

DAIHAN® -95°C ~ -65°C SMART Multiuse ULT Freezer, DuoFreez™ Double Security, I. Medicaluse & II. Lab-use

Smart-Lab™ with WiRe™ App, Programmable & Monitoring System, CFC-free Refrigerant, 393 · 503 · 714 · 796Lit

Ideal for Secure Storage of Vaccine · Viruses · Anatomy Components · Bio-products · DNA · Blood · Tissue Samples etc. in Lab & Industry

스마트 다용도 안전 초저온 백신냉동고, 백신 · 바이러스 · 해부조직물 · Bio물질 · DNA · 혈액 · 티슈시료 등을 안전 보관 유지용



ULT Freezer "Fre500-B95"

I. With or II. Without Recorder

2-Year Warranty



※ Note! You can choose 4 or 5 Inner Doors Model



WiRe™ App Service

Controlled by Mobile-Phone

It is possible to monitor and control the Smart-Lab™ equipment through all mobile phone, tablet without restraint of time and place.

※ Note! Optional Freezer Racks, Boxes, etc. ⇒ See the "Refrigerators, Freezer Accessories" Section

* Other Specifications are available upon Customer's Request.

- Made in Korea ■ GD(Good Design)-mark ■ PL(Product Liability) Insurance
- With Certificate · Traceability · Delivery-information ; Controlled by Serial Number
- DuoFreez™ System can Down to -95°C and High-stability System can be offered ; If One Freezing System Fails in operation The Other One System Still Maintains Down to -80°C
- Smart-Lab™ Control : Remote Controlled by Mobile-Phone with WiRe™ App Service
 - Internet Connectivity with WiFi. - Storage Management & Automatic Temp. Data Recording.
 - Ergonomic 7" Full Touch Screen TFT LCD ; Easy Monitoring and Control.
 - Self-Diagnostic Function : Built in Standard Warning and Alarm Function
- * Easy Maintenance and Improved Performance
- * High-quality Insulation Panel and Inner Doors ensure Defrosting around Outer Surface
- * Automatic Vacuum Breaker : Easy to re-open the Door
- * Robust & Flexible Design of Door Handle * External Temp. Sensor Hole
- * Filter-free Mechanism Lowers Heat Generated by the Compressor

I. Medicaluse Approved Model ; Built-in Temp Chart Recorder

II. Laboratory / Standard Model ; Without Recorder

Specifications & Ordering information

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		"Fre400-B95" Max. 393Lit	"Fre500-B95" Max. 503Lit	"Fre700-B90" Max. 714Lit	"Fre800-B90" Max. 796Lit
I. Medicaluse Approved		with Built in Temp Chart Recorder Record Range : -100°C ~ 0°C, divi 2°C ; 7days/1Chart, 60Charts/Cs.			
II. Laboratory / Standard		"Fre400-95" Max. 393Lit	"Fre500-95" Max. 503Lit	"Fre700-90" Max. 714Lit	"Fre800-90" Max. 796Lit
		without Temp Chart Recorder			
Capacity		393 Lit	503 Lit	714 Lit	796 Lit
Temp. Range		-95°C ~ -65°C		-90°C ~ -65°C	
		at R/T of 30°C and Humidity of 70%			
Temp. Resolution & Sensor		1°C - Display, 1°C - Control & PT100 Sensor			
Compressor		Hermetic-type			
Condenser-type		Block Condenser, Pin and Filter Free Mechanism			
Refrigerant		CFC Free Mixed Gas Refrigerant(DH.MGR)			
Controller		Smart-Lab™ ; 7" Full Touch Screen TFT LCD			
Shelf(Included)		3ea(4-Inner Door), 4ea(5-Inner Door) Perforated Stainless-steel Shelves			
Max. Q'ty of Racks	4-Inner Door (Height 31.2cm)	16pcs of 15(5×3)-Placed Rack (RFU4234)	16pcs of 20(5×4)-Placed Rack (RFU4257)	24pcs of 20(5×4)-Placed Rack (RFU4257)	28pcs of 20(5×4)-Placed Rack (RFU4257)
	5-Inner Door (Height 25.2cm)	20pcs of 12(4×3)-Placed Rack (RFU5234)	20pcs of 16(4×4)-Placed Rack (RFU5257)	30pcs of 16(4×4)-Placed Rack (RFU5257)	35pcs of 16(4×4)-Placed Rack (RFU5257)
Material	Internal	Stainless-steel(#304)			
	External	Powder Coated Steel			
	Inner Door	Powder Coated Stainless-steel(#304)			
Dimension (w×d×h)	Internal (cm)	60×50×131	60×64×131	88×62×131	100×62×131
	External (cm)	84×75×190	84×89×190	112×87×190	124×87×190
Weight		210 kg	240 kg	320 kg	350 kg
Packing Size(w×d×h) (cm) & Gross Weight		116×116×222	116×124×222	140×140×221	150×140×221
		296 kg	327 kg	442 kg	472 kg
Power Consumption	Standard Mode	474 w/h	507 w/h	596 w/h	629 w/h
	Eco. Mode	373 w/h	458 w/h	503 w/h	588 w/h
Electric Reqts.		1 Phase, AC120V, 60Hz or AC 230V, 50/60Hz			

I. Medicaluse Approved Model ; Built-in Temp Chart Recorder

Cat. No.	230V	DH.FreB9400	DH.FreB9500	DH.FreB9700	DH.FreB9800
(4-Inner Door)	120V	DH.FreB9401	DH.FreB9501	DH.FreB9701	DH.FreB9801
Price, Each. ₩					

II. Laboratory / Standard Model ; Without Recorder

Cat. No.	230V	DH.FreL9400	DH.FreL9500	DH.FreL9700	DH.FreL9800
(4-Inner Door)	120V	DH.FreL9401	DH.FreL9501	DH.FreL9701	DH.FreL9801
Price, Each. ₩					

Cat. No.	230V	DH.FreL94005	DH.FreL95005	DH.FreL97005	DH.FreL98005
(5-Inner Door)	120V	DH.FreL94015	DH.FreL95015	DH.FreL97015	DH.FreL98015
Price, Each. ₩					

※ 운임 착불

DAIHAN® -86°C ~ -65°C SMART Multiuse ULT Freezer, UniFreez™ Single Compressor, **I. Medicaluse & II. Lab-use Smart-Lab™** with WiRe™ App, Programmable & Monitoring System, CFC-free Refrigerant, 393 · 503 · 714 · 796Lit

Ideal for Secure Storage of Vaccine · Viruses · Anatomy Components · Bio-products · DNA · Blood · Tissue Samples etc. in Lab & Industry
 스마트 다용도 안전 초저온 백신냉동고, 백신·바이러스·해부조직물·Bio물질·DNA·혈액·티슈시료 등을 안전 보관 유지용



I. With or II. Without Recorder

2-Year Warranty

ULT Freezer "Fre500-B86"



※ Note! You can choose 4 or 5 Inner Doors Model



WiRe™ App Service

Controlled by Mobile-Phone

It is possible to monitor and control the Smart-Lab™ equipment through all mobile phone, tablet without restraint of time and place.

※ Note! Optional Freezer Racks, Boxes, etc.
 ⇒ See the "Refrigerator, Freezer Accessories" Section

- Made in Korea ■ GD(Good Design)-mark ■ PL(Product Liability) Insurance
- With Certificate · Traceability · Delivery-information ; Controlled by Serial Number
- UniFreez™ Single Freezing System : Ensure Robust and Long Life-cycle
- Smart-Lab™ Control : Remote Controlled by Mobile-Phone with WiRe™ App Service
 - Internet Connectivity with WiFi. - Storage Management & Automatic Temp. Data Recording.
 - Ergonomic 7" Full Touch Screen TFT LCD ; Easy Monitoring and Control.
 - Self-Diagnostic Function : Built in Standard Warning and Alarm Function
- * Easy Maintenance and Improved Performance
- * High-quality Insulation Panel and Inner Doors ensure Defrosting around Outer Surface
- * Automatic Vacuum Breaker : Easy to re-open the Door
- * Robust & Flexible Design of Door Handle * External Temp. Sensor Hole
- * Filter-free Mechanism Lowers Heat Generated by the Compressor

I. Medicaluse Approved Model ; Built-in Temp Chart Recorder

II. Laboratory / Standard Model ; Without Recorder

Specifications & Ordering information

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	"Fre400-B86" Max. 393Lit	"Fre500-B86" Max. 503Lit	"Fre700-B80" Max. 714Lit	"Fre800-B80" Max. 796Lit
I. Medicaluse Approved	with Built in Temp Chart Recorder Record Range : -100°C ~ 0°C, divi 2°C ; 7days/1Chart, 60Charts/Cs.			
II. Laboratory / Standard	"Fre400-86" Max. 393Lit	"Fre500-86" Max. 503Lit	"Fre700-80" Max. 714Lit	"Fre800-80" Max. 796Lit
	without Temp Chart Recorder			
Capacity	393 Lit	503 Lit	714 Lit	796 Lit
Temp. Range	-86°C ~ -65°C		-80°C ~ -65°C	
	at R/T of 30°C and Humidity of 70%			
Temp. Resolution & Sensor	1°C - Display, 1°C - Control & PT100 Sensor			
Compressor	Hermetic-type			
Condenser-type	Block Condenser, Pin and Filter Free Mechanism			
Refrigerant	CFC Free Mixed Gas Refrigerant(DH.MGR)			
Controller	Smart-Lab™ ; 7" Full Touch Screen TFT LCD			
Shelf(Included)	3ea(4-Inner Door), 4ea(5-Inner Door) Perforated Stainless-steel Shelves			
Max. Q'ty of Racks	4-Inner Door (Height 31.2cm)	16pcs of 15(5×3)-Placed Rack (RFU4234)	16pcs of 20(5×4)-Placed Rack (RFU4257)	24pcs of 20(5×4)-Placed Rack (RFU4257)
	5-Inner Door (Height 25.2cm)	20pcs of 12(4×3)-Placed Rack (RFU5234)	20pcs of 16(4×4)-Placed Rack (RFU5257)	30pcs of 16(4×4)-Placed Rack (RFU5257)
Material	Internal	Stainless-steel(#304)		
	External	Powder Coated Steel		
	Inner Door	Powder Coated Stainless-steel(#304)		
Dimension (w×d×h)	Internal (cm)	60×50×131	60×64×131	88×62×131
	External (cm)	84×75×190	84×89×190	112×87×190
Weight	210 kg	240 kg	320 kg	350 kg
Packing Size(w×d×h) (cm) & Gross Weight		116×116×222	116×124×222	140×140×221
		296 kg	327 kg	442 kg
Power Consumption	373 w/h	458 w/h	503 w/h	588 w/h
Electric Reqts.	1 Phase, AC120V, 60Hz or AC 230V, 50/60Hz			

I. Medicaluse Approved Model ; Built-in Temp Chart Recorder

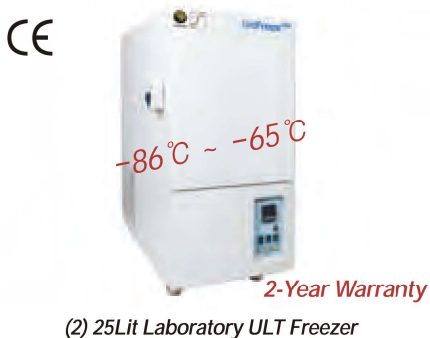
Cat. No.	230V	DH.FreB8400	DH.FreB8500	DH.FreB8700	DH.FreB8800
(4-Inner Door)	120V	DH.FreB8401	DH.FreB8501	DH.FreB8701	DH.FreB8801
Price, Each. ₩					

II. Laboratory / Standard Model ; Without Recorder

Cat. No.	230V	DH.FreL8400	DH.FreL8500	DH.FreL8700	DH.FreL8800
(4-Inner Door)	120V	DH.FreL8401	DH.FreL8501	DH.FreL8701	DH.FreL8801
Price, Each. ₩					
Cat. No.	230V	DH.FreL84005	DH.FreL85005	DH.FreL87005	DH.FreL88005
(5-Inner Door)	120V	DH.FreL84015	DH.FreL85015	DH.FreL87015	DH.FreL88015
Price, Each. ₩					

* Other Specifications are available upon Customer's Request.

DAIHAN® -86°C ~ -65°C Personal SMART Multiuse ULT Freezer, UniFreez™ Single Compressor, **I. Medicaluse & II. Lab-use Smart-Lab™** with WiRe™ App, Programmable & Monitoring System, CFC-free Refrigerant, Upright- & Under Bench-type, 25 · 82Lit
 Ideal for Secure Storage of Vaccine · Viruses · Anatomy Components · Bio-products · DNA · Blood · Tissue Samples etc. in Lab & Industry
 퍼스널(소형) 스마트 다용도 안전 초저온 백신냉동고, 백신 · 바이러스 · 해부조직물 · 생물질 · DNA · 혈액 · 티슈시료 등을 안전 보관 유지용



- Made in Korea ■ CE Certified ■ PL (Product Liability) Insurance
- UL, CUL Certified and GD mark(Only 82Lit Model)
- With Certificate · Traceability · Delivery-information ; Controlled by Serial Number
- UniFreez™ Single Freezing System : Ensure Robust and Long Life-cycle
- Smart-Lab™ Control : Remote Controlled by Mobile-Phone with WiRe™ App Service
 - Internet Connectivity with WiFi - Storage Management & Automatic Temp. Data Recording.
 - Ergonomic 7" Full Touch Screen TFT LCD ; Easy Monitoring and Control.
 - Self-Diagnostic Function : Built in Standard Warning and Alarm Function
- * Easy Maintenance and Improved Performance * Robust & Flexible Design of Door Handle
- * High-quality Insulation Panel and Inner Doors ensure Defrosting around Outer Surface.
- * CFC-free Mixed Gas Refrigerant is used. * External Temp. Sensor Hole
- * Filter-free Mechanism Lowers Heat Generated by the Compressor

I. Medicaluse Approved Model ; Built-in Temp Chart Recorder

II. Laboratory / Standard Model ; Without Recorder

Specifications & Ordering information

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Spec.	Model-type	Upright-type		Under Bench-type
		(1) "Fre25-B86" Max. 25Lit	(3) "Fre80-B86" Max. 82Lit	(5) "Fre80-B86U" Max. 82Lit
I. Medicaluse Approved		with Built in Temp Chart Recorder Record Range : -100°C ~ 0°C, divi 2°C ; 7days/1Chart, 60Charts/Cs.		
II. Laboratory / Standard		(2) "Fre25-86" Max. 25Lit	(4) "Fre80-86" Max. 82Lit	(6) "Fre80-86U" Max. 82Lit
		without Temp Chart Recorder		
Capacity		25 Lit	82 Lit	
Temp. Range		-86°C ~ -65°C at R/T of 30°C and Humidity of 70%		
Temp. Resolution & Sensor		1°C - Display, 1°C - Control & PT100 Sensor		
Compressor		Hermetic-type		
Condenser-type		Block Condenser, Pin and Filter Free Mechanism		
Refrigerant		CFC Free Mixed Gas Refrigerant(DH.MGR)		
Controller	Digital Feedback Controller	Smart-Lab™ ; 7" Full Touch Screen TFT LCD		
Shelf(Included)	None	1ea Stainless-steel Shelf	None	
Inner Door	None	2 Door Height 252mm	None	
Max. Q'ty of Racks	None, Only 10~15 Boxes are applicable	4pcs of 12(4×3)-Placed Rack (RFU5234)	3pcs of 12(4×3)-Placed Rack or Max. 54 Box without Rack	
Material	Internal	Stainless-steel(#304)		
	External	Powder Coated Steel		
	Inner Door	Powder Coated Stainless-steel(#304)		
Dimension (w×d×h)	Internal (cm)	20×42×30	34×48.5×52	52×48.5×34
	External (cm)	39×62.7×78.5	53×68.7×106	106.5×72.2×61.2
Weight		52 kg	60 kg	
Packing Size(w×d×h) (cm) & Gross Weight		88×86×130	96×76×135	135×76×96
		69 kg	102 kg	
Power Consumption		321 w/h		
Electric Reqts.		1Phase, AC 120V, 60Hz or AC 230V, 50/60Hz		

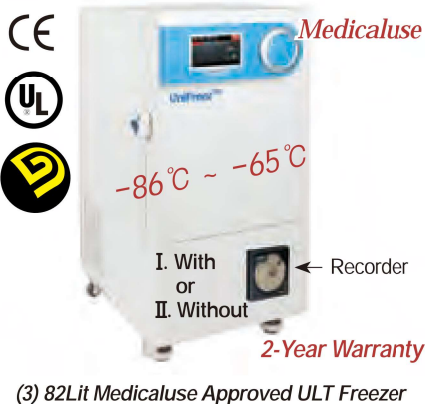


Fig1 ; Under-bench Installation
 Fig2 ; 2 unit Stacked with Optional Stacking Panel-set



It is possible to monitor and control the Smart-Lab™ equipment through all mobile phone, tablet without restraint of time and place.

Controlled by Mobile-Phone

I. Medicaluse Approved Model ; Built-in Temp Chart Recorder

Cat. No.	230V	DH.FreB8025	DH.FreB8080	DH.FreB8080U
	120V	DH.FreB8026	DH.FreB8081	DH.FreB8081U
Price, Each. ₩				

II. Laboratory / Standard Model ; Without Recorder

Cat. No.	230V	DH.FreL8025	DH.FreL8080	DH.FreL8080U
	120V	DH.FreL8026	DH.FreL8081	DH.FreL8081U
Price, Each. ₩				

* Other Specifications are available upon Customer's Request.

※ 운임 착불

Optional Stacking Panel-set for Under Bench-type

DH.SWUF.SP02 (a) Stacking Panel-set, 590×126mm(3mm Thickness)	Set.	Price, ₩
	2ea	



※ Note! Optional Freezer Racks, Boxes, etc.
 ⇒ See the "Refrigerator, Freezer Accessories" Section