



designed for scientists



## NANOSTAR 7.5 digital

/// Data Sheet

The overhead stirrer NANOSTAR 7.5 digital is 30 % smaller than the MICROSTAR 7.5 digital and therefore even more space-saving. However, its performance remains the same. NANOSTAR 7.5 digital convinces with perfect basic functionalities, its compact design and is with just 0,8 kg easy to handle.

Constant torque

NANOSTAR 7.5 digital guarantees a constant torque over the entire rpm range from 50 - 2.000 rpm.

Ease of operation



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Operation takes place using a stable rotary knob. The display clearly shows the rotational speed.

#### Rapid updates

Regular software updates can be undertaken rapidly and simply via the USB interface.



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## Technical Data

|                                                                     |                                          |
|---------------------------------------------------------------------|------------------------------------------|
| Stirring quantity max. per stirring position (H <sub>2</sub> O) [l] | 5                                        |
| Motor rating input [W]                                              | 32                                       |
| Motor rating output [W]                                             | 22                                       |
| Motor principle                                                     | Brushless DC                             |
| Speed display                                                       | LED                                      |
| Speed range [rpm]                                                   | 0/50 - 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 adjustment                                                    | 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                                    |
| 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                                      |
| Nominal torque [Nm]                                                 | 0.075                                    |
| Timer display                                                       | none                                     |
| Housing material                                                    | alu-cast coating / thermoplastic polymer |
| Dimensions (W x H x D) [mm]                                         | 53 x 147 x 130                           |
| Weight [kg]                                                         | 0.8                                      |
| 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                                       |
| Power input standby [W]                                             | 0.3                                      |
| DC Voltage [V=]                                                     | 24                                       |
| Current consumption [mA]                                            | 1300                                     |