



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
- Two different speed modes for optimal mixing
- Speed adjustment according to insert, attachment and filling volume
- Aluminum die cast housing ensures secure positioning, excellent stability and everyday robustness



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 | yes |
| Voltage [V] | 100 - 240 |
| Frequency [Hz] | 50/60 |
| Power input [W] | 80 |
| Power input max. [W] | 80 |
| Fuse | 2x T4A 250V |