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# MICROSTAR 7.5 control

/// Data Sheet

The new MICROSTAR series by IKA: Developed using the latest cutting-edge technology, this high-tech overhead stirrer with its compact design is ideal for special applications.
Combining high performance with particular excellence, they require minimum space and come with a lifetime guarantee. See for yourself:

“The Lightweight” in the smallest high-tech class with low HP, but very fast nonetheless!

- Hardened glass enclosed, fast response display for maximum visibility and chemical resistance

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- State-of-art vibration sensors detect deviations from permissible thresholds and automatically stop the process
- Clear display for all essential information at a glance
- Integrated timer / counter for the control of kinetic sensitive reactions and reminders
- Viscosities up to 4,000 mPas and volume of up to 5 l
- Continuously adjustable speed between 0/30 – 2,000 rpm
- USB interface, e.g. for documenting parameters using labworldsoft® or installing firmware updates
- Intuitive and simple handling; touch-sensitive surface for long service life
- Temperature reading on display
- Chemically resistant housing
- Key lock function
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity

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## Technical Data

| | |
|---|---|
| Stirring quantity max. per stirring position (H2O) [l] | 5 |
| Motor rating input [W] | 32 |
| Motor rating output [W] | 22 |
| Motor principle | Brushless DC |
| Speed display | LCD |
| Speed range [rpm] | 0/30 - 2000 |
| Viscosity max. [mPas] | 4000 |
| Output max. at stirring shaft [W] | 15.7 |
| Permissible ON time [%] | 100 |
| Torque max. at stirring shaft [Ncm] | 7.5 |
| Speed control | Turning knob |
| Setting accuracy speed [±rpm] | 1 |
| Deviation of speed measurement n > 300rpm [±%] | 1 |
| Deviation of speed measurement n < 300rpm [±rpm] | 3 |
| Stirring element fastening | chuck |
| Connection for ext. temperature sensor | PT1000 |
| Temperature display | yes |
| Chuck range diameter [mm] | 0.5 - 8.2 |
| Hollow shaft, inner diameter [mm] | 8.5 |
| Hollow shaft (push-through - when stopped) | yes |
| Fastening on stand | extension arm |
| Extension arm diameter [mm] | 13 |
| Extension arm length [mm] | 160 |
| Torque display | yes |
| Speed control | electronic |
| Nominal torque [Nm] | 0.075 |
| Torque measurement | trend |
| Deviation of torque measurement l [±Ncm] | 3 |
| Timer | yes |
| Timer display | LCD |
| Time setting range [min] | 0 - 6000 |
| Temperature measuring range [°C] | -10 - 350 |
| Temperature measurement resolution [K] | 0.1 |
| Accuracy of temperature measurement [K] | ±0.5 + tolerance PT1000 (DIN EN 60751 Class A) |
| Limit deviation temperature sensor [K] | ≤ ± (0.15 + 0.002xITI) |
| Housing material | alu-cast coating / thermoplastic polymer |
| Communication distance (depend onbuilding) max. [m] | 150 |
| Dimensions (W x H x D) [mm] | 60 x 173 x 136 |
| Weight [kg] | 1.18 |
| Permissible ambient temperature [°C] | 5 - 40 |
| Permissible relative humidity [%] | 80 |
| Protection class according to DIN EN 60529 | IP 54 |
| USB interface | yes |
| Voltage [V] | 100 - 240 |
| Frequency [Hz] | 50/60 |
| Power input [W] | 32 |
| DC Voltage [V=] | 24 |
| Current consumption [mA] | 1300 |

# Wolf Laboratories Limited

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