

Panasonic

Life Science
LIFE SCIENCE



GENERAL PURPOSE LABORATORY REFRIGERATORS AND FREEZERS

proto⁰Cool™

Models: GPR-22-1 | GPR-50-2 | GPR-72-3
GPF-24-1 | GPF-47-2

Versatile 4°C and -20°C
preservation for laboratory
research and life science materials.

www.panasonic-healthcare.com/us/biomedical

Discovery powered by
precision™

proto^oCool™

GENERAL PURPOSE LABORATORY REFRIGERATORS & FREEZERS



Proto^oCool™ General Purpose Laboratory Refrigerators

2°C to 8°C Refrigerators

GPR-22-1 | GPR-50-2 | GPR-72-3

Energy efficient design with user friendly construction for easier day-to-day use.

Proto^oCool™ general purpose laboratory refrigerators are used for storage of life science research materials such as cell culture media, agar plates, PCR materials, DNA, and other research reagents.



Proto^oCool™ General Purpose Laboratory Freezers

-20°C Freezers

GPF-24-1 | GPF-47-2

Durable construction with energy efficient design, intended for versatile storage of scientific products.

Proto^oCool™ general purpose laboratory freezers are used for -20°C storage of life science research materials such as enzymes, media components, DNA, and experimental reagents.

GENERAL PURPOSE LABORATORY REFRIGERATOR & FREEZER APPLICATIONS

Models: GPR-22-1 | GPR-50-2 | GPR-72-3 | GPF-24-1 | GPF-47-2



Proto°Cool™ GENERAL PURPOSE LABORATORY PRESERVATION

Scientific Applications

- Storage of buffers, stains, and other non-explosive chemicals
- Preservation of agar plates and media components for improved cell growth and yield
- Maintenance of DNA, antibodies, and the viability of other materials necessary in molecular protocols



GPR-50-2

VERSATILE STORAGE

Units can be used in a large number of general scientific and experimental protocols for life science applications.

OPTIMAL USABILITY

Interior LED lighting and self-closing doors allow for optimal access, inventory tracking, and handling of laboratory materials.

ENERGY EFFICIENT

Constructed with efficient evaporators, condensers, and CFC-free refrigerants that contribute to better freezing efficiency while saving on energy costs.

GENERAL PURPOSE LABORATORY REFRIGERATOR & FREEZER APPLICATIONS

Models: GPR-22-1 | GPR-50-2 | GPR-72-3 | GPF-24-1 | GPF-47-2

Reagent Storage

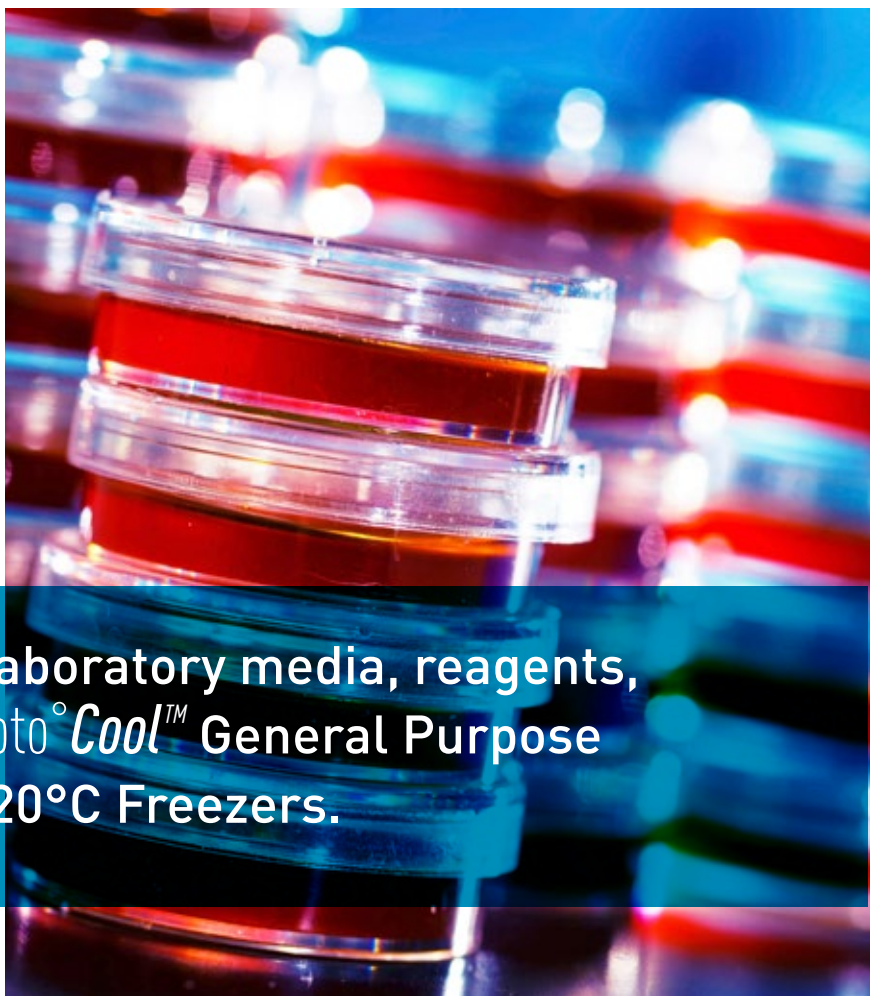
EXPERIMENTAL REAGENTS

Proto[°]Cool™ refrigerators and freezers are well-suited for storage of buffers, stains, and other non-explosive chemicals.

CELL CULTURE MEDIA

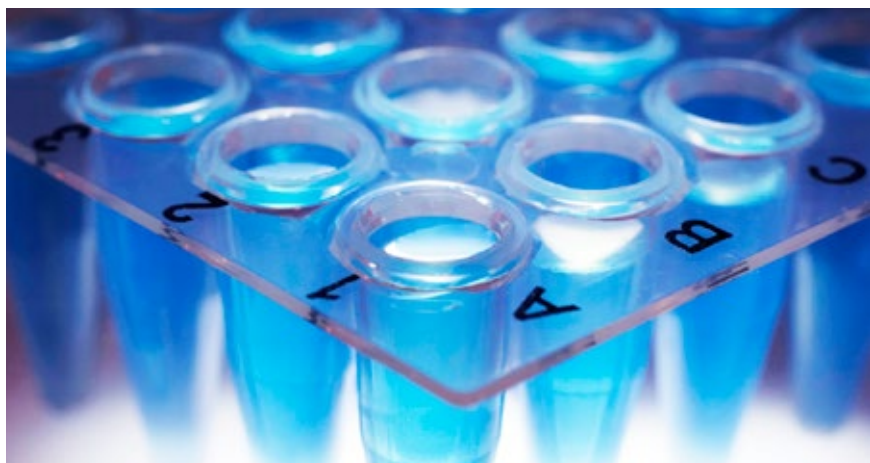
Optimally preserve your agar and media components to ensure better cell growth and yield.

Reliably preserve your laboratory media, reagents, and specimens using Proto[°]Cool™ General Purpose 4°C Refrigerators and -20°C Freezers.



DNA AND ANTIBODIES

Store DNA, enzymes, antibodies, and other materials needed for PCR, Western Blots, Flow Cytometry, and other key molecular biology protocols.



GENERAL PURPOSE LABORATORY REFRIGERATOR TECHNOLOGY

Models: GPR-22-1 | GPR-50-2 | GPR-72-3



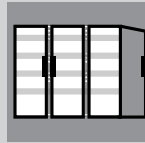
GPR-72-3

EFFICIENT REFRIGERATION SYSTEM



Large evaporators, condensers, and CFC-free refrigerants allow for improved efficiency and faster cooling.

LARGE CAPACITY



Increased capacity provides optimized storage for more materials and reagents, while adjustable shelves offer flexible storage configurations.

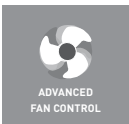
Applicable to GPR-50-2 and GPR-72-3 only.



ERGONOMIC DESIGN

DURABLE CONSTRUCTION

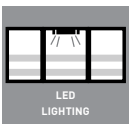
Refrigeration units are built with adjustable, coated wire shelves, and double pane glass doors for equipment longevity and improved efficiency of daily procedures.



ADVANCED FAN CONTROL

ADVANCED FAN CONTROL

A unique fan control system helps conserve energy, reduce stress on the system, and re-stabilize internal temperature following door openings.



LED LIGHTING

INTERIOR LED LIGHTING

Energy efficient LED lighting helps maximize visibility and accessibility of samples.



GPR-72-3 fan system.

GENERAL PURPOSE LABORATORY FREEZER TECHNOLOGY

Models: GPF-24-1 | GPF-47-2



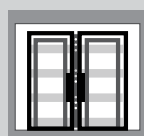
GPF-47-2

STAINLESS STEEL CONSTRUCTION



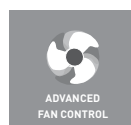
Built to last, Proto[°]Cool[™] freezers have a stainless steel exterior and interior with aluminum inside walls to ensure durability.

SUPERIOR INSULATION



High-density, CFC-free polyurethane insulation in the cabinet and doors promote superior temperature uniformity.

GPF-24-1



ADVANCED FAN CONTROL

ADVANCED FAN CONTROL

The evaporator fan stops when the door is opened to prevent circulation of hot or moist air into the freezer, increasing efficiency and compressor life.



DIGITAL CONTROLS

DIGITAL CONTROLS & VISUAL ALERTS

A digital control system with LED display provides a precise readout of interior temperatures in the freezer. Visual high and low alerts provide awareness of extreme cabinet temperatures.

GENERAL PURPOSE REFRIGERATOR DIMENSIONS

				
MODEL		GPR-22-1	GPR-50-2	GPR-72-3
External dimensions (W x D x H)	inches	28.8 x 27.6 x 80.0	55.8 x 32.0 x 78.5	78.0 x 32.0 x 79.2
External dimensions (W x D x H)	mm	732 x 702 x 2028	1417 x 813 x 1994	1981 x 813 x 2013
Internal dimensions (W x D x H)	inches	24.1 x 23.6 x 62.1	52.8 x 24.5 x 61.3	74.6 x 23.2 x 60.6
Internal dimensions (W x D x H)	mm	613 x 600 x 1580	1341 x 622 x 1556	1895 x 590 x 1539
Volume	cu.ft.	22	50	72
Volume	liters	623	1416	2039
Net Weight	lbs.	225	474	705
Performance				
Temperature Range	°C	2 to 8	2 to 8	2 to 8
Control				
Temperature Controller		Thermostat Dial	Thermostat Dial	Thermostat Dial
Temperature Sensor		Internal Thermometer	Internal Thermometer	Internal Thermometer
Refrigeration				
Cooling Method		Forced Air Fin and Tube	Forced Air Fin and Tube	Forced Air Fin and Tube
Defrost Method		Automatic Defrost	Automatic Defrost	Automatic Defrost
Refrigerant		R-134a	R-134a	R-134a
Insulation		High Density Polyurethane	High Density Polyurethane	High Density Polyurethane
Construction				
Exterior Material		Painted Steel	Painted Steel	Painted Steel
Interior Material		Molded ABS	Molded ABS	Molded ABS
Outer Door (Quantity)		1, Self-closing	2, Self-closing	3, Self-closing
Shelves (W x D)	inches	4 Shelves, 25.5 x 19.3	8 Shelves, 25.3 x 23.3	12 Shelves, 23.5 x 23.75
Casters		Included, not pre-installed	Included, not pre-installed	Included, not pre-installed
Lighting		LED	LED	LED
Electrical				
Electrical Requirements		115 / 60 / 1, NEMA 5-15P Plug	115/60/1, NEMA 5-15P Plug	115 / 60 / 1, NEMA 5-15P Plug
Electrical Certification		ETL, NSF	ETL, NSF	ETL, NSF
Optional Accessories	inches	5" Diameter swivel casters	5" Diameter swivel casters	5" Diameter swivel casters
		Additional PE coated wire shelves	Additional PE coated wire shelves	Additional PE coated wire shelves

GPR-22-1, GPR-50-2, and GPR-72-3 is not suitable for the use in storage of vaccines and other pharmaceutical biologicals.

FREEZER SPECIFICATIONS

GENERAL PURPOSE FREEZER DIMENSIONS				
				
MODEL		GPF-24-1		GPF-47-2
External dimensions (W x D x H)	inches	28.7 x 30.7 x 78.0		51.7 x 30.7 x 78.0
External dimensions (W x D x H)	mm	730 x 780 x 1980		1314 x 780 x 1980
Internal dimensions (W x D x H)	inches	24.8 x 26.6 x 60.6		47.8 x 26.6 x 60.6
Internal dimensions (W x D x H)	mm	629 x 675 x 1539		1213 x 675 x 1539
Volume	cu.ft.	24		47
Volume	liters	680		1331
Net Weight	lbs.	280		435
Performance				
Temperature Range	°C	-17 to -23		-17 to -23
Control				
Temperature Controller		Touch Pad Control		Touch Pad Control
Display		Digital		Digital
Temperature Sensor		Thermometer		Thermometer
Temperature Alerts		Visual		Visual
Refrigeration				
Cooling Method		Forced Air Fin and Tube		Forced Air Fin and Tube
Defrost Method		Automatic Defrost		Automatic Defrost
Refrigerant		R-404A		R-404A
Insulation		High Density Polyurethane		High Density Polyurethane
Construction				
Exterior Material		Stainless Steel		Stainless Steel
Interior Material		Stainless Steel with PE coated wire shelves		Stainless Steel with PE coated wire shelves
Outer Door (Quantity)		1		2
Shelves (W x D)	inches	3 Shelves, 23.5 x 23.75		6 Shelves, 23.5 x 23.1
Door Lock		Standard		Standard
Casters	inches	Standard 4" Swivel		Standard 4" Swivel
Electrical				
Electrical Requirements		115 / 60 / 1, NEMA-5-15P Plug		115 / 60 / 1, NEMA-5-15P Plug
Electrical Certification		ETL, NSF		ETL, NSF
Optional Accessories	inches	5" Diameter swivel casters		5" Diameter swivel casters
	inches	6" Standard legs		6" Standard legs
		Additional PE coated wire shelves		Additional PE coated wire shelves

GPF-24-1 and GPF-47-2 is not ideal for the use in storage of vaccines and other pharmaceutical biologicals.



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