

A R A



DEEP FREEZERS

Upright Type Deep Freezer

ARA M/MD Series



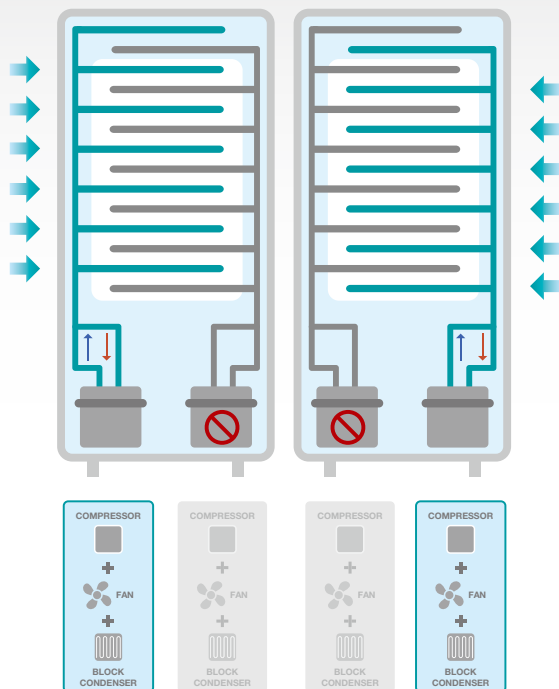
Features

- Fast pull-down and recovery to optimal storage temperature
- Automatic door for safety lock and easy unlock (Manual type is optionally available.)
- Automatic vacuum release structure for fast lock and unlock
- Independent dual compressor system with no oil separator and expansion tank
- Unique SMART freezing system with pin-less block condenser
- Exclusive recipe, CFC-free refrigerant
- Three internal temperature sensors for failure free temp-monitoring
- Dual controller construction for failure-free operation
- Controllable ECO mode for energy saving operation (For dual compressor model)
- Informative 7" display and control screen with history tracking
- Easy data transportation through USB port
- Alarm function for abnormal temperature and compressor, door open status, improper voltage, battery shortage, power failure, etc.
- Optionally attachable external remote alarm system
- Optionally available chart recorder and LCO₂ back-up system

Technical Specification

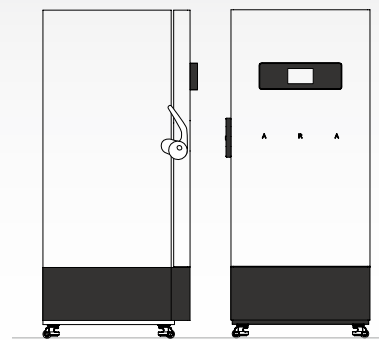
Capacity		82, 308, 393, 503, or 714 Lit.
Temperature range		-86°C/-80°C ~ -65°C or -95°C/-90°C ~ -65°C
Compressor		Hermetic type Single or independent dual compressor (Eco mode of dual type for economic operation)
Condenser type		Block condenser, no pin, filter free mechanism
Refrigerant		Natural (CFC free refrigerant system)
Controller & Display		Failure free dual controller and 7" touchscreen TFT LCD
Door		Door opening and closing by pressing a touch button on control screen (optional - manual door)
Material	Internal	Stainless steel
	External	Powder coated steel plate
Power supply		Single phase, AC 230 V, 50/60 Hz (optional AC 120 V, 60 Hz)

Independent Dual Compressor System

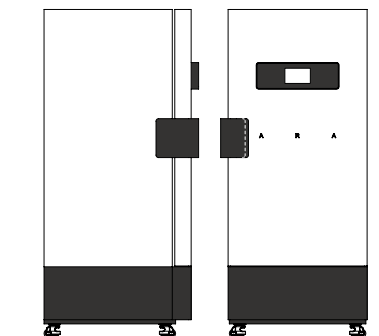


SMART Freezing System with Block Condenser

Robust and Flexible Design of Door Handle



Manual Door



Automatic Door

Chest Type Deep Freezers

ARA MC/MCD Series

Features

- Much safer and energy-saving deep freezer for not losing cooled status by door opening
- All features are the same with upright type deep freezer except the automatic door
- Installed with easy to move and heavy duty casters (4-6 casters)



Technical Specification

Capacity	350, 500 or 600 Lit.	
Temperature range	-86°C ~ -65°C or -95°C ~ -65°C	
Compressor	Hermetic type, Single or independent dual compressor (Eco mode of dual type for economic operation)	
Condenser type	Block condenser, no pin, filter free mechanism	
Refrigerant	Natural (CFC free refrigerant system)	
Controller & Display	Failure free dual controller and 7" touchscreen TFT LCD	
Material	Internal	Stainless steel
	External	Powder coated steel plate
Power supply	Single phase, AC 230 V, 50/60 Hz (optional AC 120 V, 60 Hz)	

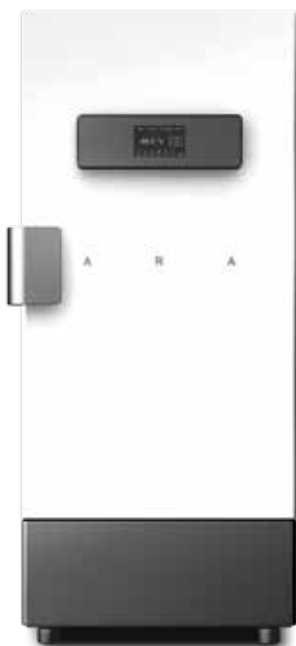
Ordering Information

Upright Type Deep Freezers

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

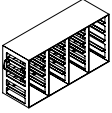
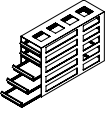
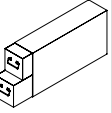
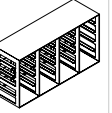
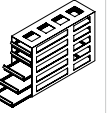
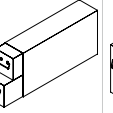
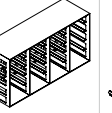
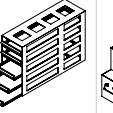
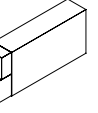
Chest Type Deep Freezers

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 & 3 pcs of 7 (1 x 7)-placed Rack		30 pcs of 11 (1 x 11)-placed Rack & 3 pcs of 7 (1 x 7)-placed Rack		36 pcs of 11 (1 x 11)-placed Rack & 3 pcs of 7 (1 x 7)-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	469 W/h
	Eco. mode		415 W/h		461 W/h		526 W/h
Cat. No.	Manual door	AMCS350	AMCD350	AMCS500	AMCD500	AMCS600	AMCD600



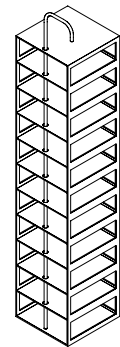
Ordering Information

Stainless Steel Rack 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)		
Material	Stainless Steel														
Cat. No.	AMA-ORS	AMA-TDS	AMA-BDS	AMA-ORM	AMA-TDM	AMA-BDM	AMA-ORL	AMA-TDL	AMA-BDL						

Stainless Steel Rack 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.	AMA-SAS	AMA-SAM



Open Rack for Chest Type



Freezer Box

Cat. No.	Product
AMA-B001	Freezer box, Paper, with dividers for 9 x 9 holes, 127(w) x 127(d) x 52(h) mm
AMA-B002	Freezer box, PP, with dividers for 9 x 9 holes, 127(w) x 127(d) x 52(h) mm

Others

Cat. No.	Product
AMA-TR622	Temperature chart recorder
AMA-CP657	Chart paper, 60 charts per one box for 420 days recording in AMA-TR622
AMA-P222	Chart recorder replacement pens, 6 ea red color, for AMA-TR622
AMA-RAS	Remote wire/wireless alarm system
AMA-LCO	LCO ₂ backup system