

Refrigerated | Low speed | Benchtop



Order No.:0105020000

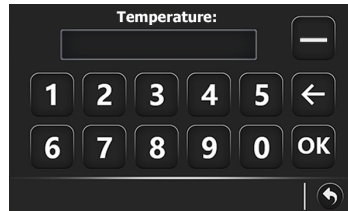
# TDL-5M



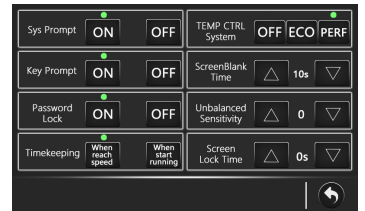
## LCD touch screen

- >Simple and clear to show all parameters
- >Touch screen,easy to set parameters
- >RCF can be set directly
- >Intelligent status display,real-time and real values
- >User can set parameters even with gloves
- >User can reset parameters when rotor is spinning

PROGRAM	ROTOR	SPEED	TIME	TEMP	ACC/DEC
001	cx	12X1. 5mL 10000rpm 6987xg	00:05:00	4	02/02
002		24X2mL 1001rpm 104xg	00:05:00	4	02/02
003		12X1. 5mL 1001rpm 70xg	00:05:00	4	02/05
004		12X1. 5mL 1001rpm 70xg	00:05:00	4	02/03
005		12X1. 5mL 1001rpm 70xg	00:05:00	4	02/02



	1	2	3	4	5	6	7
Speed	12000	15000	11000	8000	9000	10000	15000
Time	00:01:00	00:01:00	00:01:00	00:01:00	00:01:00	00:01:00	00:01:00
Temp	4	4	4	4	4	4	4
Rotor	12X1. 5mL	Acc 02	Dec 04	Add	Del		



## FEATURES

### User-friendly functions

- >up to 1000 user-defined programs
- >up to 100000 run histories,can be exported via USB
- >up to 40 rates acceleration and deceleration,speed downs curvelly slowly from 600rpm to 0rpm to prevent samples shake
- >up to 7 stages multi-stage centrifugation mode available
- >up to 99h59m59s timer range, 1s increment
- >Support short spin and continuous centrifugation
- >Reservation:can reserve cooling,turn on and turn off time
- >Curve display---Speed curve,RCF curve and Temperature curve are displayed together,clear to see their changing and relations.

### Refrigeration

- >High quality compressor unit
- >-20°C to +40°C ,1°C increment
- >±1°C high temperature accuracy
- >CFC-free refrigerant
- >PID dynamic temperature control
- >Temperature sensor inside the chamber
- >Starts refrigeration when power on
- >Maintains refrigeration after spin
- >With ECO energy-saving module

### Ensure safety

- >Imbalance detection by three axis gyroscope
- >Motorized electronic door lock
- >Door cannot be opened when rotor is spinning
- >Gas hinges to prevent door falling
- >Port in the door for calibration and operation checking
- >Emergency door lock release
- >Password to lock the device
- >User management with permission allocation
- >Various protections to ensure safe centrifugation
- >With never be lost electronic instruction manual

### Good components

- >Motor: Brushless variable frequency motor. stable running,maintenance free,long life
- >Housing: Thick and strong steel
- >Chamber: 316 stainless steel with teflon coating. anticorrosion and easy to clean
- >Rotor: Steel/Stainless steel swing out rotor.
- >Rotors are autoclavable

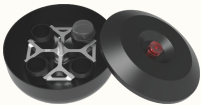
## TECHNICAL DATA

Max Speed	5000rpm	Time Setting	1s ~ 99h59m59s
Max RCF	5201xg	Noise	≤56dB(A)
Max Capacity	4x750ml	Voltage	220v/110v
Temperature Range	-20°C ~ +40°C	Power Consumption	1500w
Temperature Accuracy	±1°C	Dimension	600x680x420mm
Speed Accuracy	±10rpm	Weight	108kg

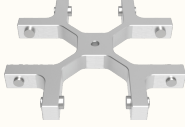


# AVAILABLE ROTORS

Swing out rotor									
Rotor body	Holder	Order No. (Rotor body+holder)	Max speed/RCF	Adaptor					
				Capacity	Order No.				
 <p>Order No.: 0495030720</p>	 <p>Capacity: 4×50ml Order No.: 0495030310</p>	0495030300	5000rpm/4650×g	4×1×5ml	1102020001				
				4×1×10ml	1102020002				
				4×1×15ml conical tube	1102020003				
				4×1×30ml	1102020004				
				4×1×10ml glass tube	1102020006				
	 <p>Capacity: 4×100ml Order No.: 0495030510</p>	0495030500	5000rpm/4650×g	4×3×2ml	1102030010				
				4×4×2ml frozen storage tube	1102030009				
				4×1×5ml	1102030001				
				4×1×10ml	1102030002				
				4×1×15ml conical tube	1102030003				
				4×1×30ml	1102030004				
				4×1×50ml	1102030005/round tube 1102030006/conical tube				
				 <p>Order No.: 0495150520</p>	 <p>Capacity: 32×15ml Order No.: 0495031110</p>	0495031100	4000rpm/2980×g	32×1×2ml	1102010008
								32×1×2ml blood tube	1102010001
32×1×7ml blood tube	1102010002								
32×1×10ml blood tube	1102010003								
 <p>Capacity: 8×50ml Order No.: 0495030410</p>	0495030400	4000rpm/2980×g	8×1×5ml		1102020001				
			8×1×10ml		1102020002				
			8×1×10ml glass tube		1102020006				
			8×1×15ml conical tube		1102020003				
			8×1×30ml		1102020004				
 <p>Capacity: 8×100ml Order No.: 0495030610</p>	0495030600	4000rpm/2980×g	8×4×2ml frozen storage tube		1102030009				
			8×3×2ml		1102030010				
			8×1×5ml		1102030001				
			8×1×10ml		1102030002				
			8×1×15ml conical tube		1102030003				
			8×1×30ml		1102030004				
			8×1×50ml		1102030005/round tube 1102030006/conical tube				











# AVAILABLE ROTORS

Swing out rotor					
Rotor body	Holder	Order No. (Rotor body+holder)	Max speed/RCF	Adaptor	
				Capacity	Order No.
	Capacity: 4×250ml	0495040800	5000rpm/5201×g	4×8×2ml	1102050001
				4×8×2ml frozen storage tube	1102050015
				4×8×5ml	1102050010
				4×5×5ml conical tube	1102050002
				4×10×7ml blood tube	1102050013
				4×9×10ml	1102050014
				4×5×15ml conical tube	1102050003
				4×2×30ml glass tube	1102050012
				4×2×50ml	1102050004/conical tube 1102050005/round tube
				4×1×100ml	1102050006

	Capacity: 4×250ml (conical bottle) Order No.:0495040410	0495040400	4200rpm/3551×g	/	/
	Capacity: 8×50ml Order No.:1004010008		4200rpm/3551×g	/	/

	 Capacity: 4×600ml Order No.: 1007010002  Note: No suitable bottle,must choose adaptor	0495070100	4000rpm/3400×g	4×20×2~7ml blood tube decap	0497010700
				4×20×10ml blood tube	1102090009
				4×12×15ml conical tube	1102090010
				4×5×50ml conical tube	1102090011
	 Capacity: 4×27×2~7ml blood tube decap Order No.: 1007010003	0495070200	4000rpm/3184×g	4×27×2~7ml	0497011400

# AVAILABLE ROTORS

Swing out rotor					
Rotor body	Holder	Order No. (Rotor body+holder)	Max speed/RCF	Adaptor	
				Capacity	Order No.
 <p>Order No.: 0495180610</p>	 <p>Capacity: 4×500ml Order No.: 1006010009 (without lid)</p> <p>Aerosol tight lid Order No.: 0495061110</p> <p>Note: Aerosol tight lid cannot be used when use 500ml bottle</p>	0495060100 (without lid)	4200rpm/3551×g	4×18×2ml	1102070001
				4×18×2ml frozen storage tube	1102070019
				4×19×7ml blood tube	0497010200
				4×14×10ml	1102070018
				4×14×10ml blood tube	1102070007
				4×9×15ml conical tube	0497010300
				4×4×50ml conical tube	0497010400
				4×2×100ml	1102070020
				4×1×100ml	1102070005
				4×1×250ml	1102070006
 <p>Order No.: 0495180610</p>	 <p>Capacity: 4×500ml (square bucket) Order No.: 0495060510</p> <p>Note: No suitable bottle, must choose adaptor</p>	0495060200	4200rpm/3551×g	4×25×2ml	1102080001
				4×25×2ml frozen storage tube	1102080015
				4×22×5ml	1102080008
				4×28×7ml blood tube	0497010100
				4×20×10ml blood tube	1102080003
				4×10×15ml conical tube	0497010500
				4×6×30ml	1102080014
				4×5×50ml conical tube	0497010600
				4×2×100ml	1102080006
				4×1×250ml	1102080007
 <p>Capacity: 4×2×96 well (micro plate) Order No.: 0495060610</p>		0495060300	4200rpm/3551×g	4×24×1.5/2ml	1102040001
 <p>Capacity: 96×2~7ml (blood tube) Order No.: 0495180720</p>		0495180600	4200rpm/3551×g	/	/
 <p>Capacity: 148×5ml (RIA tube) Order No.: 0496061010</p>		0495060900	4200rpm/3551×g	/	/

# AVAILABLE ROTORS

Swing out rotor						
Rotor body	Holder	Order No. (Rotor body+holder)	Max speed/RCF	Adaptor		
				Capacity	Order No.	
 <p>Order No.: 0495190110</p>	 <p>Capacity: 4×700ml Order No.: 0495190120 Note: No suitable bottle, must choose adaptor</p>	0495190100	4000rpm/3500×g	4×14×15ml conical tube	1102100010	
				4×5×50ml conical tube	1102100009	
				4×1×250ml conical bottle	1102100008	
				4×1×500ml conical bottle	1102100007	
	 <p>Capacity: 4×750ml Order No.: 0495190220</p>	0495080100	4000rpm/3500×g	4×24×2ml	1102100011	
				4×24×2ml frozen storage tube	1102100020	
				4×37×5ml RIA tube	1102100021	
				4×24×7ml blood tube	1102100001	
				4×18×10ml	1102100019	
				4×14×15ml	1102100017/round tube 1102100002/conical tube	
				4×8×30ml	1102100018	
				4×7×50ml conical tube	1102100003	
				4×3×100ml	1102100004	
				4×1×250ml	1102100005	
	4×1×500ml	1102100006				
		Capacity: 6×250ml	0495040600	4000rpm/3581×g	/	/
		Capacity: 48×2~7ml blood tube	0495180200	4000rpm/2980×g	/	/
		Capacity: 64×2~7ml blood tube	0495180300	4000rpm/2980×g	/	/
	Capacity: 2×3×96 well (micro plate)	0495010200	4000rpm/1971×g	2×24×1.5/2ml	1102040001	
	Capacity: 4×300ml  Note: No suitable bottle, must choose adaptor	0495050100	4000rpm/3023×g	4×15×1.5/2ml	1102060009	
				4×16×7ml blood tube decap	0497011000	
				4×9×15ml conical tube	0497011200	
				4×4×50ml conical tube	0497011300	
				4×1×100ml	1102060004	
				4×1×250ml	1102060005	