



MX-307-207-107







MX-Series can provide energy-saving performance.



Full Lineup of the TOMY MX-Series Centrifuge that combines



MX-307

Flagship of the MX-Series, capable of accepting 50ml conical tubes.

- Accommodates all TOMY Rack-in-Rotors: TMA-100/200/300
- lacktriangle Stack up to three racks high, total 2ml imes 72 can be processed
- ■Accommodates a high g-force centrifugation rack : AR510-04 and 96-well PCR plate × 2 : PCR96-02





MX-207

From 2ml micro tubes to 30ml tubes, the MX-205 supports a wide range of applications.

- Accommodates two models of TOMY Rack-in-Rotors : TMA-100/200
- ullet Stack up to two racks high, total 2ml imes 48 can be processed
- ullet Accommodates a rotor rack for up to 5ml imes 12 : AR050-12







MX-107

Advanced centrifuge model with simple operation designed to spin micro tubes.

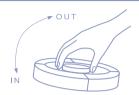
- Accommodates a TOMY Rack-in-Rotor TMA-100 compatible with four types of rack
- ullet Supports from 8-Strip PCR tubes : AR002-64 to 2ml imes 24 micro tubes
- Provides up to 15,000rpm high speed centrifugation
- All MX-107 compatible rotors can reach their maximum speed within 10 seconds.



Rack-in-Ration The Future of Centrifuge Rotor System









"Rack-in-Rotor" system using a combination of carbon fiber rotors and drop-in racks made of resin for greater convenience, higher performance and lower cost.

Drop-in / lift-out rotor racks for easy placement and removal

Lightweight resin racks have a drop-in / lift-out design which allows for easy placement and replacement of tubes. These rotor racks are available in a wide variety of types to suit your application.

Stackable Rack-in-rotor

Small size racks can be stacked in layer. For instance rack AR015-24, 24 tubes at one rack, times three and total 72 tubes spin at one time. Moreover all tube are in same G force because of same radius.

Lightweight and excellent acceleration/ deceleration performance

Each rack has four slits so that the adhesion of the rack to the inner wall of the rotor is facilitated by centrifugal force, providing stable operation of the rotor. Lightweight rotors and racks can also increase acceleration and deceleration performance.

A portable rack for sample tubes

A resin rack can be used for a wide range of purposes, including storage and transportation. It can be used as a tube stand or carrier to hold or transport all of sample tubes.

VX-Series HIGH SPEED REFRIGERATED MICRO CENTRIFUGE

The MX-Series is a high speed refrigerated micro centrifuge that is designed for high performance and simplicity of operation.

- Powerful motor and inverter realize fast acceleration and deceleration.
- User friendly, beautiful and functional design with human factors engineering in mind

- All models are equipped with an imbalance detection system as a standard safety function.
- Compact body with wheel design for easy installation and transportation

Easy-to-see, easy-to-use control panel

- User friendly center Jog Dial operation
- Highly visible dual color LED display for operating status indication
- Memory function storing up to two sets of operating parameters for more efficient centrifugation
- One touch key operation permits easy acceleration of the rotor to a maximum speed for the centrifugation protocol selected.
- ●1 99 minutes timer with 1 minute increment







ECO mode Electric power saving

The MX-Series centrifuge comes with an ECO mode to realize an up to approximately 43% (**1) reduction in electric power consumption during the waiting time.



**1 The figure mentioned above is calculated by comparing MX-305 and MX-307. The reduction rates of power consumption vary from model to model and may vary from one product to another.



Basic power saving



TOMY's MX-Series centrifuge has achieved an up to approximately 15% reduction in electric power consumption compared to the former model (MX-**5 Series) by controlling the motor fan drive during the waiting time (standby cooling).

**2 The figure mentioned above is calculated by comparing MX-105 and MX-107. The reduction rates of power consumption vary from model to model and may vary from one product to another.

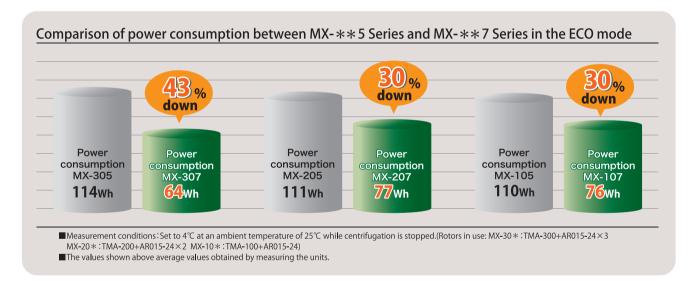


Switch-on ECO mode to save the power consumption

Patent pending

Activating the power-saving [ECO] mode can also help reduce the power consumption during the waiting time (standby cooling) by allowing the temperature fluctuation bands to be changed. The chamber can cool down to the set temperature within approximately three minutes after release from ECO mode.

3 Under the conditions: set temperature of 4° C at an ambient temperature of 25° C



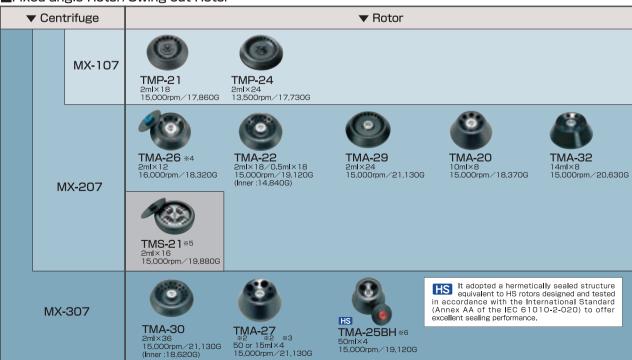


■Rotors/Racks For MX-Series High Speed Refrigerated Micro Centrifuge

	MX-307	les i ligit opeed i lettigetat		▼ Rotor Rack	
▶ Centrifuge		MX-207			
			MX-107		
► Rack-in-Rotor (Carbon Fiber Material)	TMA-300	TMA-200	TMA-100 Use one rack	AR002-64 8-Strip PCR Tube ×8 15,000rpm / 18,120G (Inner row :16,350G) AR005-24 0.5ml×24 15,000rpm / 19,880G **Can be triple-stacked in TM	AR004-24 0.4m1×24 15,000rpm/20,380G AR015-24 2m1×24 15,000rpm/20,380G A-300 and double-stacked in TMA-200
		Can be double-stacked Use one rack		AR015-SC24*1 2ml×24 15,000rpm/20,380G AR050-12 5ml×12 15,000rpm/20,130G	AR300-06 30ml×6 15,000rpm/20,380G AR141-08 14ml×8 15,000rpm/20,380G
		Can be triple-stacked Use one rack Use one rack		AR150-08 15m1×8 15,000rpm/20,380G AR501-04 50 or 14m1×4 15,000rpm/20,130G	AR510-04 *2 *2 *3 50 or 15ml×4 15,000rpm/20,380G PCR96-02 96 Well PCR Plate×2 14,000rpm A96-01PC Optional adapter, A96-01PC is required

*1 Ruck for spin cloumns *2 Culture tubes *3 50ml tubes cannot be centrifuged together with 15ml (or 14ml) tubes in the same rotor rack.

■Fixed-angle Rotor/Swing-out Rotor



■Standard Specifications

Models	MX-307	MX-207	MX-107		
Maximum Speed	16,000rpm		15,000rpm		
Maximum RCF	21,130G	21,130G	20,380G		
Maximum Capacity	50ml × 4	30ml × 6	2ml × 24		
Control System	Microprocessor control (feedback system)				
Drive Motor	Induction motor				
Drive System	Direct drive with an automatic alignment function				
Data Entry Device	Jog Dial				
Temperature Setting Range	−9 to 35°C (1°C increments)				
Speed Setting Range	300rpm to Maximum speed (100rpm increments)				
RCF Setting Range	100G to Maximum RCF (100G increments)				
Time Setting Range	0 to 99 minutes (1 minute increments) or <f> for free</f>				
Additional Functions	FLASH (momentary spin) functionMemory function (two sets)Previous setting memorySoft Brake function				
Safety Devices	 ●Lid interlock ●Lid open/close detector ●Over-speed detector ●Over-current circuit breaker ●Motor over-current detector ●Abnormally high or low chamber temperature detector ●Rotor identification system ●Imbalance detector 				
Refrigerant	HFC134a (240g)	HFC134a (210g)	HFC134a (200g)		
Power Requirements	Single phase AC110/120V 50/60Hz, 15A Single phase AC220/230/240V 50/60Hz, 8A				
Power Consumption (calorific heat value)	920W (790 k cal/h)	780W (670k cal/h)	650W (560kcal/h)		
Dimensions (except protrusion)	345W×465D×860H mm (1	open position: 1,125H mm)			
Net Weight	66kg (110/120V) 71kg (220/230/240V)	66kg (110/120V) 71kg (220/230/240V)	66kg (110/120V) 71kg (220/230/240V)		
Cord Length	3m				
Environmental Requirements	Ambient temperature range : 10 to 35°C, Relative humidity : 30 to 85%, Atmospheric pressure : 700 to 1,060hPa				
Operator's manual ×1copy ●Warranty card ×1copy ●Customer card ×1copy Accessories Included Inspection sheet ×1copy ●Hexagon wrench ×1pcs ●Clear storage case ×1pcs ●Attaching screw ×1pcs ●Caster holder × 2pcs ●Drain plug × 1pcs					

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