



designed for scientists



MATRIX Orbital

/// Data Sheet

The IKA Matrix Orbital is part of a new and powerful product family of thermoshakers available. IKA Matrix Orbital mixes and is suitable for variable inserts. Whether its blood samples, pharmaceutical agents, DNA/RNA samples or ELISA assays – samples with even the smallest volumes mix reliably and completely in all laboratory applications. No cross-contamination and an optimal mixing result.

In addition, IKA Matrix Orbital comes with numerous user-friendly features:

- Large and clear display with a convenient menu structure allows for intuitive operation



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- Speeds of up to 3,000 rpm and shaker diameter of 3 mm ensure the liquid mixes quickly and effectively
- Speed adjustment according to insert, attachment and filling volume
- Aluminum die cast housing ensures secure positioning, excellent stability and everyday robustness

Scope of delivery

- MATRIX Orbital
- MX insert PCR96
- MX insert 0.5 ml
- MX insert 1.5/2.0 ml
- USB A-B Cable



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Technical Data

Type of movement	orbital
Shaking stroke [mm]	3
Maximum load [kg]	0.3
Permissible ON time [%]	100
Speed min (adjustable) [rpm]	300
Speed range [rpm]	0 - 3000
Speed display	TFT
Speed deviation [rpm]	±30
Speed adjustment	10 RPM Steps
Timer	yes
Timer display	TFT
Time setting min. [s]	1
Time setting max. [min]	6000
Operating mode	timer and continuous operation
Working with microtiter plates	yes
Number of reaction vessels	24x 0.5 ml / 24x 1.5 ml / 24x 2.0 ml
Number of PCR plates	1
Number of Deep Well Plates (DWP)	1
Dimensions (W x H x D) [mm]	200 x 120 x 320
Weight [kg]	7.2
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 21
RS 232 interface	yes
USB interface	USB-B
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	80
Power input max. [W]	80
Fuse	2x T4A 250V