

Homogenizer



Brand: IKA, USA

Model: ULTRA-TURRAX® T 25 basic

Custodian: Sirichai Kositarat

Location: K639 Room, 6th Floor, Chaloeprakiet Building, Phyathai Campus

Description and Specification:

- > Particle reduction, emulsifications, and reaction enhancements in chemical, pharmaceutical, and food research
- > Tissue homogenization for biological and medical research
- > Heavy metals analysis in sludge samples
- > Homogenization of marine samples for separating bacteria aggregates

Description	Specification
Operating range	1-2500 mL
Speed range	infinitely variable from 11000-24000 rpm
Max. Ambient Temperature	40 °C
Max. Speed	24000 rpm/min
Min. Speed	6500 rpm/min
Max. Working Volume	2 L
Min. Ambient Temperature	5 °C
Min. Batch Volume	0.001 L
Speed Range	Max. Speed 24000 rpm/min Min. Speed 11000 rpm/min
Possible sterilization methods	all methods are possible (depending on the dispersion tool)
Noise without dispersion tool	78 dB(A)
Bracket Diameter	13 mm
Bracket Length	0.175 m
Frequency	50/60 Hz
Motor Power Input	500 W
Motor Power Output	300 W
Over All Dimensions	Without Bracket (wxdxh) 2.76x2.60x8.70 in.
Overload Protection	yes
Permissible Humidity	80%
Process Type	batch
Protection Class	DIN 40050 IP 20
Regulation Of Speed	Stepless
Speed Display	scale
Speed Variation	Under Changing Load 1 %
Voltage	230 V
Weight	1.6 kg
Stirring Quantity (H2O)	0.3 to 2.50ml
Speed display	Scale
Overload protection	Yes

Dispersing Tool

Technical Data Dispersing Tool	S 25 N - 10 G	S 25 N - 18 G
Volume range (H2O) [ml]	1 - 100	10 - 1500
Stator diameter [mm]	10	18
Rotor diameter [mm]	7.5	12.7
Gap between rotor and stator [mm]	0.35	0.3
allowable Speed max. [rpm]	25000	25000
Circumferential speed max. [m/s]	9.8	16.6
Immersion depth [mm]	22 - 85	40 - 165
Shaft length [mm]	105	194
Material in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L
pH range	2-13	2-13
Suitable for solvents	yes	yes
Suitable for abrasive substances	yes	yes
Working temperature max. [°C]	180	180
Sterilization methods	all methods	all methods
Ultimate fineness, suspensions [μm]	10 - 50	10 - 50
Ultimate fineness, emulsions [μm]	1 - 10	1 - 10
Weight [kg]	0.152	0.4