

## Specifications

Model	MDX-310	MDX-210	MDX-110
Maximum Speed	15,000rpm		
Maximum RCF	21,890G	20,380G	20,380G
Maximum Capacity	50ml × 4	30ml × 6	2ml × 24
Speed Control System	Microprocessor feedback control		
Drive Motor	Induction motor		
Data Entry	Jog Dial with ENTER key and Touchscreen Numeric keypad available		
Temperature Setting Range	From -9°C to +35°C (1°C increment)		
Speed Setting Range	300 to 15,000rpm (100rpm increments)		
RCF Setting Range	10 to Maximum RCF (Less than 300G : 10G increments, Over 300G : 100G increments)		
Time Setting Range	10sec ~ 99min50sec (in 10sec increments) or (Free) for a continuous run		
Safety Devices	Imbalance detector	Over-speed detector	
	Lid interlock	Motor over-current detector	
	Over-current circuit breaker	Lid open / close detector	
	Overheat / Overcool detector	Rotor identification system	
Convenient Functions	Last run memory	Power saving (ECO) mode	
	Soft Brake function	PRE-TEMP function	
	FLASH (Short spin) function	Annual inspection indicator	
	Memory function (six sets of operating parameters)		
	Heat exchanger overheat detector	Calendar date & time display	
Refrigerant	HFC R134a (260g)		
Power Requirements	1-Phase AC120V 60Hz 15A 1-Phase AC220-240V 50/60Hz 10A		
Dimensions	341 W × 491 D × 823 H (Lid in open position : 1138 H, table height : 787 H)		
Net Weight	62 kg		
Accessories Included	• Operator's manual x 1 copy • Drain plug x 1 piece	• Rotor fixing knob x 1 piece • Power cord x 1 piece	• Caster holder x 2 pieces • Hexagon wrench x 1 piece

\* Specifications and design are subject to change for improvement without prior notice.  
Ask for the latest specifications prior to your order and procurement.

### Features for MDX-310

- Spin-able up to 2ml x 72 tubes
- 50ml / 15ml x 4 conical tubes
- 14,000rpm with 96 well PCR plate x 2

### Features for MDX series

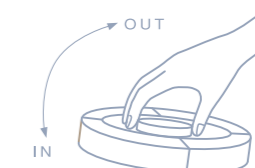
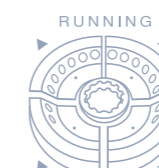
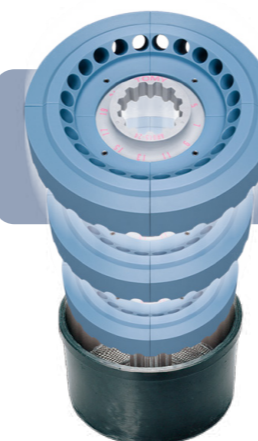
- Max. speed 15,000rpm
- Rack-in Rotor system
- Touchscreen with color LED display
- Jog Dial with enter key
- Numeric keypad
- Flash (momentary) spins
- Memory function
- PRE-TEMP function
- Annual voluntary inspection reminder
- Dusting indicator
- ECO mode
- Date format selectable

# MDX MDX-310 MDX-210 MDX-110

## HIGH SPEED REFRIGERATED CENTRIFUGES



## Rack-in-Rotor system



Sales Office:

**TOMY DIGITAL BIOLOGY CO., LTD.**

3-14-17 Tagara, Nerima-ku, Tokyo 179-0073, Japan  
e-mail: info@digital-biology.co.jp  
URL: <http://www.digital-biology.co.jp/manufactured/>  
phone: +81-3-5971-8160 fax: +81-3-3970-6036

**TOMY SEIKO CO., LTD.**

Manufacturer:

**TOMY KOGYO CO., LTD.**

3-14-17 Tagara, Nerima-ku, Tokyo 179-0073, Japan  
All TOMY products have a limited one-year warranty.  
Specifications are subject to change according to product advancement.  
Tomy and Digital Biology is registered trademark of Tomy Seiko Co., Ltd. and Tomy Digital Biology Co., Ltd. Copyright 2019, Tomy Seiko and its subsidiaries. Printed in Japan.

3K12019③R

HIGH SPEED REFRIGERATED CENTRIFUGES

# MDX series

## MDX-310

**Flagship Model**



2ml tubes×72  
50ml/15ml conical tubes×4  
96well PCR plate×2

Compatible rotor: CA-300



Stack up to 3 racks.

## MDX-210



2ml tubes×48  
5ml tubes×12

Compatible rotor: CA-200



Stack up to 2 racks.

## MDX-110



2ml tubes×24  
8strips PCR×2

Compatible rotor: CA-100



Load 1 rack only. No-stackable.

# Rack-in-Rotor System



### Rack for CA-300

50or14ml × 4 tubes 15,000rpm 20,130G <b>AR501-04</b> *1	15ml × 8 tubes Conical 15,000rpm 20,380G <b>AR150-08</b>	50or15ml × 4 tubes Conical 15,000rpm 20,380G <b>AR510-04</b> *1	96 well PCR plate × 2 14,000rpm 10,740G~15,340G <b>PCR96-02</b> *2 Adapter <b>A96-01PC</b>
--	--	---	---

### Rack for CA-300/200/100

2ml × 24 tubes 15,000rpm 20,380G <b>AR015-24</b>	<b>Rotor CA-300 for MDX-310</b> ×1	2ml × 24 tubes Spin column 15,000rpm 20,380G <b>AR015-SC24</b>	5ml × 12 tubes Conical 15,000rpm 20,130G <b>AR050-12</b> *3	
0.5ml × 24 tubes 15,000rpm 19,880G <b>AR005-24</b>		<b>Rotor CA-200 for MDX-210</b> ×2	14ml × 8 tubes 15,000rpm 20,380G <b>AR141-08</b>	30ml × 6 tubes 15,000rpm 20,380G <b>AR300-06</b>
PCR 8-wells tube x 8 lines 15,000rpm Outer:18,120G Inner:16,350G <b>AR002-64</b>			<b>Rotor CA-100 for MDX-110</b> ×1	

### Fixed Angle Rotors for MDX-310 only

2ml×18 tubes 15,000rpm 17,860G <b>CA-1</b>	2ml×24 tubes 13,500rpm 17,730G <b>CA-10</b>	2ml×18 tubes 15,000rpm 0.5ml×12 tubes / 0.2 ml×12 tubes 19,120G(2ml) <b>CA-15</b>	2ml×24 tubes 15,000rpm 21,130G <b>CA-5</b>	2ml×36 tubes 15,000rpm 21,130G (Outer line) <b>CA-6</b>	5ml×12 tubes 15,000rpm 20,630G <b>CA-12</b>	50ml or 15ml 4 tubes Conical 15,000rpm 21,890G <b>CA-17</b>
---	--	---	---	--	--	---

## Intuitive Operation Panel with Touchscreen



● Operation panel changes during the operation for easy monitoring.

● Numeric keypad available  
● 6 memory functions for quick and easy settings

## User Friendly and Safety Features

- Simplified data entry with Jog Dial
- Flash (momentary) spins
- Annual voluntary inspection reminder
- Dusting indicator
- Advanced ECO-MODE

## Comparison of power consumption between previous model and MDX-310

