10 °C
Temperature measuring range max.	+400 °C	+260 °C
Material of probe tube	Stainless steel 1.4571	Stainless steel 1.4571
Coating of probe tube	–	SafeCoat
Diameter of probe tube	3 mm	3,2 mm
Length of probe tube	230 mm	230 mm
Immersion depth min.	25 mm	25 mm
Cable length	1.000 mm	1.000 mm
Probe connection	DIN 45322	DIN 45322



Temperature sensor

Worldwide service network

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