

STATIC COOLING SYSTEM

# CUF SERIES



## INTRODUCTION

The CUF series of upright type that is convenient to use and can use the space efficiently is a dual cooling system of independent structure to provide a high cooling performance and the best safety for storage of samples.

UDSscientific  
ULTRA-LOW TEMPERATURE FREEZERS

## CUF SERIES KEY FEATURES



### Independent switching type of interior door

The polyurethane insulation maintains the best insulation performance, and the opening of only the necessary parts can minimize exposure of samples to the outside.



### Vent port

Solving the negative pressure occurring after the opening/closing of the door can make the door re-opened properly.



### Interior door handle

The interior door with a separate handle can seal the interior perfectly during the closing of the door to maintain high airtightness.



### Chart recorder (option)

It is possible to install a chart recorder with excellent readability.

**Interior gasket of triple structure**

The door gasket of triple structure can perfectly intercept the outflow of internal chilly air and the inflow of external hot air finally.

**Main body of 120mm insulation thickness**

The main body robustly foamed with 120mm thick polyurethane can exert the best insulation performance to block the loss of chilly air.

**USB data port**

The USB data port basically provided enables you to easily check the operation situation data on the product in diverse types such as annual, monthly, daily, hourly units.

**Door fan**

Circulating the moisture that can happen due to temperature deviation periodically can prevent dew condensation.



**Door handle**

The simple and robust door handle can be easily and conveniently used by anyone and is equipped with locking devices to allow access only to the authorized minimum personnel.



**Simplified structure design**

The simplified machine room in an innovative structure design of independent cooling type can much reduce generation of heat by compressors, and the application of block condensers without pins and filters eliminates the necessity of maintenance such as replacement or cleaning.

**Dual compressor system**

Temperature is maintained at least -70c all the time due to independent cooling system even though any compressor is broken down.

STATIC COOLING SYSTEM  
**CUF-37D**

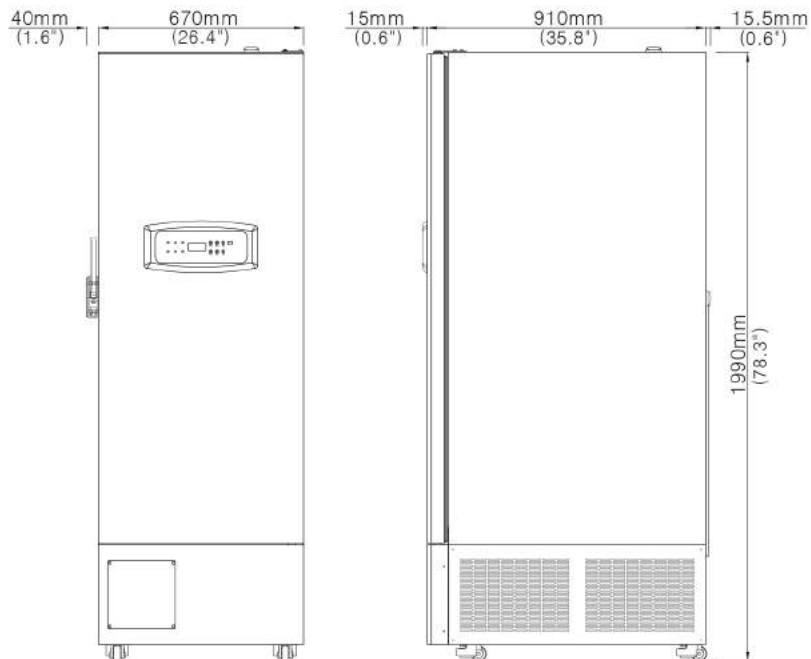


## GENERAL SPECIFICATIONS

Size		Capacity	Materials			Net weight
External	Internal		External	Internal door	Internal	
670 x 910 x 1990mm	430 x 640 x 1370mm	376L	Powder Coated Steel Plate	ABS + Polyurethane (Polyurethane Insulation)	Stainless Steel	250kg
26.4" x 35.8" x 78.3"	16.9" x 25.1" x 53.9"	13.2cu.ft				
<b>Cooling system</b>	Dual Compressor System	<b>Cooling performance (max)</b>		-80°C		
<b>Range of temperature (use)</b>	-60°C ~ -80°C	<b>Range of temperature (ambient)</b>		15°C ~ 35°C		
<b>Temperature sensor</b>	PT100 Sensor	<b>Refrigerant</b>		HFC (CFC Free Refrigerants System)		
<b>Compressor</b>	Hermetic Type	<b>Type of condenser</b>		Block Condenser (No Pin, Filter Free Mechanism)		
<b>Controller</b>	Digital	<b>Shelf materials &amp; Q'ty</b>		Stainless Steel 304, Adjustable, 3 Shelves		
<b>Type of rack</b>	20 (4x5) Placed Rack (RFU20SD, RFU20SA)	<b>Q'ty of rack</b>		12		
<b>Rated voltage</b>	220V, 50Hz, 7.5A	<b>Power consumption</b>		1.65kW		

\* Voltage and Hz can be customized according to customer's needs  
 \* All specifications are subject to change prior notice

## DETAIL VIEW



STATIC COOLING SYSTEM  
**CUF-53D**

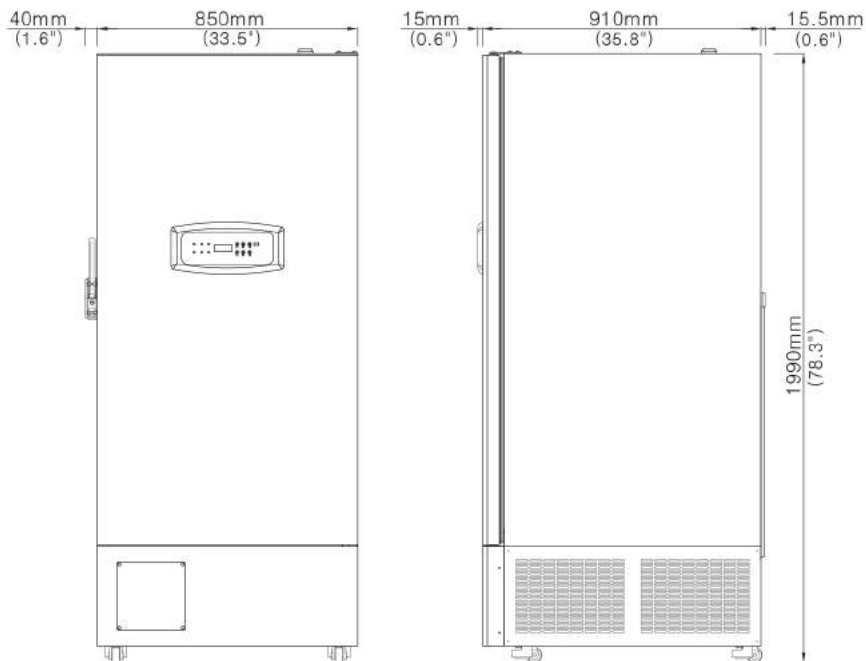


## GENERAL SPECIFICATIONS

Size		Capacity	Materials			Net weight
External	Internal		External	Internal door	Internal	
850 x 910 x 1990mm	610 x 640 x 1370mm	534L	Powder Coated Steel Plate	ABS + Polyurethane (Polyurethane Insulation)	Stainless Steel	330kg
33.5" x 35.8" x 78.3"	24" x 25.1" x 53.9"	18.8cu.ft				
<b>Cooling system</b>	Dual Compressor System	<b>Cooling performance (max)</b>	-80°C			
<b>Range of temperature (use)</b>	-60°C ~ -80°C	<b>Range of temperature (ambient)</b>	15°C ~ 35°C			
<b>Temperature sensor</b>	PT100 Sensor	<b>Refrigerant</b>	HFC (CFC Free Refrigerants System)			
<b>Compressor</b>	Hermetic Type	<b>Type of condenser</b>	Block Condenser (No Pin, Filter Free Mechanism)			
<b>Controller</b>	Digital	<b>Shelf materials &amp; Q'ty</b>	Stainless Steel 304, Adjustable, 3 Shelves			
<b>Type of rack</b>	20 (4x5) Placed Rack (RFU20SD, RFU20SA)	<b>Q'ty of rack</b>	16			
<b>Rated voltage</b>	220V, 50Hz, 7.5A	<b>Power consumption</b>	1.65kW			

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## DETAIL VIEW



STATIC COOLING SYSTEM  
**CUF-70D**

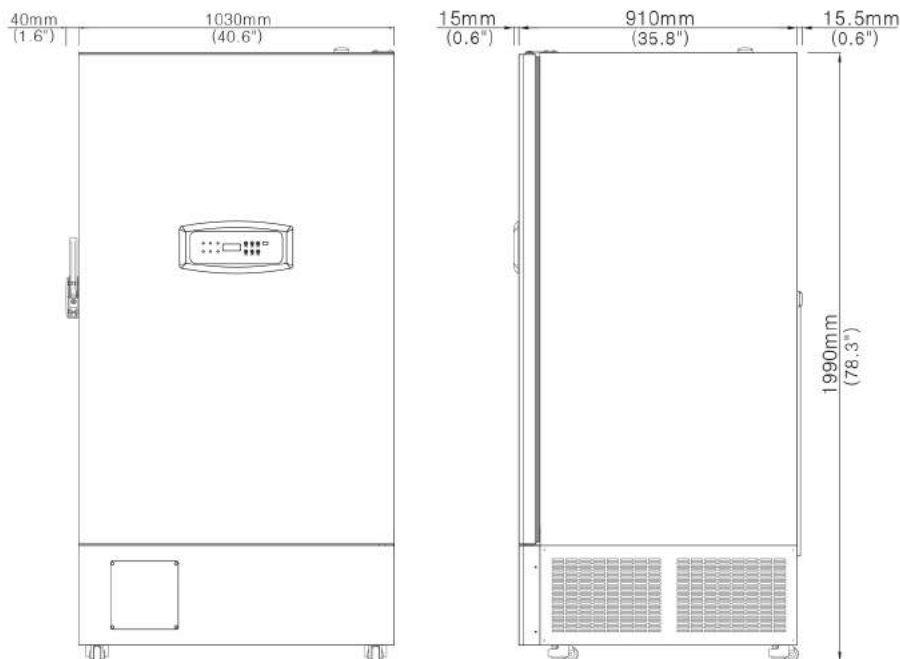


## GENERAL SPECIFICATIONS

Size		Capacity	Materials			Net weight
External	Internal		External	Internal door	Internal	
1030 x 910 x 1990mm	790 x 650 x 1370mm	702L	Powder Coated Steel Plate	ABS + Polyurethane (Polyurethane Insulation)	Stainless Steel	410kg
40.6" x 35.8" x 78.3"	31.1" x 25.5" x 57.8"	24.7cu.ft				
<b>Cooling system</b>	Dual Compressor System	<b>Cooling performance (max)</b>	-80°C			
<b>Range of temperature (use)</b>	-60°C ~ -80°C	<b>Range of temperature (ambient)</b>	15°C ~ 35°C			
<b>Temperature sensor</b>	PT100 Sensor	<b>Refrigerant</b>	HFC (CFC Free Refrigerants System)			
<b>Compressor</b>	Hermetic Type	<b>Type of condenser</b>	Block Condenser (No Pin, Filter Free Mechanism)			
<b>Controller</b>	Digital	<b>Shelf materials &amp; Q'ty</b>	Stainless steel 304, adjustable, 3 shelves			
<b>Type of rack</b>	20 (4x5) Placed Rack (RFU20SD, RFU20SA)	<b>Q'ty of rack</b>	20			
<b>Rated voltage</b>	220V, 50Hz, 9.0A	<b>Power consumption</b>	1.98kW			

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## DETAIL VIEW





STATIC COOLING SYSTEM  
**SUF-35D**



## GENERAL SPECIFICATIONS

Size		Capacity	Materials			Net weight
External	Internal		External	Internal door	Internal	
460 x 620 x 685mm	340 x 355 x 300mm	36L	EGI	ABS + Polyurethane (Polyurethane Insulation)	Stainless Steel	63Kg
18.1" x 24.4" x 26.9"	13.4" x 14" x 11.8"	1.3cu. Ft.				
<b>Cooling system</b>	Single Compressor System	<b>Cooling performance (max)</b>		-80°C		
<b>Range of temperature (use)</b>	-60°C ~ -80°C	<b>Range of temperature (ambient)</b>		15°C ~ 35°C		
<b>Temperature sensor</b>	PT100 Sensor	<b>Refrigerant</b>		HFC (CFC Free Refrigerants System)		
<b>Compressor</b>	Hermetic Type	<b>Type of condenser</b>		Block Condenser (No Pin, Filter Free Mechanism)		
<b>Controller</b>	Digital	<b>Shelf materials &amp; Q'ty</b>		Stainless Steel 304, Adjustable, 3 Shelves		
<b>Type of rack</b>	4(2*2) Placed Rack (RFU4SD)	<b>Q'ty of rack</b>		4		
<b>Rated voltage</b>	220V, 50Hz, 2.4A	<b>Power consumption</b>		528W		

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## DETAIL VIEW

