

IKA

designed for scientists

KEFÖ

EN



COMPACT YET POWERFUL | CENTRIFUGES

The IKA mini G is a mini centrifuge ideal for applications which do not require ultra high speeds e.g. micro-filtrations and cell separation. The unit features a compact design and a small footprint which requires minimal bench space. A transparent cover allows for constant observation and it can be used for both microcentrifuge and PCR strip tubes.



mini G
Ident. No. 0003958000



2+1 years
warranty*

CE

*2+1 years after registering at
www.ika.com/register,
wearing parts excluded

FEATURES

- › Fixed speed of 6000 rpm
- › Digital timer adjustable from 1 to 99 min
- › Fast startup of speed
- › Compact design and quiet operation
- › Rotor exchangeable without tools
- › Easy operation with touch keypad

SPECIAL SAFETY FEATURES

- › The centrifuge will run only when the lid is closed
- › The lid can be opened easily at the push of a button
- › Integrated quick stop
- › Protection class acc. to DIN EN 60529: IP 30
- › Rotor and adapters can be autoclaved (121 °C, 2 bar)

SCOPE OF DELIVERY

- › IKA mini G centrifuge
- › Rotor for 8 × 1.5/2 ml vessels
- › Rotor for 4 × 8 × 0.2 ml PCR strips
- › Adapters for 0.5 ml vessels (8 pcs.)
- › Adapter set for 0.4 ml vessels (8 pcs.)
- › Adapter set for 0.2 ml vessels (8 pcs.)



FEATURES

- › Fitted with a metal cover
- › Does not start until firmly closed
- › Intuitive navigation through a membrane keypad allows an easy setting of speed, timer or programs
- › Rotational speed of up to 15 700 rpm
- › Intergrated unbalance sensor
- › Display RPM or RCF
- › All rotors, rotor lids and adapters can be autoclaved (121°C, 2 bar)

SCOPE OF DELIVERY

- › IKA G-L centrifuge
- › Metal rotor set 12 × 1.5 / 2 ml
- › Screwdriver for opening the lid in case of emergency
- › USB cable



The clearest display in its class

Separating substances at medium rotational speeds: IKA G-L is the ideal midi centrifuge for all types of separation processes such as those found in molecular biology. It can be used with standard 1.5 / 2 ml vessels, as well as with PCR strips. The cover opens automatically at the press of a button.

IKA G-L

Ident. No. 0030000774





TECHNICAL DATA

Capacity	8 × 1.5/2.0 ml	12 × 1.5/2.0 ml
Speed	6000 rpm	800 – 15 700 rpm
Speed deviation	5 %	2.5 %
Centrifugal acceleration	2000 G	16 500 G
Timer	Yes	Yes
Timer display	7 Segment LED	7 Segment LED
Unbalance sensor	No	Yes
Quick stop	Yes	Yes
Cover opening	Automatic	Automatic
Rotor exchange	Without tool	Without tool
Protective cover	Yes	Yes
Interface	–	USB

GENERAL DATA

Weight	1.4 kg	3.9 kg
Dimensions (W × H × D)	155 × 105 × 175 mm	200 × 140 × 280 mm
Permissible ambient temperature	5 – 40 °C	5 – 40 °C
Permissible relative humidity	80 %	80 %
Protection class according to DIN EN 60529	IP 20	IP 20
Voltage	220 – 230 V	220 – 230 V
Frequency	50/60 Hz	50/60 Hz
Motor rating input	12 W	65 W
Power input	12 W	92 W

FAQ | mini G

Does IKA offer a rotor for PCR strip tubes?

Yes, a rotor for four strips 8 x 0.2 ml is included with the mini G.

What is the maximum kinetic energy for the mini G?

The maximum kinetic energy is 20 Nm.

What happens when the lid of the centrifuge is opened?

The centrifuge stops immediately.

What tool is needed to change the rotor?

The rotor can be changed without any tool.

Is a timer included in the mini G?

Yes, the timer can be adjusted from 1 – 99 min.

What is the centrifugal acceleration for the mini G?

The centrifugal acceleration for the mini G is 2000 G.

Does the mini G possess a digital display?

Yes, the mini G has an integrated 7 segment LED timer.

Is it possible to change the speed?

No, the speed is fixed at 6000 rpm.

FAQ | G-L

Does the IKA G-L have a digital display?

Yes, there are three displays. It is possible to see the rpm/rcf value on one display, the timer/counter setting on another display and the selected program on the third display.

Is it possible to change the speed?

Yes, the speed is variable in steps of 100 rpm/rcf.

What tool is needed to change the rotor?

The rotor can be changed without any tool.

In the case of a power failure, will the lid of the G-L open automatically?

No, when there is a power failure, the lid will remain closed to protect the samples. However, an emergency opening is located at the bottom.



Accessories

for IKA G-L



IKA G-L, PCR Set
Capacity: 2 × PCR strips,
8 × 0.2 ml tubes.

Ident. No. 0030001345



Adapter 0.4 ml tube
Adapters for 0.4 ml tubes (6 pcs.)
The capacity of G-L centrifuge is
12 × 1.5/2.0 ml

Ident. No. 0030001334



Adapter 0.5 ml tube
Adapters for 0.5 ml tubes (6 pcs.)
The capacity of G-L centrifuge is
12 × 1.5/2.0 ml

Ident. No. 0030001347



Adapter PCR tube
Adapters for 0.2 ml PCR tubes (6 pcs.)
The capacity of G-L centrifuge is
12 × 1.5/2.0 ml

Ident. No. 0030001346

for IKA mini G



mini G, Rotor 4 × HPLC
Rotor for 4 × HPLC vials.
Ident. No. 0020022341

LABORATORY SOFTWARE



labworldsoft® is a laboratory software to control lab devices, automate processes, and to document your measurements and results. The software provides access to a huge library of different laboratory devices. labworldsoft® does not integrate only IKA laboratory devices, but supports several other devices from different manufacturers as well. You stay flexible in the choice of your lab devices you want to use and profit from the whole device range of the laboratory world.

labworldsoft® 6 Starter
Ident. No. 0020019397

labworldsoft® 6 Pro
Ident. No. 0020017366

labworldsoft® 6 Advanced
Ident. No. 0020105873

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PIPETA
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SPECIAL
PROMOCIJA

-15%

MIXING, HEATING, COOLING |
MATRIX THERMOSHAKERS

MATRIX

/// THERMOSHAKERS

Mixing, heating, cooling, or all at once? MATRIX is a powerful thermoshaker family and your ideal companion for sample preparation in laboratories for molecular biology, pharmaceuticals or biochemistry. Regardless whether blood samples, pharmaceutical agents, DNA/RNA samples or ELISA assays – samples with even the smallest volumes are mixed reliably and completely in all laboratory applications.



DIFFERENT MODELS

The models of the MATRIX thermoshaker family have different features, to provide you with a device fulfilling precisely the functions you need for your experiments.



Intuitive use

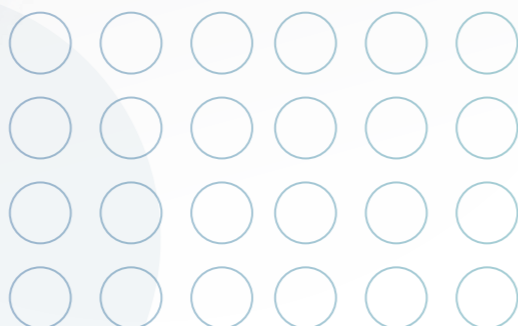
The large clear display allows an absolutely intuitive navigation with a user-friendly and self-explanatory menu structure.

High speed

Speeds of up to 3000 rpm ensure that the liquid is mixed particularly quick and effective thanks to its orbital movement.

Extra stable housing

Excellent stability and everyday robustness is achieved by the aluminum die cast housing. This ensures a secure positioning and strengthens the whole device.



Mixing

~~1699€~~
1444,15€ **-15% Popust**



MATRIX ORBITAL

/// Suitable for three different inserts.

Ident. No.: 0030000627

Mixing & heating

~~2299€~~
1954,15€ **-15% Popust**



MATRIX ORBITAL DELTA

/// Available with different fixed attachments.

Model: FP | F0.5 | F1.5 | F2.0

Ident. No.: 0030000751 | 0030000747 | 0030000750 | 0030000753

Heating & cooling

~~1999€~~
1699,15€ **-15% Popust**



MATRIX DELTA PLUS

/// Available with variable attachments.

Ident. No.: 0030000717

Mixing, heating & cooling

~~2499€~~
2124,15€ **-15% Popust**



MATRIX ORBITAL DELTA PLUS

/// Available with variable attachments.

Ident. No.: 0030000731

VARIETY OF ATTACHMENTS

A wide range of interchangeable attachments enables the thermoshakers to be flexibly adapted to different requirements and applications. Sample vessels with different volumes as well as microtiter plates and deep well plates can be mixed and tempered. A stable quick-release fastener makes it easier to exchange the attachments, and at the same time ensures they are optimally fixed for effective temperature transfer.

User safety is guaranteed, as high temperatures are not transferred to the frame. Also, the MATRIX unit automatically recognizes which attachment the user has chosen.

Enzyme reactions

The model MATRIX Delta Plus allows incubation of the reaction mix at the enzyme specific temperature, without shaking.

The attachments are adapted to the shape of the tubes to ensure uniform conditions throughout the entire vessel.

High-throughput PCR

High-throughput samples can be incubated with the attachments for 96 and 384 well PCR plates and tubes.

With the models MATRIX Delta Plus and MATRIX Orbital Delta Plus the plates can be heated, cooled and mixed as desired.

ATTACHMENTS

MX PCR96 / Ident. No.: 0030000853

MX PCR384 / Ident. No.: 0030000857

MATRIX ORBITAL DELTA PLUS
Ident. No.: 0030000731

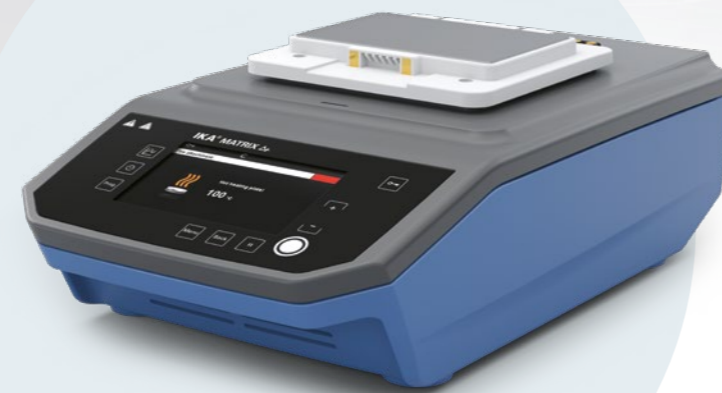


ATTACHMENTS

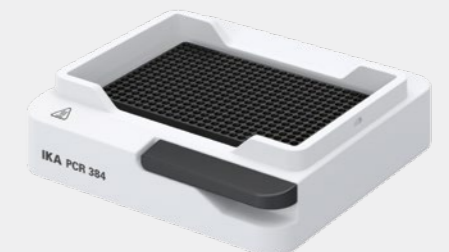
MX 0.5 ml / Ident. No.: 0030000840

MX 1.5 ml / Ident. No.: 0030000829

MX 2.0 ml / Ident. No.: 0030000834



MATRIX DELTA PLUS
Ident. No.: 0030000717



Cell culture

Media, components or cell cultures can be tempered and mixed with the 5 ml, 15 ml, 50 ml and the 12 mm attachments for the models MATRIX Delta Plus and MATRIX Orbital Delta Plus.



MX carrier / Ident. No.: 0030000849



For gentle thawing of frozen cells the attachment for 1.5 ml and 2 ml cryo vials is ideal. To ensure cell viability the slow tempering mode can be activated, which increases the temperature slowly and carefully.

The MX carrier attachment for cell culture plates allows tempering and mixing of various plates. The two inbuilt tempering modes adjust the heating or cooling as needed.

ATTACHMENTS

- D MX 12.0 mm / Ident. No.: 0030000844
- E MX cryo / Ident. No.: 0030000848
- F MX 5.0 ml / Ident. No.: 0030000859
- G MX 15.0 ml / Ident. No.: 0030000821
- H MX 50.0 ml / Ident. No.: 0030000863



MATRIX ORBITAL DELTA PLUS
Ident. No.: 0030000731

AUTOMATED TEMPERATURE SHIFT

Through programmable temperature ramps the model MATRIX Orbital Delta Plus can perform mixing, cooling and heating steps automatically. A series of 5 steps can be programmed to perform an experiment independently and reliably.

Restriction digestion

The digestion of DNA samples is performed automatically with no further supervision needed. The programs are set following the reaction protocol. In step 1 ideal reaction conditions for the enzyme are established to digest the DNA. The reaction is then stopped with step 2 by heating up and therefore denaturing the enzyme. To prevent DNA degradation the sample is cooled in step 3 until the sample is processed further.

PROGRAMMED STEPS:

- Step 1: 37 °C for 1 h
- Step 2: 65 °C for 10 min
- Step 3: 4 °C



ATTACHMENT
MX 1.5 ml / Ident. No.: 0030000829



MATRIX ORBITAL DELTA PLUS
Ident. No.: 0030000731

Incubation of Elisa plates

With MATRIX Orbital Delta FP the ELISA plates can be mixed at room temperature or heated during incubation.

If also cooling of the plates while mixing is required, the MX carrier attachment and model MATRIX Orbital Delta Plus can be used.



MATRIX ORBITAL DELTA FP
Ident. No.: 0030000751



ATTACHMENTS

- MX insert PCR96 / Ident. No.: 0030001159
- MX insert 0.5 ml / Ident. No.: 0030001157
- MX insert 1.5/2.0 ml / Ident. No.: 0030001158

MATRIX ORBITAL

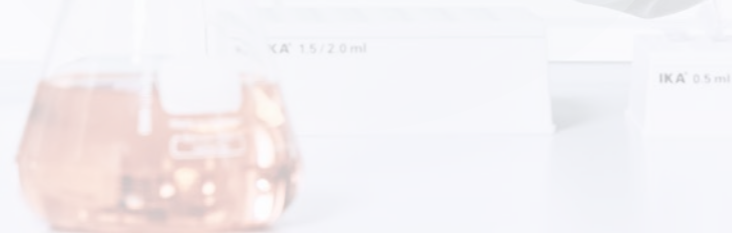
Ident. No.: 0030000627

Mixing samples at room temperature

MATRIX Orbital can mix samples in various tubes or microplates with a speed range from 300 – 3000 rpm.

The shaking diameter of 3.0 mm generates effective mixing of the samples even in the microliter range.

With the "Quick mix"-button the samples are mixed fast for as long as the button is pressed (touch function).



Why should the formation of condensate be avoided?

When the samples are heated, liquid evaporates from the tubes or wells and accumulates on the vessel lid. This shifts the concentrations in the reaction mix. For example, the decreased amount of substrate leads to a reduced enzyme activity.



LIGHT PROTECTION

The cover can be used to shield light sensitive samples.

MX cover / Ident. No.: 0030001253



THERMOCOVER

The heatable ThermoCover prevents condensation on the vial lid and wall. At the same time it enables constant reaction conditions.

MX thermocover / Ident. No.: 0030001244




TECHNICAL DATA

MODEL	MATRIX ORBITAL	MATRIX ORBITAL DELTA FP F0.5 F1.5 F2.0	MATRIX DELTA PLUS	MATRIX ORBITAL DELTA PLUS
Mixing	Yes	Yes	–	Yes
Heating	–	Yes	Yes	Yes
Cooling	–	–	Yes	Yes
Type of movement	Orbital	Orbital	–	Orbital
Attachments	Variable inserts	Fixed attachment for plates 0.5 1.5 2.0 ml	Variable attachments	Variable attachments
Shaker diameter	3 mm	3 mm	–	3 mm
Permissible shaking weight (excl. attachment)	–	0.3 kg	0.3 kg	0.3 kg
Speed min (adjustable)	300 rpm	300 rpm	–	300 rpm
Speed max.	3000 rpm	FP F0.5: 300 - 2000 rpm F1.5 F2.0: 300 - 1500 rpm	–	3000 rpm (depending on attachment)
Heating temperature min.	–	Room temp. +4 °C	Room temp. -30 °C	Room temp. -15 °C
Heating temperature max.	–	100 °C	110 °C	100 °C



ACCESSORIES

SHAPES OF THE HOLE

ATTACHMENTS	Diameter	Depth	Bottom Shape	Ident No.
(A) MX 0.5 ml	8.1 mm	28.0 mm	Conical 	0030000840
(B) MX 1.5 ml	11.1 mm	36.5 mm	Conical 	0030000829
(C) MX 2.0 ml	11.1 mm	36.7 mm	Conical 	0030000834
(D) MX 12.0 mm	12.5 mm	33.5 mm	Flat 	0030000844
(E) MX cryo	12.5 mm	33.5 mm	Flat 	0030000848
(F) MX 5.0 ml	17.0 mm	54.5 mm	Conical 	0030000859
(G) MX 15.0 ml	17.0 mm	105 mm	Conical 	0030000821
(H) MX 50.0 ml	30.0 mm	97.0 mm	Conical 	0030000863
(I) MX PCR96	6.44 mm	14.0 mm	Conical 	0030000853
(J) MX PCR384	4.0 mm	8.0 mm	Conical 	0030000857

CARRIER AND INSERTS	Usage	Ident No.
(K) MX carrier	Suitable for microtiter and deep-well plates	0030000849
(1) MX insert PCR96	For PCR tubes	0030001159
(2) MX insert 1.5/2.0 ml	For 1.5 ml & 2.0 ml tubes	0030001158
(3) MX insert 0.5 ml	For 0.5 ml reaction tubes	0030001157

COVER AND THERMOCOVER	Usage	Ident No.
(L) MX cover	For attachments PCR 96, 384; 0.5, 1.5, 2.0 ml	0030001253
(M) MX thermocover	For attachments PCR 96, 384; 0.5, 1.5, 2.0 ml	0030001244





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