

TC-RefrigSpin Micro high speed refrigerated centrifuge

TC-RefrigSpin micro-high-speed freezing centrifuge has the advantages of powerful function, high versatility, simple operation and so on. It adopts advanced control technology, reliable quality and superior performance. It is widely used in medical laboratory, biochemical and molecular biology research and routine analysis in industrial laboratory, genetic genes, protein nucleic acid. PCR products and other experimental studies are more significant. A variety of rotors can be adapted to meet the needs of daily experiments.

Feature

- Temperature control range: -20~+40 C.
- The temperature can be maintained at -4 C /+4 C at the highest speed.
- The pre-cooling function can be quick cooling the samples.
- The setting temperature can be maintained continuously when centrifugal function is not used and the door cover is closed.
- It has automatic standby function, optimizes the refrigeration effect and prolongs the service life of the compressor.



TC-TR01

capacity: 1.5/2.2mlX24
Max. Speed:16000rpm
Max .Rcf:23470×g



TC-TR02

capacity: capillary blood tube X24
Max. Speed:12000rpm
Max .Rcf:14330×g



TC-TR03

capacity: 5mlX10
Max. Speed:16000rpm
Max .Rcf:18140×g



TC-TR04

capacity: 0.2mlX8X4
Max. Speed:14800rpm
Max .Rcf:16200×g



TC-TR05

capacity: 0.5mlX36
Max. Speed:15000rpm
Max .Rcf:16350×g

Stainless steel cavity, solid structure, suitable for continuous use, new and innovative automatic inhalation double lock, easy to open and close machine cover, open and close machine cover quiet and safe.

Optimized imported 5 inch LCD high-brightness black-and-white LCD display, setting and operating parameters real-time on-line clear.

It is equipped with automatic ID identification function of turning head to make the multi-turning head high-speed machine more safe and convenient to use, door cover protection, overspeed and unbalanced detection system. It can monitor the centrifugal process in real time, ensure the safe operation of the instrument, prompt the sound signal at the end of operation, error and unbalance, and stop running at the same time. LCD displays the result code.

Equipped with a sealed corner rotor equipped with rotor cover to prevent staff from being contaminated by samples.

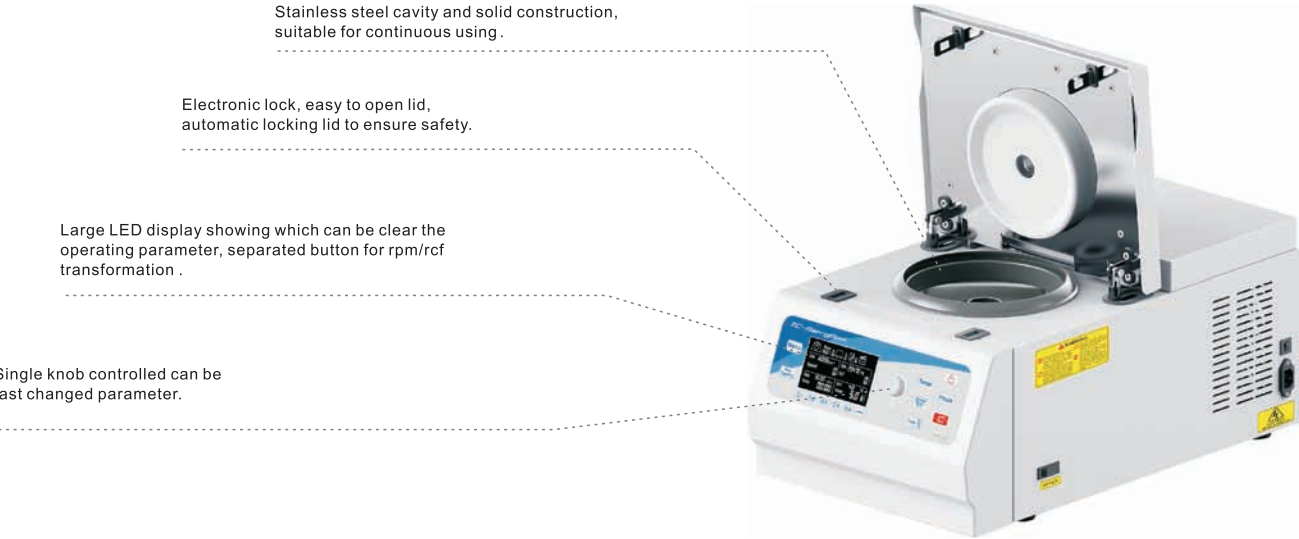
Introduction

Advanced and reliable Infineon vector sine wave drive control system can accurately control the speed, time and relative centrifugal force.

The maintenance free brushless frequency conver-sion induction motor is adopted. The speed range is 100 to 16000rpm, and the accuracy is 10rpm.

The single flash instantaneous centrifugal button can be quickly and conveniently centrifuged by pressing down.

High-strength main engine and turning head mate-rials, can resist various chemical corrosion, with sealing performance and unlimited high-temperature disinfection function, Teflon coated stainless steel cavity, excellent corrosion resistance, in-situ foaming, good insulation effect; accidental power off cover opening device reliable and convenient; cover with speed hole, easy to do speed monitoring Meet GMP requirements.



Order information

Cat.No.	Code No.	Specification
8011770	TC-RefrigSpin	Refrigerant high speed centrifuge
8011770-1	TC-TR01	1.5/2.2×24 Angle rotor Max:16000 (r/min)
8011770-2	TC-TR02	Capillary blood volume tube X24 Angle rotor Max: 12000 (r/min)
8011770-3	TC-TR03	5×10 Angle rotor Max:16000 (r/min)
8011770-4	TC-TR04	PCR 0.2×8×4 Angle rotor Max: 14800 (r/min)
8011770-5	TC-TR05	0.5×36 Angle rotor Max: 15000 (r/min)

ECOplate Magnetic Stirrer

The TM-ECOplate series of the digital magnetic stirrer hot plate series is made of special Ceramic and the special heating technique, the hot plate can reach temperature up to 360°C. Use the large Alnico material which can be provide the powerful magnetic force, it can be prevented the high temperature demagnetization and stir bar decoupling.Humanized design for convenient operation to meet various heating and stirring experimental needs.



Feature

- The plate with white ceramic with excellent corrosion resistance and keep it safety.
- The special electrical insulation composite material provide the excellent heating performance and the surface of hot plate can reach temperature up to 380°C.
- Advanced microprocessor controls allow quick, precise adjustment of speed and temperature.
- The integration timer which for monitoring the sensitive chemical reaction.
- DC brushless motor makes stable operation, low noise, long using life and no spark.
- HOT warning prompted to avoid scalding .
- Use the large Alnico material which can be provide the powerful magnetic force, it can be prevented the high temperature demagnetization and stir bar decoupling.

Specification

Power indication

Hearing overheating indication

external sensor indication

Actual Temp.

Actual Speed

Model	TM-ECOplate-S	TM-ECOplate-HS
Max stirrer volume	20L	20L
Speed range	100- 1500rpm	100- 1500rpm
Heating power	—	1000W
Max heating temp.	—	50/360°C
Speed range	LED	LED
Max length for the stir bar.	30mm	30mm
Max safty adjustable temp.	—	50/360°C
sensor control accuracy	—	PT1000/±0.5K
The material of surface plate	Ceramic	Ceramic

Order information

Cat.No.	Code No.	Specification
8011780	TM-ECOplate-S	220V Magnetic Stirrer (LED display)
8011781	TM-ECOplate-S	110V Magnetic Stirrer (LED display)
8011782	TM-ECOplate-HS	220V Magnetic Stirrer (LED display) with heating
8011783	TM-ECOplate-HS	110V Magnetic Stirrer (LED display) with heating

ECOplatePlus Magnetic Stirrer

Product description: The TM-ECOplate series of the digital magnetic stirrer hot plate series is made of special Ceramic and the special heating technique, the hot plate can reach temperature up to 360°C. Use the large Alnico material which can be provide the powerful magnetic force, it can be prevented the high temperature demagnetization and stir bar decoupling.Humanized design for convenient operation to meet various heating and stirring experimental needs.



Feature

- The plate with white ceramic with excellent corrosion resistance and keep it safety.
- The special electrical insulation composite material provide the excellent heating performance and the surface of hot plate can reach temperature up to 380°C.
- Advanced microprocessor controls allow quick, precise adjustment of speed and temperature.
- The integration timer which for monitoring the sensitive chemical reaction.
- LED display which can be show the setting temperature and actual temperature .
- DC brushless motor makes stable operation, low noise, long using life and no spark.
- HOT warning prompted to avoid scalding .
- Use the large Alnico material which can be provide the powerful magnetic force, it can be prevented the high temperature demagnetization and stir bar decoupling.

Specification

Power indication

Hearing overheating indication

external sensor indication

Actual Temp.

Actual Speed

Set Temp.

Set Speed

Model	TM-ECOplatePlus-S	TM-ECOplatePlus-HS
Max stirrer volume	20L	20L
Speed range	100- 1500rpm	100- 1500rpm
Heating power	—	1000W
Max heating temp.	—	50/360°C
Speed range	LCD	LCD
Integration timer (operation time avalibale)	99hours 59mins	99hours 59mins
Max length for the stir bar.	40mm	40mm
Max safty adjustable temp.	—	50/360°C
sensor control accuracy	—	PT1000/±0.5K
The material of surface plate	Ceramic	Ceramic

Order information

Cat.No.	Code No.	Specification
8011784	TM-ECOplatePlus-S	220V Magnetic Stirrer (LCD display)
8011785	TM-ECOplatePlus-S	110V Magnetic Stirrer (LCD display)
8011786	TM-ECOplatePlus-HS	220V Magnetic Stirrer (LCD display) with heating
8011787	TM-ECOplatePlus-HS	110V Magnetic Stirrer (LCD display) with heating

Vortex Mixer

This product is high speed small oscillator, is suitable for tube, centrifuge tube and ELISA plates oscillation.

change the accessory quickly and without any tool
Various fixture can select, the fixture will be distinguished automatic, security and reliable, easy for operation.



Feature

Compact structure designing, low center of gravity provide the stable operation when high speed.
Use the DC Brushless motor, long-life, low noise the motor drive directly, no belt loss.
Induction and variable frequency motor(without beltwork)
All the fixture, the instrument will distinguish automatic, speed limit automatic.
Chuck installing more conveniently.
Inching feature and consecutive operation, easy for switching.

Centric balance piece designing, amplitude can be achieved 4.5mm, nice oscillation effects.
Metal hull, reliable and strong.
Timing function, also can be countdown and digital showing.
Digital show the setting speed and operation speed,easy and clearly.
All the fixture can be inching feature and consecutive operation, suited to the lab requirement.
All the fixture, the instrument will distinguish automatic, speed limit autoatic.

Technical data

Model	TVM-47	TVM-A8
Oscillation Mode	Circumferential	Circumferential
Turnaround diameter	4.5mm	4.5mm
Speed range	200-3000rpm/min, stepless speed regulating	200-3000rpm/min, stepless speed regulating
Volatage	100~240V	100~240V
Maximum load	1.0kg	1.0kg
maximum load	All the fiture will be distinguished automatic, speed limit automatic, security and reliable, easy for operation	All the fiture will be distinguished automatic, speed limit automatic, security and reliable, easy for operation
Timing functions and showing	1s-999min Timing function, also can be countdown and digital showing	1s-999min Timing function, also can be countdown and digital showing
Speed setting and showing	Simulation setting and digital time showing	0-3000rpm ,Peal-time digital showing for speed and time
Driving	Induction and variable frequency motor (without beltwork)	Induction and variable frequency motor (without beltwork)
Motor input power	20W	20W
Motor input power	15W	15W
Operator schema	Inching feature and consecutive operation	Inching feature and consecutive operation
(WxDxH) /Dimension(MM)	210x150x69	210x150x69
Weight	4kg	4kg
Protection class	IP 21	IP 21
Standard configuration	V1.1/Standard gasket	V1.1/Standard gasket
Adaptive fixture	Standard gasket,EISA Plate fiture,universal fixture (flask, tube, centrifuge tube)	Standard gasket,EISA Plate fiture,universal fixture (flask, tube, centrifuge tube)

Order information

Code No	Part name and model	Specilification
8011250	TVM-A7	Simulation setting and digital time showing
8011251	TVM-A8	Real-time digital showing for speed and time
8011250-1	TVM-A8-1	use for setting tube which the diameter no more than 65mm smaller container,triangular flask gasket:0/200-3000rpm
8011250-2	TVM-A8-2	ELISA Plat fixture. Use for, ELISA plate and square adapter, Speed range:0/200-1500rpm
8011250-3	TVM-A8-3	Flasks fixture ,Together with flasks gaskets, Speed range:0/200-3000rpm
8011250-4	TVM-A8-4	100-240V adapter
8011250-5	TVM-A8-5	Flasks gasket fixture
8011250-6	TVM-A8-6	(Centrifuge tube) adapter, Together with ELISA pLate fixture, 30 jacks, Hole diameter 10mm
8011250-7	TVM-A8-7	(Centrifuge tube) adapter, Together with ELISA pLate fixture, 16 jacks, Hole diameter 12mm
8011250-8	TVM-A8-8	(Centrifuge tube) adapter, Together with ELISA pLate fixture, 12 jacks, Hole diameter 16mm

Magic Programmable Mixer

360° vertical rotating- for larger particles longer wavelength mixing

Swinging -for culture medium and larger particles medium- longer wavelength mixing

Oscillating- for small particles short wavelength mixing

Feature

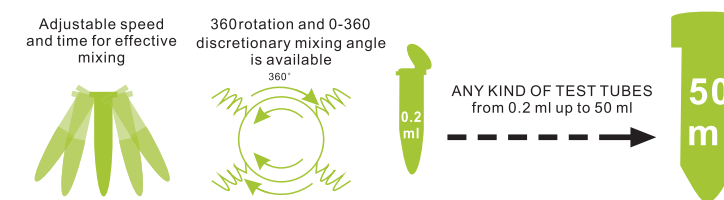
- Tube holder assemble discretionary
- Large LCD show the all the parameter
- 2 additional custom programs (6 segments /program) can be created easily
- 10 different programs for rotation and mixing
- 360° rotation and 0-360° discretionary mixing angle is available
- Adjustable speed and time for effective mixing
- Accept tubes from 0.2ml to 50ml
- Cold room and incubator compatible



The Magic mixer is a combination of variable speed rotator, advanced multiple tube vortex in one machine , it accept tubes from 0.2ml to 50ml ,all kinds of tube holder can be assembled discretionary in one rack.

The mixer can be used in ambient temperatures from +4 to 65°C , making it ideal for a variety of laboratory settings such as Molecular Biology ,Biochemistry ,Clinical and Histochemistry .

Small enough to fit on a crowded bench ,the mixer is easily moved where it is needed the bench . cold room ,incubator or biological hood .



Specification

Model	TM-MAGIC MIXER
Adaptor	DC 12V, 1000mA
Rotation speed	1-99rpm
Environment temperature	±4-65°C
Relative air humidity (at 20°C) %	up to 80

Orde information

Cat.No.	Code No	Specification
8011252	TMM-5L	420mm length Magic Mixer with standard rack (D10-12.5mm tubeX20, D16-16.5mm tubeX8,D29-29.5mm tubeX2)
8011252-1	LH5X36	Rack for diameter 10-12.5mm tubes X 36
8011252-2	LH15X22	Rack for diameter 16-16.5mm tubes X 22
8011252-3	LH50X12	Rack for diameter 29-29.5mm tubes X 12
8011252-4	LR15X12	Rack for diameter 16-16.5mm tubes X 12
8011252-5	LR50X12	Rack for diameter 29-29.5mm tubes X 12
8011253	TMM-5M	344mm length Magic Mixer with standard rack (D10-12.5mm tubeX12, D16-16.5mm tubeX2,D29-29.5mm tubeX2)
8011253-1	MH5X24	Rack for diameter 10-12.5mm tubes X 24
8011253-2	MH15X14	Rack for diameter 16-16.5mm tubes X 14
8011253-3	MH50X8	Rack for diameter 29-29.5mm tubesx8
8011253-4	MR15X6	Rack for diameter 16-16.5mm tubes X 6
8011253-5	MR50X6	Rack for diameter 16-16.5mm tubes X 6
8011254	TMM-5S	316mm length Magic Mixer with standard rack (D10-12.5mm tubeX8, D16-16.5mm tubeX2,D29-29.5mm tubeX2)
8011254-1	SH5X20	Rack for diameter 10-12.5mm tubes X 20
8011254-2	SH15X10	Rack for diameter 16-16.5mm tubes X10
8011254-3	SH50X6	Rack for diameter 29-29.5mm tubes X 6
8011254-4	SR15X6	Rack for diameter 16-16.5mm tubes X 6
8011254-5	SR50X6	Rack for diameter 29-29.5mm tubes X 6
8011255	TMM-PL	Mixer 420x125x168 with Platform (267X154)
8011256	TMM-PM	Mixer 344x125x168 with Platform (169X154)
8011257	TMM-PS	Mixer 316x125x168 with Platform (139X154)

Decolorising Shaker

This Decolorising Shaker which swings up and down with little swing amplitude. Frequency adjustable. it's used for fixing of running gel spectral band, rocking of Coomassie blue and decolorization and fixing of silver nitrate staining, etc. It's used for development and fixation of X-ray film, further treatment cellulose membrane after electrophoretic migration, molecular hybridization, cell culture and blood mixing.

Technical Data

Rocking Speed: 0-25 rpm
Rocking angle: ±25°
Working plate size: 250×200mm
External dimention: 420×200×200mm
Voltage: AC 80-230V (50/60Hz)
N.W.: 2.5Kg

Order information

Cat.No.	Part.No.	Specification
8011259	TMM-5DS	Decolorising Shaker



Feature
Rocking angle adjustable
Speed adjustable
Time setting



Large LCD show the all the parameter

TRM-7S digital Roller Mixer

TRM-7S digital Roller Mixer provides a gentle but highly efficient rocking and rolling motions, ideal for mixing blood samples, viscous substances and liquid-solid suspensions. Used in a variety applications, prevention of blood coagulation and immune precipitation etc.

Technical Data:

Speed : (adjustable,) 10-99 rpm +-10%
Motion : (Simultaneous roll&tilt +-5%)
Operating Temp :4°C-40°C
Electrical : 80-230V,50-60Hz 50W

Feature

Rocking and rolling motions for complete mixing
Display show the speed and time
Speed range of 10-99rpm
Seven roller design with small footprint and easy clean
Digital setting speed and time



Time showing Speed showing

Order information

Cat.No.	Part.No.	Specification
8011560	TM-7S	Roller Mixer(digital showing)

Mivot mixer

The Vortex mixer widely used in life science, physical and chemical analysis fields, for vigorous re-suspension of cells or chemical pellets in tubes up to 15 ml.

Features

Touch and continuous operations
Mini and compact appearance , powerful function , sucker type under-chassis , super shockproof, ideal for high speed operation.
Wide speed range:0-3000rpm/min, continuously variable motor and Brushless DC Motor are optional. Stable low speed, powerful high speed.
Shaking block convenient for replacement, stable and reliable, sturdy and durable eccentric bearing design.
Various shaking block adapters optional.(Suitable for Eppendorf Tube)



Specification

Orbit	4mm
Shaking mode	circle
Operation mode	Continuous running/ Short Mix
Speed Range	100 ~ 3000rpm
Voltage	AC220V/AC110V,50/60Hz
Power	60W



Order information

Cat.No.	Part.No.	Specification
8011690	TM-Mivot	Vortex Mixer 220V/50Hz(with standard head)
8011690-1	MT-S	Standard head. Suit for 1.5mlX8 centrifuge tubes
8011690-2	MT-A	Foam tube holder for 15mlX8 & 10mlX8
8011690-3	MT-B	50mlX6/Foam tube holder for 50mlX6
8011690-4	MT-C	Plate holder platform. For all standard plates
8011690-5	MT-D	Plate adapter suitable for less than 120mm diameter tube or container .
8011690-6	MT-E	Tube holder platform. For 1.5ml/2.0ml tubes x 12
8011690-7	MT-F	Tube holder platform. For 15ml tubes x 4
8011690-8	MT-G	Tube holder platform. For 50ml tubes x 2