

## Deep Freezers

Classic Chest Type - ARA MCC Series

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### Classic Chest Type Deep Freezers

# ARA MCC Series

- Much safer and energy-saving deep freezer for not losing cooled status by door opening
- Simple display of temperature monitoring
- Minimalized efficient inner structure with aluminum plate
- No casters equipped for economic installation



### Technical Specifications

	Classic Chest Type Deep Freezer
Capacity	136, 237, 314, 375, or 438 Lit.
Temperature range	-86°C ~ -65°C
Compressor	Hermetic Type , Single Compressor
Condenser Type	Block Condenser, No pin, Filter Free Mechanism
Refrigerant	Natural (CFC Free Refrigerant System)
Controller & Display	Digital Feedback Controller
Material	Internal Aluminum Plate / External Steel plate with Acrylic Acid Resin Coating
Power supply	Single Phase, AC 230V, 50/60Hz (Optional AC 120V, 60Hz)

### Ordering Information

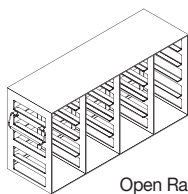
		ARA MCC130	ARA MCC230	ARA MCC310	ARA MCC370	ARA MCC430
Capacity		136 Lit.	237 Lit.	314 Lit.	375 Lit.	438 Lit.
Temperature Range		-86°C ~ -65°C				
Compressor		Single				
Rack Capacity		6 pcs of 11 (1 x 11) & 3 pcs of 7 (1 x 7) -placed Rack	12 pcs of 11 (1 x 11) & 3 pcs of 7 (1 x 7) -placed Rack	18 pcs of 11 (1 x 11) & 3 pcs of 7 (1 x 7) -placed Rack	21 pcs of 11 (1 x 11) & 3 pcs of 7 (1 x 7) -placed Rack	27 pcs of 11 (1 x 11) & 3 pcs of 7 (1 x 7) -placed Rack
Chamber Dimension (W x D x H, mm)	Internal	520 x 450 x 680	850 x 450 x 680	1,100 x 450 x 680	1,300 x 450 x 680	1,500 x 450 x 680
	External	720 x 730 x 860	1,050 x 730 x 860	1,300 x 730 x 860	1,500 x 730 x 860	1,700 x 730 x 860
Net Weight		45 kg	55 kg	67 kg	73 kg	82 kg
Power Requirement		300W	400W	450W	500W	550W
Cat. No.		AMCS130	AMCS230	AMCS310	AMCS370	AMCS430

## Accessories

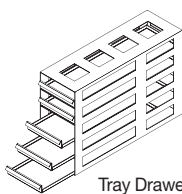
### Rack System for Freezer

#### Stainless Steel Rack for Upright Type Freezer

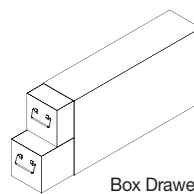
Rack Type	Small Size Rack			Medium Size Rack			Large Size Rack		
	Open Rack	Tray Drawer	Box Drawer	Open Rack	Tray Drawer	Box Drawer	Open Rack	Tray Drawer	Box Drawer
Dimension (W x D x H, mm)	140 x 430 x 220		140 x 410 x 220	140 x 430 x 290		140 x 425 x 290	140 x 570 x 290		
Applicable Freezer	ARA M80			ARA M(D)300/400			ARA M(D)500/700		
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



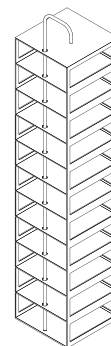
Open Rack



Tray Drawer



Box Drawer



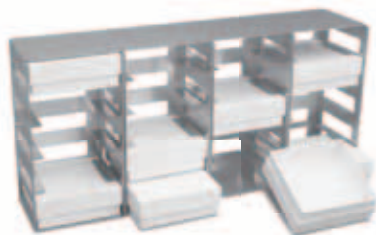
Open Rack  
for (Classic) Chest Type

#### Stainless Steel Rack for Chest Type Freezer

Rack Type	Open Rack	
Dimension (W x D x H, mm)	140 x 140 x 385	140 x 140 x 655
Applicable Freezer	ARA MC(D)350 / MC(D)500 / MC(D)600 ARA MCC130 / ARA MCC230 / ARA MCC310 / ARA MCC370 / ARA MCC430	
Quantity of Available Boxes	7 ea (1 x 7)	11 ea (1 x 11)
Material	Stainless Steel	
Cat. No.	AMA-SAS	AMA-SAM

#### Freezer Box

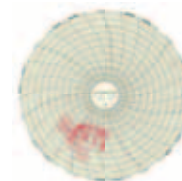
Cat. No.	Description
AMA-B001	Freezer box, Paper with dividers for 9 x 9 holes, 127 (W) x 127 (D) x 52 (H) mm
AMA-B002	Freezer box, PP with dividers for 9 x 9 holes, 127 (W) x 127 (D) x 52 (H) mm



## Optional Common Accessories

### Temperature Chart Recorder

- Continuously monitor and record freezer temperature  
- Easy to check the operation of the equipment
- 1 chart records 7days (included 60 charts)
- Recorder records temperatures from -100°C to 0°C
- Min/Max Temperature can be checked on digital display



### Remote Alarm System

- Remote warnings for overtemperature (above -65°C)
- Alarm system is connected to the regulator and activates when the temperature rises
- Alarm is sent via phone or text
- Multiple phone numbers can be registered to receive alarm at the same time



NO COM NC



-12VDC+



### LCO<sub>2</sub> Backup System (LCO<sub>2</sub> Gas Tank is optional)

- Protect samples of the freezer in case of power failure
- Liquid Carbon Dioxide(freezing point is -78°C) is injected into the chamber to keep the internal temperature below -65°C
- The operating time depends on the gas tank capacity.



## Ordering Information

Cat. No.	Description
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, 6ea Red color, for AMA-TR622
AMA-RAS	Remote Wire/Wireless Alarm System
AMA-LCO	LCO <sub>2</sub> Backup System