



designed for scientists



T 18 brushless digital ULTRA-TURRAX®

/// Data Sheet

The T 18 brushless digital is an economical high performance dispersing instrument with a wide speed range of 3000 - 25 000 rpm for working volumes of up to 1.500 ml (H₂O). It enables users to work at high circumferential speeds even with small rotor diameters. A broad choice of dispersing elements guarantee a wide range of applications for efficient emulsification, homogenization, dispersing and suspending and a reduction of particle sizes to the micrometer range. With the following features, this disperser meets the needs of a modern laboratory:

- Brushless motor for improved motor life, quieter operation and hygienic applications
- Digital speed display and setting



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- Timer function for unattended operation
- Quick coupling for easy and fast exchange of dispersing elements for cleaning and maintenance
- USB interface for remote control and parameter documentation with the laboratory software labworldsoft®
- Wide range of dispersing tools available; stainless steel with high chemical resistance or disposable plastic tools

The dispersing tools and accessories of the T 18 digital are also compatible with T 18 brushless digital.
The dispersing tool is not included in the scope of delivery.



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Technical Data

| | |
|--|----------------|
| Motor rating input [W] | 400 |
| Motor rating output [W] | 300 |
| Volume range (H ₂ O) [l] | 0.001 - 1.5 |
| Viscosity max. [mPas] | 5000 |
| Speed range [rpm] | 3000 - 25000 |
| Speed deviation [%] | 2 |
| Speed adjustment | stepless |
| Speed display | LED |
| Noise without element [dB(A)] | 70 |
| Motor principle | Brushless DC |
| Extension arm diameter [mm] | 13 |
| Extension arm length [mm] | 160 |
| Process type | batch |
| Timer | yes |
| Timer display | LED |
| Permissible ON time [%] | 100 |
| Dimensions (W x H x D) [mm] | 89 x 270 x 161 |
| Weight [kg] | 3 |
| Permissible ambient temperature [°C] | 5 - 40 |
| Permissible relative humidity [%] | 80 |
| Protection class according to DIN EN 60529 | IP 30 |
| USB interface | yes |
| Voltage [V] | 220 - 240 |
| Frequency [Hz] | 50/60 |
| Power input [W] | 400 |