

Benchtop High Speed Refrigerated Centrifuge

Model: TGL-16MB / TGL-16M

TGL16MB / TGL16M are microprocessor controlled centrifuges used in auxiliary laboratories in industry, colleges & research institutions, bio-technology, medical laboratories, hospitals, pharmaceutical laboratories and agriculture soil testing for determination of moisture equivalent of soil. It is also suitable for determination of settlement of paints, pastes, cosmetics and food products.

Performance

- ◆ High Speed :16000rpm.
- ◆ Wide variety of rotors & reduction adaptors.
- ◆ Special rotor connector.
- ◆ Precise temperature control up to -20°C .
- ◆ Pre-cooling feature.
- ◆ Brushless induction motor with frequency drive ensures gentle start.
- ◆ Microprocessor with LCD display, self-diagnosis of errors(TGL16MB).
- ◆ Parameters setting through easy to use control panel keys.
- ◆ Inverter fault detection with auto shutdown.
- ◆ CFC free refrigeration system.



TGL-16MB



TGL-16M

User friendly

- ◆ 30 program memory.
- ◆ 1—10 profiles of accelerations/deceleration.
- ◆ Choice of rpm / rcf setting & display.
- ◆ Operating panel with feather touch keys.
- ◆ Digital countdown timer 0-90 minutes.
- ◆ Last set parameters recall (Useful for repetitive analysis).
- ◆ Automatic door opening.

Safety

- ◆ Coded- rotor identification.
- ◆ Safety lid interlock to prevent lid opening during centrifugation Imbalance detection & centrifugation stop with display of error.
- ◆ Motor overload protection.
- ◆ Gas spring to prevent falling of door.
- ◆ Emergency lid lock release.

Technical Data

Model	TGL16MB	TGL16M
Order No.	TGL16MBF	TGL16MF
Type	LCD screen / plastic and metal frame	Digital display / metal frame
Max.speed	16000rpm	16000rpm
Max rcf	17800×g	17800×g
Motor	inverter motor	brushless motor
Compressor	Imported compressor	imported compressor
Temp range	$-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Time accuracy	$\pm 2^{\circ}\text{C}$	$\pm 2^{\circ}\text{C}$
Time range	0-99min	0-99min
Noise	<55db	<55db
Display	LCD	Digital display
Acceleration/ Deceleration rates	1- 10	
Power	AC220V, 50/60Hz, 20A	AC220V, 50/60Hz, 20A
Weight	70kg	75kg
Dimension	620×500×350mm(L×W×H)	620×470×320mm(L×W×H)



Rotor

	Order No.	Description	Max.Speed	Max.rcf	Material	Tube Order No.	Adapter		
							Order No.	Description	Tube order No.
Angle rotor	0112005/16	12×0.5ml	16000rpm	17800×g	Aluminium alloy	P0001			
	0148005/13	48×0.5ml	13000rpm	13910×g		P0001			
	0112015/16	12×1.5ml	16000rpm	17800×g		P0002			
	0124015/13	24×1.5ml	13000rpm	15710×g		P0002			
	0112022/16	12×2.2ml	16000rpm	17800×g		P0003			
	0124022/13	24×2.2ml	13000rpm	15710×g		P0003			
	01105/14	10×5ml	14000rpm	13200×g		P0004			
	011210/13	12×10ml	13000rpm	12740×g		P0008 P0010			
	01450/12	4×50ml	12000rpm	13900×g		P0016 P0018	A00005001	1.5ml/2.2ml×2×4	P0002 P0003
							A00005005	10ml×1×4	P0008 P0010
							A00005007	20ml×1×4	P0012
	01630/12	6×30ml	12000rpm	13900×g		P0013			
	01650/12	6×50ml	12000rpm	13280×g		P0016 P0018	A00005002	1.5ml/2.2ml×2×6	P0002 P0003
							A00005004	10ml×1×6	P0008 P0010
							A00005009	20ml×1×6	P0012
	014100/10	4×100ml	10000rpm	10975×g		P0020	A00010001	1.5ml/2.2ml×3×4	P0002 P0003
							A00010003	10ml×1×4	P0008 P0010
							A00010005	50ml×1×4	P0016 P0017 P0018
Swing bucket rotor	02410/06	4×10ml	6000rpm	4495×g	Stainless steel	P0009			
	022248/04	2×2×48microplate	4000rpm	1505×g					