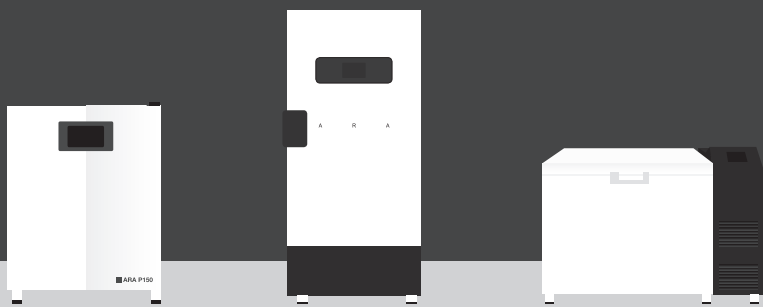


**A bold new statement for your laboratory.**



## **P series / M series**

CO<sub>2</sub> Incubator / Deep Freezers

# **ARA**

**PREPARE / CULTURE / PRESERVE**

**im-ara.com**



## CO<sub>2</sub> Incubator

# P series

- Direct heating, air jacketed CO<sub>2</sub> incubator
- Internal max. capacity 150 L
- No fan, no vibration, no maintenance of HEPA filter, no spread-out of contamination
- Maximized inner space by no fan structure



M/MD model

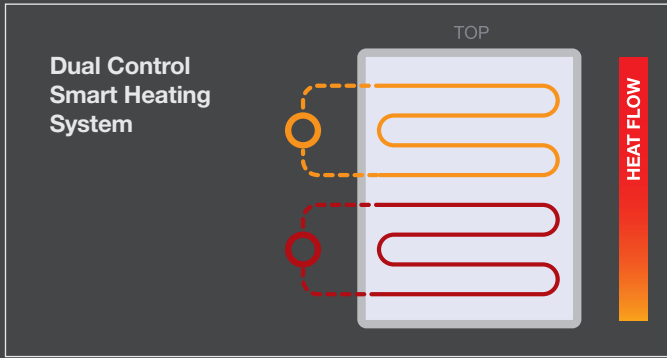
## Deep Freezers

# M series

- Fast pull-down and recovery to optimal storage temperature
- Automatic door for safety lock and easy unlock (Manual type is optionally available)
- Independent dual compressor system with no oil separator and expansion tank
- Unique pin-less block condenser with no filter structure



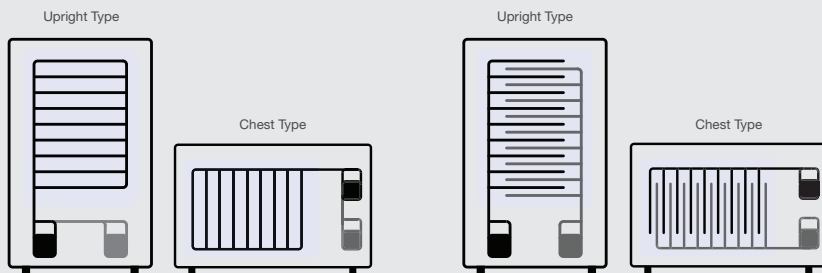
MC/MCD model



- Easy to clean interior and big water pan
- Intuitive 7" control screen and informative display
- Optional two or three divided inner doors
- Touchscreen with graphic display
- USB port

- Dual controller construction for failure-free operation
- Exclusive recipe, CFC-free mixed refrigerants
- Controllable ECO mode of dual compressor model for energy saving operation
- Informative 7" display and control screen
- Chart recorder and LCO<sub>2</sub> back-up system available

### Independent Dual Compressor System



#### Others

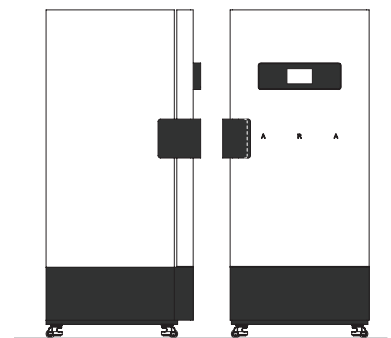
Typical dual compressor system where the compressors are dependent to each other, making the system unable to maintain its temperature when one compressor fail.

#### M Series

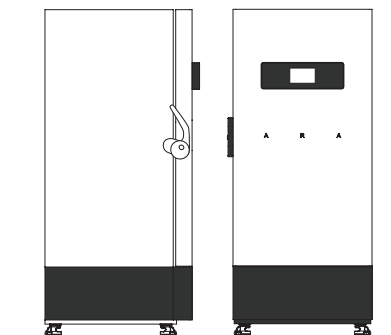
The true independent dual compressor system works as two separate cooling systems which can fully function independently even when one compressor fail.

### Robust and Flexible Design of Door Handle

#### Automatic Door



#### Manual Door



## Technical Specifications of P series

Inner capacity	150 L	Temperature control	Heating method	Direct heating by 6 separate heaters	
External dimension (W x D x H, mm)	657 x 741 x 877		Control system	Microprocessor PID	
Net weight, kg	62 kg		Control range	Amb. +5/50°C	
Shelves	Shelves		3 standard 6 maximum	Accuracy /Uniformity	±0.2°C / ±0.3°C
	Area dimension		425 x 466 mm	Recovery rate	< 10 min
	Material		SUS	Control system	Microprocessor PID
Door left/right	Factory installed		CO <sub>2</sub> control	Sensor (T.C./I.R.)	Dual IR
Fan	No			Control range	0-20%
Decontamination	Hydrogen peroxide, UV (optional)			Control accuracy	±0.1
Display	7" LCD Touchscreen		rH system	Recovery rate	< 7 min
Data tracking	240 hours continuous	Humidity method		Water pan	
		Humidity range, %RH		92~98%	
			Water level alarm	Yes	

## Technical Specifications of M series

Model	ARA M80	ARA M300	ARA MD300	ARA M400	ARA MD400	ARA M500	ARA MD500	ARA M700	ARA MD700	
Capacity	82 Lit.	308 Lit.		393 Lit.		503 Lit.		714 Lit.		
Temperature range	-86°C ~ -65°C	-86°C ~ -65°C	-95°C ~ -65°C	-86°C ~ -65°C	-95°C ~ -65°C	-86°C ~ -65°C	-95°C ~ -65°C	-80°C ~ -65°C	-90°C ~ -65°C	
Compressor	Single	Single	Dual, Independent	Single	Dual, Independent	Single	Dual, Independent	Single	Dual, Independent	
Rack Capacity	4 pcs of 12 (3 x 4) Placed Rack	12 pcs of 15 (3 x 5) Placed Rack		16 pcs of 15 (3 x 5) Placed Rack		16 pcs of 20 (4 x 5) Placed Rack		24 pcs of 20 (4 x 5) Placed Rack		
Dimension (W x D x H, mm)	Internal	340 x 485 x 520		470 x 500 x 1,310		600 x 500 x 1,310		600 x 640 x 1,310		
	External	572 x 730 x 1,147		800 x 792 x 1,990		930 x 792 x 1,990		930 x 932 x 1,990		
Net Weight	102 kg	190 kg	220 kg	220 kg	260 kg	245 kg	284 kg	285 kg	327 kg	
Power Requirement	Dual mode	321 W/h	364 W/h	386 W/h	386 W/h	469 W/h	469 W/h	508 W/h	508 W/h	
	Eco. mode		415 W/h		461 W/h		526 W/h		576 W/h	
Cat. No.	Auto door	-	AMUS300	AMUD300	AMUS400	AMUD400	AMUS500	AMUD500	AMUS700	AMUD700
	Manual door	AMUS080-M	AMUS300-M	AMUD300-M	AMUS400-M	AMUD400-M	AMUS500-M	AMUD500-M	AMUS700-M	AMUD700-M

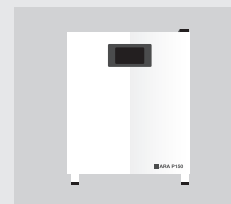
Model	ARA MC350	ARA MCD350	ARA MC500	ARA MCD500	ARA MC600	ARA MCD600	
Capacity	350 Lit.		500 Lit.		600 Lit.		
Temperature range	-86°C ~ -65°C	-95°C ~ -65°C	-86°C ~ -65°C	-95°C ~ -65°C	-86°C ~ -65°C	-95°C ~ -65°C	
Compressor	Single	Dual, Independent	Single	Dual, Independent	Single	Dual, Independent	
Rack Capacity	21 pcs of 11 (1 x 11)-placed Rack		30 pcs of 11 (1 x 11)-placed Rack		36 pcs of 11 (1 x 11)-placed Rack		
Dimension (W x D x H, mm)	Internal	1,050 x 470 x 670		1,500 x 470 x 670		1,800 x 470 x 670	
	External	1,690 x 776 x 1,150		2,140 x 776 x 1,150		2,440 x 776 x 1,150	
Net Weight	190 kg	230 kg	220 kg	270 kg	250 kg	310 kg	
Power Requirement	Dual mode	364 W/h	364 W/h	386 W/h	386 W/h	469 W/h	
	Eco. mode		415 W/h		461 W/h		526 W/h
Cat. No.	AMCS350	AMCD350	AMCS500	AMCD500	AMCS600	AMCD600	

## Ordering Information

### P series

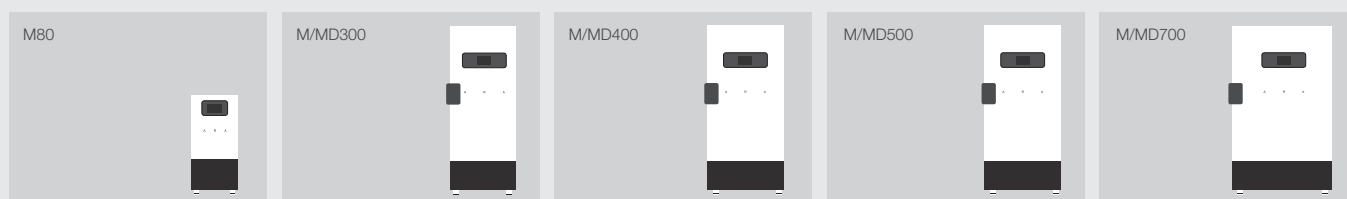
CO<sub>2</sub> Incubator

Cat. No.	Product
<b>APL150</b>	ARA P150 CO <sub>2</sub> Incubator with Single Glass Door, Left-Open
<b>APR150</b>	ARA P150 CO <sub>2</sub> Incubator with Single Glass Door, Right-Open
<b>APA-SPS</b>	Shelf with 2 supports, perforated, SS
<b>APA-CGS</b>	CO <sub>2</sub> gas pressure regulator

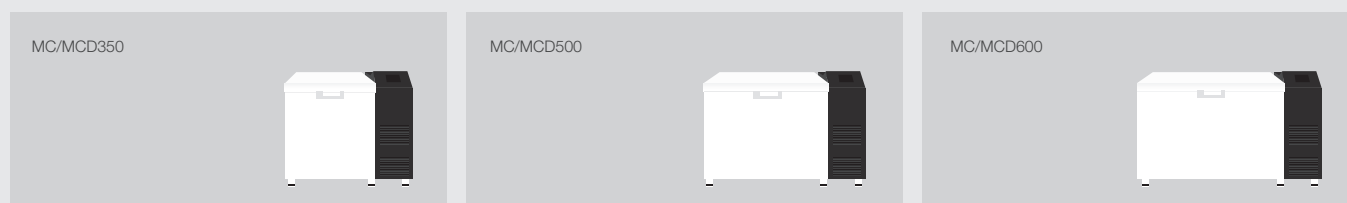


### M series

Deep Freezers



Cat. No.	Product
<b>AMUS080-M</b>	ARA M80, 82 liter upright deep freezer with manual door, single compressor
<b>AMUS300</b>	ARA M300, 308 liter upright deep freezer with auto door, single compressor
<b>AMUS300-M</b>	ARA M300, 308 liter upright deep freezer with manual door, single compressor
<b>AMUD300</b>	ARA M300, 308 liter upright deep freezer with auto door, independent dual compressor
<b>AMUD300-M</b>	ARA M300, 308 liter upright deep freezer with manual door, independent dual compressor
<b>AMUS400</b>	ARA M400, 393 liter upright deep freezer with auto door, single compressor
<b>AMUS400-M</b>	ARA M400, 393 liter upright deep freezer with manual door, single compressor
<b>AMUD400</b>	ARA M400, 393 liter upright deep freezer with auto door, independent dual compressor
<b>AMUD400-M</b>	ARA M400, 393 liter upright deep freezer with manual door, independent dual compressor
<b>AMUS500</b>	ARA M500, 503 liter upright deep freezer with auto door, single compressor
<b>AMUS500-M</b>	ARA M500, 503 liter upright deep freezer with manual door, single compressor
<b>AMUD500</b>	ARA M500, 503 liter upright deep freezer with auto door, independent dual compressor
<b>AMUD500-M</b>	ARA M500, 503 liter upright deep freezer with manual door, independent dual compressor
<b>AMUS700</b>	ARA M700, 714 liter upright deep freezer with auto door, single compressor
<b>AMUS700-M</b>	ARA M700, 714 liter upright deep freezer with manual door, single compressor
<b>AMUD700</b>	ARA M700, 714 liter upright deep freezer with auto door, independent dual compressor
<b>AMUD700-M</b>	ARA M700, 714 liter upright deep freezer with manual door, independent dual compressor



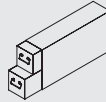

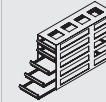
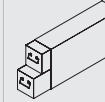

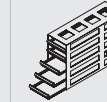
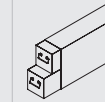


Cat. No.	Product
<b>AMCS350</b>	ARA MC350, 350 liter chest type deep freezer with single compressor
<b>AMCD350</b>	ARA MC350, 350 liter chest type deep freezer with independent dual compressor
<b>AMCS500</b>	ARA MC500, 500 liter chest type deep freezer with single compressor
<b>AMCD500</b>	ARA MC500, 500 liter chest type deep freezer with independent dual compressor
<b>AMCS600</b>	ARA MC600, 600 liter chest type deep freezer with single compressor
<b>AMCD600</b>	ARA MC600, 600 liter chest type deep freezer with independent dual compressor


## Ordering Information

### Stainless Steel Rack for M Series

for Upright Type Freezer

Applicable Freezer	ARA M80			ARA M(D)300/400			ARA M(D)500/700		
Rack type	 Open Rack	 Tray Drawer	 Box Drawer	 Open Rack	 Tray Drawer	 Box Drawer	 Open Rack	 Tray Drawer	 Box Drawer
Dimension (W x D x H, mm)	140 x 430 x 220		140 x 410 x 220	140 x 430 x 290		140 x 425 x 290	140 x 570 x 290		
Quantity of Available Boxes	12 ea (3 x 4)			15 ea (3 x 5)		12 ea (3 x 4)	20 ea (4 x 5)		16 ea (4 x 4)
Cat. No.	<b>AMA-ORS</b>	<b>AMA-TDS</b>	<b>AMA-BDS</b>	<b>AMA-ORM</b>	<b>AMA-TDM</b>	<b>AMA-BDM</b>	<b>AMA-ORL</b>	<b>AMA-TDL</b>	<b>AMA-BDL</b>

for Chest Type Freezer

Applicable Freezer	ARA MC(D)350 / MC(D)500 / MC(D)600	
Rack type	 Open Rack	
Dimension (W x D x H, mm)	140 x 140 x 385	140 x 140 x 655
Quantity of Available Boxes	7 ea (1 x 7)	11 ea (1 x 11)
Material	Stainless Steel	
Cat. No.	<b>AMA-SAS</b>	<b>AMA-SAM</b>



### Freezer Box and Optional Accessories for M Series

Cat. No.	Description
<b>AMA-B001</b>	Freezer box, Paper, with Dividers for 9 x 9 holes, w127 x d127 x h52 mm
<b>AMA-B002</b>	Freezer box, PP, with Dividers for 9 x 9 holes, w127 x d127 x h52 mm
<b>AMA-TR622</b>	Temperature Chart Recorder
<b>AMA-CP657</b>	Chart Paper, 60 Charts per one box for 420 days recording in AMA-TR622
<b>AMA-P222</b>	Chart Recorder Replacement Pens, 6ea Red color, for AMA-TR622
<b>AMA-RAS</b>	Remote Wire/Wireless Alarm System
<b>AMA-LCO</b>	LCO <sub>2</sub> Backup System



# ARA

PREPARE / CULTURE / PRESERVE  
im-ara.com

