

New Generation of Hi-Efficiency Freezing Systems **UniFreez**™ and **DuoFreez**™





4 Door	5 Door
308 L	308 L
393 L	393 L
503 L	503 L
714 L	714 L





4 Door	5 Door
308 L	308 L
393 L	393 L
503 L	503 L
714 L	714 L





80 L





25 L



UniFreez[™] & **UniFreez**[™]

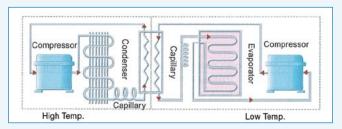
Ultra-Low Temp. Freezers

Innovation of Freezing System DAIHAN UniFreez™ System (Simplified Hi-Efficiency Freezing System)

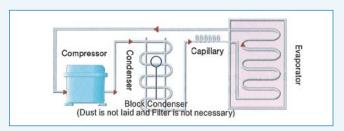
Most Ultra-Low Temperature Freezers have two compressors cooperating with each other to drop internal temperature down to -86°C using complicated freezing mechanisms (as shown below).

The new DAIHAN **UniFreez™** system uses single compressor only. Even though, a single set of a compressor, a capillary tube, a condenser and an evaporator is incorporated, it ensures the temperature down to -86°C by an advanced control technology of the compressor and the process of specially mixed refrigerants. **UniFreez™** overcomes the technical complexity of a typical cascaded double compressor system by simpliying the freezing mechanism and electricity; as a result minimizes failure of operation, noise and power consumption.

Simplified Hi-Efficiency Freezing System Mechanism: Easy Maintenance



Typical cascaded compressor system
Two freezing cycles contribute, complex mechanism

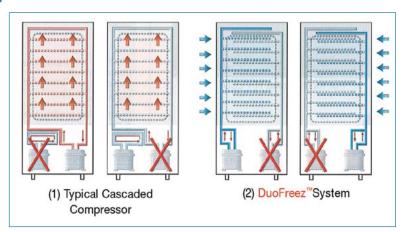


DAIHAN **UniFreez**™ System Efficient single freezing cycle

DuoFreez™ Doubled Security and Robustness

DAIHAN freezers offer an extraordinary high-stability system powered by two **UniFreezTM Systems** operating independently. Normally, both of the two compressors are running, dropping the inside storage chamber temperature down to -95°C. Even if one **UniFreezTM System** fails in operation by an unexpected problem, the other **UniFreezTM System** continues working maintaining ultra-low temperature down to -80°C. It means one **UniFreezTM System** works as a 'backup'of the other **UniFreezTM System**. This innovative mechanism ensures doubled stability, robustness and fault tolerance, which are the most important features of the ULT freezers.

The lowest temperature of -95°C is ensured by DuoFreez™ system running independently and simultaneously.
Fault Tolerance System
Realization of doubled stability and robustness.
Incomparable Fast and Powerful Freezing
Fast Recovery of Target Temperature.



- (1) Complicated mechanism
 If one of compressor fails, temperature would go up.
- (2) Even if one of the two **UniFreez™** systems fails to run, the other one is still running properly = Minimum 80°C.



UniFreez[™] & **UniFreez**[™]



Smart Control & Connectivity

Introducing DAIHAN Smart-Lab™ System

DAIHAN's Freezers offer superior control and connectivity thanks to the integrated Smart Controller and mobile app WiRe™ technologies. The Smart-Lab System DAIHAN WiRe™ is the world first laboratory loT - Internet of Things - system aimed to improve current inadequate laboratory equipment supervison with smart remote controlling and monitoring, users are now able to set up Smart-Lab™ laboratory equipment from anywhere there is internet access.



SmartLab[™] Controller

Full-touch Screen Controller 7-inch Android System Based

The DAIHAN **Smart-Lab**™ Controller is embedded in all **Smart-Lab**™ equipment providing useful functions such as Storage Managment, Data Recording, Self-diagnostic and others. These functions are unique and inovative in modern laboratory equipment. The controller can be connected to a smart phone or tablet through Wi-Fi, scientists are able to monitor their laboratory equipment at any time and from anywhere.



Storage Settings



· Storage Management

The controller allows users to record and name sample locations for each shelf matching up with the freezer racking.

Storage management is a convenient feature that reduces the frequency and duration of the doors being opened. (Feature available on Smart ULT Freezers only).



Settings are customized based on racks configuration. For a list of compatible racks please refer to the optional racks page. Convenient data export into a excel file via USB is also possible.

· User Registration Management

A single unit can be remote controlled and monitored by a system administrator, and also, it can be monitored by multiple users. System allows multiple users registration through a simple set up.

· Temperaturte Chart

Graph settings are customizable. Temperature measurement data is stored in the internal memory by intervals of 10 seconds.

Memory capacity is up to 6 months.

· Data Export USB

Data can be backed up/exported via USB. Program updates are possible through USB port.



Remote Control System WiRe™ App





WiRe[®]

- · Anytime, anywhere and... anyhow, users can monitor and control Smart-Lab™ laboratory equipment using a smart phone/tablet without restraint of time or place.





DuoFreez™





Ultra-Low Temp. Freezer. Smart Digital

-95°C ~ -65°C







Eco MODE

DuoFreez[™] U300

Controlled by Smart-Phone



WiRe[™] App Service allows monitoring and control **SmartLab**™ units through a smart phone or table anytime anywhere.

"SmartLab™ Controller



The **Smart-Lab**™ 7" Full Touch Screen Display allows for easy parameter setting and visual monitoring.

Features

- * **DuoFreez**™ Smart Digital Ultra Low Temperature Freezer, Upright type.
- * The DuoFreeze™ System freezes down to -95°C. Optional High-Stability System: If one of UniFreez™ System fails while operation, the other UniFreez™ System still works while maintaining temperature down to -80°C.
- Self diagnostic function
- * Filter-free mechanism lowers heat generated by the compressor
- * High-quality insulation panel and inner doors ensure defrosting around outer
- * Automatic vacuum breaker, easy to re-open the door
- * Robust door handle design
- * External temperature sensor ready (hole)
- * Eco Mode function for low power consumption
- * Ergonomic 7" Full Touch Screen TFT LCD Smart-Lab™ Controller
- ★ WiReTM App Service
- * Controller placed at the right height for easy monitoring
- * Wi-Fi Internet connectivity. RS232 Communication link
- * Easy maintenance
- Delivered with certificate & traceability

Model		DuoFreez U300 4 & 5 Door	DuoFreez U400 4 & 5 Door	DuoFreez U500 4 & 5 Door	DuoFreez U700 4 & 5 Door
Part Number	4 Door	DH.SWUF01300	DH.SWUF01400	DH.SWUF01500	DH.SWUF01700
Part Number	5 Door	DH.SWUF01350	DH.SWUF01450	DH.SWUF01550	DH.SWUF01750
Capacity		308 L 393 L 503 L 71			714 L
Freezing System	!	DuoFreez™ System			
	Damas		-95°C ~ -65°C		-90°C ~ -65°C
Temp	Range	at Ro	oom Temperature of 3	80°C and Humidity of	70%
	Sensor		PT100	Sensor	
Compressor			Herme	tic Type	
Condenser Type		Blo	ock Condenser, No Pir	n, Filter Free Mechani	sm
Refrigerant			Natural (CFC Free F	Refrigerant System)	
Controller & Disp	olay	7" Fı	ıll Touch Screen TFT L	CD - SmartLab™ Conti	roller
Shelves			3ea (4 Door),	4ea (5 Door)	
Max.	4 Door	12 pcs of 15 (5x3) Placed Rack (RFU4234)	16 pcs of 15 (5x3) Placed Rack (RFU4234)	16pcs of 20 (5x4) Placed Rack (RFU4257)	24pcs of 20 (5x4) Placed Rack (RFU4257)
Qty. of Racks	5 Door	15 pcs of 12 (4x3) Placed Rack (RFU5234)	20 pcs of 12 (4x3) Placed Rack (RFU5234)	20 pcs of 16 (4x4) Placed Rack (RFU5257)	30 pcs of 16 (4x4) Placed Rack (RFU5257)
	Internal		Stainless-S	iteel (#304)	
Material	External		Powder Coat	ed Steel Plate	
	Inner door	Powder Coated	Stainless-Steel (#304) / 312mm (4Door), 25	2 (5Door) Height
Chamber Dim.	Internal	470 x 500 x 1310	600 x 500 x 1310	600 x 640 x 1310	880 x 620 x 1310
(W x D x H) mm	External	710 x 750 x 1900	840 x 750 x 1900	840 x 890 x 1900	1120 x 870 x 1900
Net Weight		220 kg	260 kg	300 kg	320 kg
Packaging Size (W x D x H)	110 x 110 x 222 cm	116 x 116 x 222 cm	116 x 124 x 222 cm	140 x 140 x 221 cm
Gross Weight		300 kg	352 kg	392 kg	442 kg
Power	Dual Mode	398 w/h	474 w/h	507 w/h	596 w/h
Consumption	Eco. Mode	352 w/h	373 w/h	458 w/h	503 w/h
Electrical Requir	ements	1 Phase, AC 230 V, 50 / 60 Hz			







Ultra-Low Temp. Freezer. Smart Digital

-86°C ~ -65°C





UniFreez[™] U300





Control the unit remotely using the WiRe™ App Service from anywhere at anytime.

"SmartLab™ Controller



The **Smart-Lab**™ 7" Full Touch Screen Display allows for easy parameter setting and visual monitoring.

Features

- * UniFreez™ Smart Digital Ultra Low Temperature Freezer, Upright type.
- * The UniFreeze™ System freezes down to -86°C
- * Self diagnostic function
- * Automatic temperature data-recording
- * Filter-free mechanism lowers heat generated by the compressor
- * High-quality insulation panel and inner doors ensure defrosting around outer
- * Automatic vacuum breaker, easy to re-open the door
- Robust door handle design
- * External temperature sensor ready (hole)
- * CFC-free refrigerants are used
- * Ergonomic 7" Full Touch Screen TFT LCD Smart-Lab™ Controller
- ★ WiReTM App Service
- * Controller placed at the right height for easy monitoring
- * Wi-Fi Internet connectivity. R232 Communication Link.
- * Easy maintenance
- * Built-in standard warning and alarm functions
- ❖ Delivered with certificate & traceability

Model		UniFreez U300 4 & 5 Door	UniFreez U400 4 & 5 Door	UniFreez U500 4 & 5 Door	UniFreez U700 4 & 5 Door
Part	4 Door	DH.SWUF00300	DH.SWUF00400	DH.SWUF00500	DH.SWUF00700
Number	5 Door	DH.SWUF00350	DH.SWUF00450	DH.SWUF00550	DH.SWUF00750
Capacity		308 L	393 L	503 L	714 L
	D		-86°C ~ -65°C -80°C ~ -65°C		
Temp	Range	at Ro	oom Temperature of 3	80°C and Humidity of	70%
	Sensor		PT100	Sensor	
Compressor			Herme	tic Type	
Condenser Type		Blo	ock Condenser, No Pir	n, Filter Free Mechani	sm
Refrigerant			Natural (CFC Free F	Refrigerant System)	
Controller & Disp	olay	7" Fı	ıll Touch Screen TFT L	CD - SmartLab™ Conti	roller
Shelves			3ea (4 Door),	4ea (5 Door)	
Max. Qty. of	4 Door	12 pcs of 15 (5x3) Placed Rack (RFU4234)	16 pcs of 15 (5x3) Placed Rack (RFU4234)	16pcs of 20 (5x4) Placed Rack (RFU4257)	24pcs of 20 (5x4) Placed Rack (RFU4257)
Racks	5 Door	15 pcs of 12 (4x3) Placed Rack (RFU5234)	20 pcs of 12 (4x3) Placed Rack (RFU5234)	20 pcs of 16 (4x4) Placed Rack (RFU5257)	30 pcs of 16 (4x4) Placed Rack (RFU5257)
	Internal		Stainless-S	teel (#304)	
Material	External		Powder Coated St	ainless-Steel Plate	
	Inner door	Powder Coated	Stainless-Steel (#304) / 312mm (4Door), 25	2 (5Door) Height
Chamber Dim.	Internal	470 x 500 x 1310	600 x 500 x 1310	600 x 640 x 1310	880 x 620 x 1310
$(W \times D \times H) mm$	External	710 x 750 x 1900	840 x 750 x 1900	840 x 890 x 1900	1120 x 870 x 1900
Net Weight		180 kg 210 kg 240 kg		320 kg	
Packaging Size (WxDxH)	110 x 110 x 222 116 x 116 x 222 cm 116 x 124 x 222 cm 140 x 140 x			140 x 140 x 221 cm
Gross Weight		275 kg	296 kg	327 kg	442 kg
Power Consump	tion	352 w/h 373 w/h 458 w/h 503 w/h			503 w/h
Electrical Requir	ements	1 Phase, AC 230V, 50 / 60 Hz			



UniFreez™





Ultra-Low Temp. Freezer. Compact

-86°C ~ -65°C



Features

- * UniFreez™ Personal Digital Ultra Low Temperature Freezer, Compact upright type.
- UniFreeze™ System freezes down to -86°C
- Self diagnostic function* "U80" Only
- * Automatic temperature data-recording* "U80" Only
- * Storage management function* "U80" Only
- * Filter-free mechanism lowers heat generated by the compressor
- * High-quality insulation panel and inner doors ensure defrosting around outer surface
- * External temperature sensor ready (hole)
- * CFC-free refrigerants are used
- * Ergonomic 7" Full Touch Screen TFT LCD* "U80" Only
- **Smart-Lab**[™] Controller* "U80" Only
- * WiRe[™] App Service* "U80" Only
- * Wi-Fi Internet connectivity* "U80" Only. RS232 Communication link.
- Easy maintenance
- * Built-in standard warning and alarm functions
- Delivered with certificate & traceability









WiRe[™] App Service allows monitoring and control SmartLab™ units through a smart phone or table anytime anywhere. (*U80 Model Only)

"SmartLab™ Controller



The **Smart-Lab**™ 7" Full Touch Screen Display allows for easy parameter setting and visual monitoring. (*U80 Model Only)

Model		UniFreez U25	UniFreez U80	
Part Number		DH.WUF0032	DH.SWUF0075	
Capacity		25 L	82 L	
		-86°C ^	~ -65°C	
Temp	Range	at Room Temperature of 30 $^{\circ}\text{C}$ and Humidity of 70 $\%$		
	Sensor	PT100	Sensor	
Compressor		Hermet	tic Type	
Condenser Type		Block Condenser, No Pir	n, Filter Free Mechanism	
Refrigerant		Natural (CFC Free F	Refrigerant System)	
Controller		Digital Feedback Controller	7" Full Touch Screen TFT LCD	
Shelves		None Included 1 Stainless-Stee		
Max. Qty. of Rac	ks	None, Only 10~15 Boxes are applicable	4pcs of 12 (4x3) Placed Rack (RFU5234)	
	Internal	Stainless-Steel (#304)		
Material	External	Powder Coated Steel Plate		
	Inner door	Powder Coated Sta	ninless-Steel (#304)	
Inner Door Heigl	nt	-	252mm	
Chamber Dim.	Internal	200 x 420 x 300	340 x 485 x 520	
(W x D x H) mm	External	390 x 627 x 785	530 x 687 x 1060	
Net Weight	ight 52 kg		60 kg	
Packaging Size (W x D x H)		880 x 860 x 1300 mm	960 x 760 x 1350 mm	
Gross Weight		69 kg 102 kg		
Power Consump	er Consumption 321 w/h		w/h	
Electrical Requir	ements	1 Phase, AC 230V, 50 / 60 Hz		



UniFreez[™] & **DuoFreez**[™] Optional Racks



* Stainless Steel (#304), * without Boxes

For 2 Door-type U80

Part Number	Rack Size (WxDxH) mm	Freezer box & No. of boxes	Freezer Capacity No. of Racks
DH.RFU5234SD	140 x 420 x 232	0.5 ~ 2mL, 12 (4 x 3)	
DH.RFU5434SD	140 x 420 x 171	3 ~ 4mL, 6 (2 x 3)	U80 (4ea)
DH.RFU5534SD	140 x 420 x 211	5mL, 6 (2 x 3)	

For 4 Door-type U300 / U400 / U500 / U700

Part Number	Rack Size (WxDxH) mm	Freezer box & No. of boxes	Freezer Capacity No. of Racks
DH.RFU4234SD	140 x 420 x 290	0.5 ~ 2mL, 15 (5 x 3)	
DH.RFU4434SD	140 x 420 x 256	3 ~ 4mL, 9 (3 x 3)	U300 (12ea) U400 (16ea)
DH.RFU4534SD	140 x 420 x 311	5mL, 9 (3 x 3)	0400 (loca)
DH.RFU4257SD	140 x 560 x 290	0.5 ~ 2mL, 20 (5 x 4)	
DH.RFU4457SD	140 x 560 x 256	3 ~ 4mL, 12 (3 x 4)	U500 (16ea) U700 (24ea)
DH.RFU4557SD	140 x 560 x 311	5mL, 12 (3 x 4)	0700 (E 164)

For 5 Door-type U300 / U400 / U500 / U700

Part Number	Rack Size (WxDxH) mm	Freezer box & No. of boxes	Freezer Capacity No. of Racks
DH.RFU5234SD	140 x 420 x 232	0.5 ~ 2mL, 12 (4 x 3)	
DH.RFU5434SD	140 x 420 x 171	3 ~ 4mL, 6 (2 x 3)	U300 (15ea) U400 (20ea)
DH.RFU5534SD	140 x 420 x 211	5mL, 6 (2 x 3)	0400 (2004)
DH.RFU5257SD	140 x 560 x 232	0.5 ~ 2mL, 16 (4 x 4)	
DH.RFU5457SD	140 x 560 x 171	3 ~ 4mL, 8 (2 x 4)	U500 (20ea) U700 (30ea)
DH.RFU5557SD	140 x 560 x 211	5mL, 8 (2 x 4)	0700 (3000)

Optional Freezer Racks, Side Access-type for 0.5~2mL, 3~4mL, 5mL Vial Boxes

* Stainless Steel (#304), * without Boxes

For 2 Door-type U80

Part Number	Rack Size (WxDxH) mm	Freezer box & No. of boxes	Freezer Capacity No. of Racks
DH.RFU5234SA	140 x 420 x 232	0.5 ~ 2mL, 12 (4 x 3)	
DH.RFU5434SA	140 x 420 x 171	3 ~ 4mL, 6 (2 x 3)	U80 (4ea)
DH.RFU5534SA	140 x 420 x 211	5mL, 6 (2 x 3)	

For 4 Door-type U300 / U400 / U500 / U700

Part Number	Rack Size (WxDxH) mm	Freezer box & No. of boxes	Freezer Capacity No. of Racks
DH.RFU4234SA	140 x 420 x 290	0.5 ~ 2mL, 15 (5 x 3)	, ,
DH.RFU4434SA	140 x 420 x 256	3 ~ 4mL, 9 (3 x 3)	U300 (12ea) U400 (16ea)
DH.RFU4534SA	140 x 420 x 311	5mL, 9 (3 x 3)	o roo (roca)
DH.RFU4257SA	140 x 560 x 290	0.5 ~ 2mL, 20 (5 x 4)	
DH.RFU4457SA	140 x 560 x 256	3 ~ 4mL, 12 (3 x 4)	U500 (16ea) U700 (24ea)
DH.RFU4557SA	140 x 560 x 311	5mL, 12 (3 x 4)	0700 (2468)

For 5 Door-type U300 / U400 / U500 / U700

10132001 type 03007 01007				
Part Number	Rack Size (WxDxH) mm	Freezer box & No. of boxes	Freezer Capacity No. of Racks	
DH.RFU5234SA	140 x 420 x 232	0.5 ~ 2mL, 12 (4 x 3)		
DH.RFU5434SA	140 x 420 x 171	3 ~ 4mL, 6 (2 x 3)	U300 (15ea) U400 (20ea)	
DH.RFU5534SA	140 x 420 x 211	5mL, 6 (2 x 3)	0 100 (E0Ca)	
DH.RFU5257SA	140 x 560 x 232	0.5 ~ 2mL, 16 (4 x 4)		
DH.RFU5457SA	140 x 560 x 171	3 ~ 4mL, 8 (2 x 4)	U500 (20ea) U700 (30ea)	
DH.RFU5557SA	140 x 560 x 211	5mL, 8 (2 x 4)	0700 (3000)	



Sliding drawer type, 15 Places RFU4257SD



Side access type, 20 Places RFU4257SA



UniFreez[™] & **DuoFreez**[™] Accessories

Optional Freezer Boxes / UniFreez™ / DuoFreez™

for 0.5~2mL Cryovials/Microtubes, 81 & 100 hole White Boxes, h52mm, 0.5mL: Screwcap Microtubes

81-hole Box, White, h52mm, Cell Ø15mm SL.Box9002 100-hole Box, h52mm, Cell Ø12.5mm White,

for 3mL Cryovials, 81 & 100 hole White Boxes, h77mm, fits selected 4mL Cryovials

SL.Box9003 White, h77mm, Cell Ø15mm 81-hole Box, SL.Box9004 100-hole Box, White, h77mm, Cell Ø12.5mm

for 5mL Cryovials, 64 & 81 hole White Boxes, h98mm

SL.Box9007 64-hole Box, White, h98mm, Cell Ø16mm SL.Box9008 81-hole Box, White, h98mm, Cell Ø15mm

for 0.5~2mL Cryovials & Microtubes, 5 Color Assorted Box-Set, 81 & 100 hole, 5 Colors: Blue / Green / Pink / Yellow / White - Assorted

81-hole/5 color Box set, h52mm, Cell Ø15mm SL.Box9006 100-hole/5 color Box set, h52mm, Cell Ø12.5mm

i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor™ 81 holes Cell Ø15mm, 5 Color Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor Cardboard Freezer Box-set i for 0.5~2mL Cryovials & Microtubes, IDColor Cardboard Freezer Box-set i for 0.5~2mL

SL.Box9014.Y Freezer Box, 81-hole, for 0.5~2.0mL, Yellow SL.Box9014.0 Freezer Box, 81-hole, for 0.5~2.0mL, Orange SL.Box9014.G Freezer Box, 81-hole, for 0.5~2.0mL, Green SL.Box9014.B Freezer Box, 81-hole, for 0.5~2.0mL, Blue SL.Box9014.W Freezer Box, 81-hole, for 0.5~2.0mL, White

for 1.5/2.0mL Cryovials/Microtube, 81-Holes, Ø15mm, Hard Board Storage Boxes with Hard Board / PP Divider

Hard Board Box, with Hard Board Divider, 81 Hole, 133 x 133 x h52 mm C11.001 C11.002 Hard Board Box, with PolyPropylene Divider, 81 Hole, 133 X 133 X h52 mm



SL.Box9001



Sl.Box9005 - Assorted Colours



SL.Box9014 Assorted Colours



C.11001



C.11002



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