

## TT-3000 Smart Mixer

### HIGHLIGHTS

- **Pre-programmed soft keys:**  
Allow selection of pre-set mixing parameters
- **Stable:**  
Remain stationary even at maximum mixing speed
- **Touch vortex:**  
3,500 rpm
- **Universal holder:**  
Universal holder with steel springs hold plates and tube holder firmly in place even at 3,000 rpm mixing speed
- **LED display:**  
Clear display for ease of setting and reading



TT-3000 Smart Mixer is designed to mix and vortex aqueous solutions and suspensions in various types of micro test tubes and micro test plates.

It can hold from 0.2 ml PCR tubes to 2.0 ml micro test tubes as well as PCR plates, MTP & DWP at a maximum mixing frequency up to 3,000 rpm.

Variable speed control and optional tube holders make this mixer ideal for a wide range of mixing applications.

### APPLICATIONS

- Controlled mixing of PCR, restriction or other enzyme reactions
- Resuspension of DNA, RNA, protein or cell pellets in tubes and in plates
- Vortexing in micro test tubes and in 15 ml/ 50 ml screw-cap tubes

### EACH STANDARD SET INCLUDES

- TTC/H-100-MIX-A 96x0.2 ml tube holder
- TTC/H-100-MIX-B 24x0.5 ml tube holder
- TTC/H-100-MIX-C 24x1.5 ml/ 2.0 ml tube holder



96-well skirted PCR plates, 384-well PCR plates and deep well plate can be loaded into the universal holder without requiring any tube holder.

## 3-IN-1 MODULE MIXER

Allow mixing of aqueous solutions in various types of plates, tubes and vortex mixing

### 1. Plates

- PCR plates (skirted, semi-skirted, unskirted)
- 384-well PCR plate
- 96 and 384 deep well plates
- MTP

### 2. Tubes

- 0.2 ml PCR tubes and PCR strips
- 0.5 ml microtest tubes
- 1.5 ml / 2.0 ml microtest tubes

### 3. Vortex



## SOFTKEYS FOR PRESET OPTIMIZED MIXING PARAMETERS

Softkey	Speed (rpm)	Time (s)	Tube / Plate	Fill Level (%)
384	2000	15	MTP and DWP (384-well)	10-60
PCR 384	2600	15	PCR Plate (384-well)	10-50
96	1000	30	MTP (96-well)	5-60
PCR 96/ 0.5	1650	30	PCR plates & DWP (96-well), PCR tubes (0.2 ml) and micro test tubes (0.5 ml)	5-50
1.5/ 2.0	1400	60	Test tubes (1.5/2.0 ml)	5-80

## TECHNICAL DATA

### Specifications

### TT-3000 Smart Mixer

Speed range	300 - 3000 rpm
Touch vortex speed	3500 rpm
Orbit diameter	3 mm
Operation mode	Timer, touch vortex and continuous operation
Digital time setting	1sec – 99h 59min
Noise Level	<50 dB
Voltage	AC 100-240V, 50/ 60Hz
Power	45W
Fuse	250A, 1A, Ø5x20
Dimension (W x D x H)	196 x 270 x 170 mm
Net weight (kg)	7.7 kg
Permissible ambient temperature	4 - 45°C
Permissible relative humidity	≤70%

## ORDERING INFORMATION

Cat. No.	Smart Mixer
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TT-3000	Smart Mixer TT-3000, 300-3,000 rpm, 3 mm, AC 100-240V
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Cat. No.	Tube Holder for Smart Mixer
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TTC/H-100-MIX-A	Tube holder for Smart Mixer, 96 x 0.2 ml
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TTC/H-100-MIX-B	Tube holder for Smart Mixer, 24 x 0.5 ml
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TTC/H-100-MIX-C	Tube holder for Smart Mixer, 24 x 1.5 ml/ 2.0 ml
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TTC/H-100-MIX-A



TTC/H-100-MIX-B



TTC/H-100-MIX-C