

- Excellent stability at all operating temperatures
- Reliable compressors - Long life and Low maintenance
- Patented, PULL 'N' PUSH™ handle & Locking mechanism
- CFC-free & HCFC-free refrigeration system
- Proprietary Insulation
- Low noise
- Back up systems
- Monitoring systems
- Inventory and storage systems
- Key Pad Microprocessor Controllers
- Stainless steel cabinet interior



The future has a name



	PRIME Series		MERIT Series		Voltage	Capacity
	-86°C	-40°C	-86°C	-40°C		
	Model No.		Model No.			
UPRIGHT	GV039P	GA039P	GV039M	GA039M	115V/60Hz	390 L / 13.7 ft ³
	AV039P	AA039P	AV039M	AA039M	220~240V/50Hz	
	DV039P	DA039P	DV039M	DA039M	208~230V/60Hz	
	GV050P	GA050P	GV050M	GA050M	115V/60Hz	499 L / 17.6 ft ³
	AV050P	AA050P	AV050M	AA050M	220~240V/50Hz	
	DV050P	DA050P	DV050M	DA050M	208~230V/60Hz	
	GV061P	GA061P	GV061M	GA061M	115V/60Hz	616 L / 21.7 ft ³
	AV061P	AA061P	AV061M	AA061M	220~240V/50Hz	
	DV061P	DA061P	DV061M	DA061M	208~230V/60Hz	
GV073P	GA073P	GV073M	GA073M	115V/60Hz	732 L / 25.8 ft ³	
AV073P	AA073P	AV073M	AA073M	220~240V/50Hz		
DV073P	DA073P	DV073M	DA073M	208~230V/60Hz		
CHEST	GH022P	GB022P	GH022M	GB022M	115V/60Hz	220 L / 7.8 ft ³
	AH022P	AB022P	AH022M	AB022M	220~240V/50Hz	
	DH022P	DB022P	DH022M	DB022M	208~230V/60Hz	
	GH032P	GB032P	GH032M	GB032M	115V/60Hz	320 L / 11.3 ft ³
	AH032P	AB032P	AH032M	AB032M	220~240V/50Hz	
	DH032P	DB032P	DH032M	DB032M	208~230V/60Hz	
	GH043P	GB043P	GH043M	GB043M	115V/60Hz	430 L / 15.2 ft ³
	AH043P	AB043P	AH043M	AB043M	220~240V/50Hz	
	DH043P	DB043P	DH043M	DB043M	208~230V/60Hz	
	GH053P	GB053P	GH053M	GB053M	115V/60Hz	530 L / 18.7 ft ³
	AH053P	AB053P	AH053M	AB053M	220~240V/50Hz	
	DH053P	DB053P	DH053M	DB053M	208~230V/60Hz	



Kaltis® laboratory equipment is renowned for its quality construction, low noise and long term reliability.

Kaltis® freezers provide reliable, dependable performance under all laboratory conditions. Our ultra low temperature freezers have a long history record of proven performance.

Kaltis® low and ultra low freezers are designed for the long-term storage of biological materials, blood components and pharmaceuticals, covering a wide range of applications.

Kaltis® freezers utilize the latest refrigeration technology and have been developed to increase reliability, stability, dependability and to reduce energy consumption.

Refrigeration System

- Custom designed cascade refrigeration system with two, 1HP air-cooled compressors
- CFC-free & HCFC-free refrigerants
- Large condenser & Down flow evaporator

Electrical System

- Automatic voltage compensation with solid state relay driver
- Built-in Surge suppressor, Circuit breaker, Power supply and compressor protection. Auto Delay Restart (ADR)

Control System

- Key pad Microprocessor alarm & control system
- Password security system for main power, temperature & alarm setting
- Temperature increment / decrement in steps of 1°C

Monitoring System

- A variety of optional, RS232-based, monitoring systems are available, including a real time clock and a complete alarm event history
- Visual indicators for filter condition, low back up battery power and other functions

Alarm System

- Back up battery provided for continuous system power
- Exterior alarm contacts for remote monitoring systems
- Key pad, Intelligent self-diagnostic system controller. Audio & visual warning of temperature deviation, power failure, low battery, door open

Cabinet Construction

- Proprietary closed-cell, high density
- CFC-free & HCFC-free urethane insulation
- Dual wheel, heavy-duty swivel castors

Optional Accessories

- Inventory storage systems, including racks & boxes
- Alarm and monitoring systems
- Backup Systems

		COMPARATIVE CHART				Feature
		PRIME		MERIT		
Operating Temperature		-86 °C	-40 °C	-86 °C	-40 °C	
REFRIGERATION SYSTEM	Single refrigeration system					High efficiency
	Cascade system	•		•		Stable, reliable
	Industrial-grade compressors	•	•	•	•	High efficiency, energy saving
	CFC-free & HCFC-free refrigerant	•	•	•	•	Environmentally friendly
	High cascade refrigerant	•	•	•	•	HFC series
	Low cascade refrigerant	•		•		HFC series
	Down feed evaporator	•	•	•	•	Smooth refrigerant flow
	Washable condenser filter	•	•	•	•	Ensures optimum cooling
Enhanced condenser	•	•	•	•	Optimum cooling	
CONTROLLER	Microprocessor	•	•	•	•	Accurate control
	Password protection	•	•	•	•	Start-up and setting security
	Independent high/low alarm	•	•	•	•	Simple to test
POWER SUPPLY	Circuit breaker	•	•	•	•	Protects power supply circuit
	Automatic voltage regulator	•	•	•	•	Provides stable voltage
	Surge protection	•	•	•	•	Protects control system
	Digital voltage monitoring	•	•			Monitors post-regulator voltage
	Digital current monitoring	•	•			Monitors current in real time
	Solid state relay	•	•	•	•	Extends controller life
	Automatic restart delay	•	•	•	•	Ensures power quality
ALARM SYSTEM	Intelligent self-diagnostics	•	•	•	•	Automatically confirms alarm event
	Icon display	•	•			Visual display
	Alarm codes	•	•	•	•	Directly displays alarm status
	Audio alarm	•	•	•	•	Temperature or power failure
	Alarm backup battery	•	•	•	•	For monitoring of alarm system
	Alarm test	•	•	•	•	Test alarm function
	RS232/RS485 communication port	•	•	•	•	Software for PC, data logging, specified with order
Remote alarm contact	•	•	•	•	Additional protection of alarm contact	
MONITORING SYSTEM	Chamber temperature	•	•	•	•	Independent high/low alarm
	Door open	•	•	•	•	Sounds when door is open
	Compressor protection	•	•			Self adjusting, extending compressor life
	High ambient temperature	•	•			High ambient temperature conditions
	Low condensation	•	•	•	•	Auto dial alarm (optional)
	Filter condition	•	•			Advises when filter requires replacement
	Power failure	•	•	•	•	Alarm sounds on power failure
	Voltage fluctuations/supply monitoring	•	•			Monitors post-regulator voltage fluctuations
	Circuit breaker	•	•			Circuit protection
CABINET MODELS (ALL MODELS)	Urethane insulation	•	•	•	•	Low K value (thermal conductivity rate)
	RS485 communication port	•	•	•	•	On line monitoring
	Internal rounded corners	•	•	•	•	Easy to clean
	General insulation	•	•	•	•	Reduces noise levels
	Heavy duty castors/Leveling feet	•	•	•	•	Facilitates moving and leveling
UPRIGHT MODELS	Eye level controller	•	•	•	•	User friendly, easy to read
	Low profile design	•	•	•	•	Only 196 cm(77.2") tall
	Three adjustable shelves and four or five inner doors	•	•	•	•	Maximizes internal space
	Pull 'N' Push latch and handle Independent, insulated inner doors	•	•	•	•	Easy to use
CHEST MODELS	Low profile design	•	•	•	•	Easy access to inventory
	Counter-balanced hinges	•	•	•	•	Easy to open
	Insulated interior lids	•	•	•	•	Greater sample protection

Specifications subject to change without notice.

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