# ULTRA LOW TEMPERATURE FREEZERS -86°C

DUO-sete

ilShin

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DEEP FREEZER QUICK FREEZER BLOOD BANK REFRIGERATOR PHARMACEUTICAL REFRIGERATOR ICE MAKER

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DUO s@fe series

## DUO s@fe Series

New DUO s@fe series of Cryo-Pride is equipped with cutting edge COSCOM (Combination Of Single Compressor Operation Mode) technology by two independent compressor mechanisms.

Combination of VIP(Vacuum Insulation Panel) and insulation by high pressure injection enable maximum insulation as well as lowest energy consumption for keeping your valuable samples with maximum safety. Auto Cascade system with COSCOM technology protects your samples from any risk other than blackout. With low noise and all time monitoring "Blackbox" service, our DUO s@fe series shall be successful companion of your comfortable research.



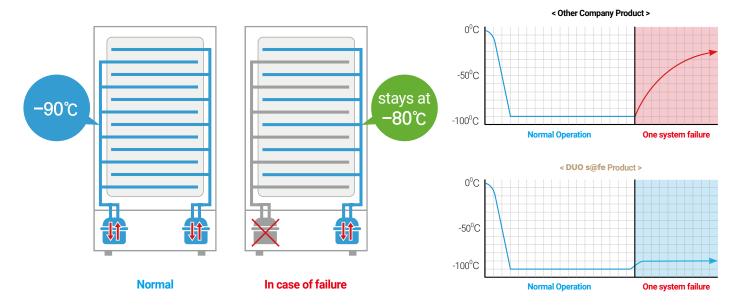
## **Main Features**

DUO s@fe series

## 

### COSCOM System

Two independent cooling mechanisms. One cooling systems maintains -80°C in case of system failure.



# 2. 24/7 real time monitoring **BLACK BOX** service

GLOBAL REAL TIME CARE SERVICE



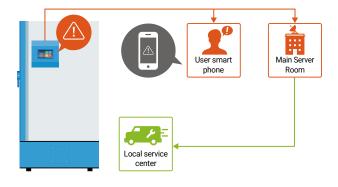


### Remote monitoring by Internet of things technology

Manufacturer's central monitoring server gives 24/7 real time monitoring by IoT technology. In case of any event, server gives notices to user and designated service team.

#### Central server monitoring data

- 1. Temperature: Chamber temperature of the freezer
- 2. Trend information: Temperature variation for last 24 hours
- **3. Alarm event:** Compressor over temperature, compressor over current, system overheat, temperature sensor failure, power off, low voltage, cold alarm, warm alarm and door open alarm.



### Prompt and proactive action

User can find any events by application of smart phone. Diagnosis and corrective action are noticed. \*App. OS: Android 2.3 (Gingerbread) or above, IOS 9.2 or above

Any event alarm goes to user' smart phone and to main server. Main server shall review history data of the unit and prompt diagnosis is executed. Service action is instructed proactively!

## < Conventional service protocol >

Step	Processing details
1	Checking symptoms
2	Service request
3	Engineer field visit and diagnosis
4	Service parts request
5	Engineer visit for repair
6	System reactivated

### **Complication, time consumption**

## < New **DUO s@fe** service protocol >

Step	Processing details
1	Event happens, service instruction provided
6	Completion of service

### No hassle, Non-Stop service!

No need for searching your samples!

# **1. INVENTORY MANAGING SYSTEM**

### Inventory system

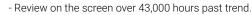


Digital memo function for sample storage location.Energy saving with minimized door open time.



# 2. data review by touch and scroll- TREND DATA

#### Graph



- USB download of data is available.





# 3. monitoring in your hand- MOBILE CONTROL

## Mobile remote control

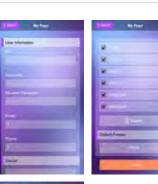
Monitoring and control by mobile application is available with your computer, Lap top, smart phone or tablet PC.



# **CONTROL SYSTEM** MOBILE APPLICATION



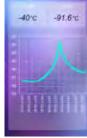
\* Log in Mobile App account open and log in.



### \* My page

Registration of user unit. Service authorization.

\* Main Setup, My page, Temperature graph, Event menu. Real time monitoring page.



### \* History

Present data and trend data for last 43,000 hours on screen.

\* Event Alarm events display and review.



\* Setting

Parameter setup, password setup and authorization control.

Better protection and lower energy consumption!

## **1. POWERFUL INSULATION**



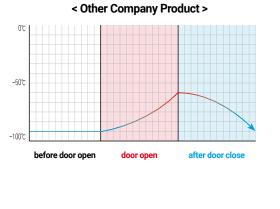
### Improved insulation

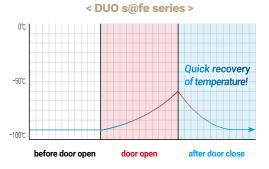
Combination of VIP and PU provides better insulation that enables fast recovery of chamber temperature.

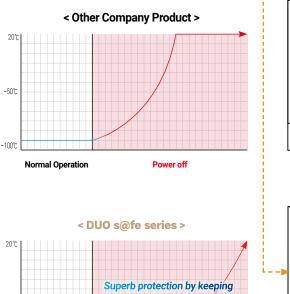


## Temperature change before and after door open/close

## Temperature variation during power off













# Don't get bothered by loud noise anymore 1. LOW NOISE STRUCTURE



## Designed for low noise

Comfortable work environment is provided. Noise level is as low as home refrigerator.

Low noise below 55.1dB(A)



< TUV NORD Performance Certificate >

+ SERIES

Our new developed + Series are available for customers who don't need a full-colour touch-screen, internet connection and smartphone application, but do want to take advantage of the Duo-Safe redundant refrigeration system to offer maximum sample safety and piece of mind when talking about storing their samples at Ultra Low temperatures.

With the + Series (as it is with the Duo-Safe Series) we offer a fully redundant -86°C; If a compressor fails or in case of a leakage in a refrigeration system the other system maintains the temperature of the products at -80°C until service will be provided at customers convenience.



## **Main Features**

+ SERIES



## Independent cooling mechanisms

## **1. DOUBLE SAFETY**

## \*COSCOM system

Even with failure of one compressor, temperature is still maintained at -80°C.

## Easy Control by 3 Buttons

## **2. SIMPLIFIED CONTROL SYSTEM**

## \*Micro process control system

+ Series is optimal for long term bio-depository with easy user interface and simplified performance.

## No worries about overheat or dust accumulation!

**3. PIN-LESS CONDENSATION SYSTEM** 

## \*Pin-less

No need for cleaning, no need for filter replacement. Compressor overheat is prevented.

## [ILSHIN CHEST] Series

ILSHIN Chest Series is optimal for long term storage of large size samples at the range of  $-90^{\circ}C \sim -120^{\circ}C$ .

 $-10^{\circ}$ C ~  $-120^{\circ}$ C ILSHIN Chest lineup is with reliable cascade refrigeration technology. With accumulated know-how, micro process control system provides easy and hassle free long term bio-depository solution.



## **Main Features**

ILSHIN CHEST SERIES

## Light and handy

# . POLYETHYLENE INNER DOOR

Light and handy inner doors make your research more comfortable.

Self-diagnosis function, smart & easy maintenance

## **2. SELF-DIAGNOSIS FUNCTION**

Temperature and voltage parameters are monitored and alarm is generated at any emergency situation.

Temperature check by one glance

## **3. MONITORING SYSTEM**

RS-232 and 485 communication port allows real time monitoring by personal computer.

ILSHIN - CHEST

PERSONAL SERIES

## [PERSONAL] Series

New compact Personal series is suitable for your private sample storage. VIP and simple economic design allow you to enjoy comfortable and convenient storage with energy efficiency.

Easy stacking is possible with optional choice of moving wheels. Service port for back up device is available.

> COMPACT SIZE

# **Main Features**

PERSONAL SERIES



## Convenient access

## . COMPACT DESIGN

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2

ilShin

Table top or under counter storage is possible even with small space. Fast and easy access is privilege of Personal series.

## If you need more storage? 2. 2<sup>nd</sup> STACKING

Easy build up without need of more space.

# **QUICK FREEZER**

QDF SERIES

## [QUICK FREEZER]

General use of deep freezer is long term storage of samples but special samples such as blood and specific reagents need prompt freezing for keeping their properties.

QDF Series is optimal solution for fast and reliable freezing without chance of any damage on your samples.



## **Main Features**

QUICK FREEZER

# Powerful & fast freezing system 1. FAST FREEZING SYSTEM

Specially designed refrigeration system and powerful ventilation pull down from  $20^{\circ}$ C to  $-40^{\circ}$ C within 1hour.

# Perfect insulation 3. 4 LAYER GASKET

0.0

3 layers on chamber side and 1 on door side, minimizing loss of cold air.

Rail type air hole drawer with enough space
2. REMOVABLE RAIL DRAWER

Rail type drawer with air hole enables good circulation of cold air. Convenient way of categorized sample storage.

## **DETAIL & FEATURES** DEEP FREEZER



#### Smart Monitoring Application

24/7 monitoring available on your smart phone. Proactive notice from command room in case of alarm event.



**Finger Print Door Lock** 

Enhanced security: by finger print registration or by card key.



Inner door for each shelf

HDPE inner doors minimize cold air loss.



**Powerful insulation** 

High pressure injected POLY URETHANE with 130mm thickness keeps temperature less than 3°C between chamber inside and outer wall.





**Control panel** 

 TFT LCD 7" Touch Screen
 Smart Microprocessor control



**Sliding Rack** 

Convenient storage by separated racks with sliding mode.



Anti-explosion door lock

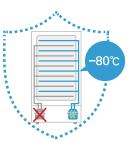
Auto relief system(open & close) works in case of high pressure formed inside of chamber. Key set is provided for locking function.

#### **Black Box**

Manufacturer's central monitoring server gives 24/7 real time monitoring by IoT technology. In case of any event, server gives notices to user and designated service team. < CENTRAL SERVER MONITORING DATA >

1. Temperature: chamber temperature of the freezer.

 Trend information: temperature variation for last 24 hours.
 Alarm event: compressor over temperature, compressor over current, system overheat, temperature sensor failure, power off, low voltage, cold alarm, warm alarm and door open alarm.



#### Coscom system (Combination of single compressor operation mode)

Even with failure of one compressor, temperature is still maintained at -80°C. Fast pull down to -90°C and energy efficient ECO mode.

# **SPECIFICATIONS** DEEP FREEZER SERIES

### DUO s@fe series -86°C

Series	DF8510	DF8514	DF8517	DF8520	DF8524	DF8530	
Capacity	276 liters	369 liters	484 liters	605 liters	730 liters	832 liters	
Ext. Dimensions (WxDxH mm)	920 x 805 x 1660	920 x 805 x 1980	920 x 955 x 1980	1070 x 955 x 1980	1227 x 957 x 1980	1227 x 985 x 1980	
Int. Dimensions (WxDxH mm)	600 x 480 x 970	600 x 480 x 1290	600 x 630 x 1290	750 x 630 x 1290	890 x 635 x 1290	890 x 725 x 1290	
Temperature Range (ºC)		$-60^{\circ}C \sim -90^{\circ}C$					
Insulation		130 m	nm Non CFC, foamed ir	n place polyurethane wi	th VIP		
Electrical			110V, 220V 60	Hz, 230V 50Hz			
Certification		ISC	09001 / ISO14001 / ISO	013485 / CE / KGMP / E	ETL		
Weight (kg)	256	279	307	340	378	410	
Refrigeration		2 x 1.25 HP					
2" Cryo Boxes	15 boxes x 12 racks	15 boxes x 16 racks	20 boxes x 16 racks	20 boxes x 20 racks	20 boxes x 24 racks	25 boxes x 24 racks	
3" Cryo Boxes	9 boxes x 12 racks	9 boxes x 16 racks	12 boxes x 16 racks	12 boxes x 20 racks	12 boxes x 24 racks	15 boxes x 24 racks	
2" Boxes/Freezer	192 boxes	264 boxes	352 boxes	440 boxes	528 boxes	660 boxes	

\*Voltage range: 110V(100-120), 220V(208-230), 230V(220-240)

### ILSHIN + UPRIGHT Series -35°C

Series	DF3510	DF3514	DF3517	DF3520	DF3524	DF3530
Capacity	276 liters	369 liters	484 liters	605 liters	730 liters	832 liters
Ext. Dimensions (WxDxH mm)	920 x 805 x 1660	920 x 805 x 1980	920 x 955 x 1980	1070 x 955 x 1980	1070 x 1065 x 1980	1350 x 955 x 1980
Int. Dimensions (WxDxH mm)	600 x 480 x 970	600 x 480 x 1290	600 x 630 x 1290	750 x 630 x 1290	750 x 755 x 1290	1030 x 630 x 1290
Temperature Range (ºC)	$-10^{\circ}C \sim -35^{\circ}C$					
Insulation		130 m	nm Non CFC, foamed ir	n place polyurethane wi	th VIP	
Electrical			110V, 220V 60	Hz, 230V 50Hz		
Certification			ISO9001 / ISO14001 /	ISO13485 / CE / KGMF	)	
Weight (kg)	212	233	260	291	326	360
Refrigeration	1 x 1.25HP					
2" Cryo Boxes	15 boxes x 12 racks 15 boxes x 16 racks 20 boxes x 16 racks 20 boxes x 20 racks 20 boxes x 24 racks 25 boxes x 24 rack					
3" Cryo Boxes	9 boxes x 12 racks	9 boxes x 16 racks	12 boxes x 16 racks	12 boxes x 20 racks	12 boxes x 24 racks	15 boxes x 24 racks
2" Boxes/Freezer	192 boxes	264 boxes	352 boxes	440 boxes	528 boxes	660 boxes

### ILSHIN + UPRIGHT Series -86°C

Series	DF8510	DF8514	DF8517	DF8520	DF8524	DF8530
Capacity	276 liters	369 liters	484 liters	605 liters	730 liters	832 liters
Ext. Dimensions (WxDxH mm)	920 x 805 x 1660	920 x 805 x 1980	920 x 955 x 1980	1070 x 955 x 1980	1227 x 957 x 1980	1227 x 985 x 1980
Int. Dimensions (WxDxH mm)	600 x 480 x 970	600 x 480 x 1290	600 x 630 x 1290	750 x 630 x 1290	890 x 635 x 1290	890 x 725 x 1290
Temperature Range (ºC)		$-60^{\circ}C \sim -90^{\circ}C$				
Insulation		130 m	nm Non CFC, foamed ir	n place polyurethane wi	th VIP	
Electrical			110V, 220V 60	Hz, 230V 50Hz		
Certification		ISC	09001 / ISO14001 / ISC	) 13485 / CE / KGMP / E	ETL	
Weight (kg)	240	262	289	320	355	390
Refrigeration		2 x 1.25HP (1 x 1.25HP)				
2" Cryo Boxes	15 boxes x 12 racks 15 boxes x 16 racks 20 boxes x 16 racks 20 boxes x 20 racks 20 boxes x 24 racks 25 boxes x 24 rack					
3" Cryo Boxes	9 boxes x 12 racks	9 boxes x 16 racks	12 boxes x 16 racks	12 boxes x 20 racks	12 boxes x 24 racks	15 boxes x 24 racks
2" Boxes/Freezer	192 boxes	264 boxes	352 boxes	440 boxes	528 boxes	660 boxes

\*Feature in parenthesis is optional and selectable by customer.

### **ILSHIN-CHEST** Series

Series	DF4510	DF4517	DF9010	DF9017	DF12010	
Capacity	295 liters	295 liters	295 liters	492 liters	295 liters	
Ext. Dimensions (WxDxH mm)	1590 x 790 x 1030	2180 x 790 x 1030	1590 x 790 x 1030	2180 x 790 x 1030	1590 x 790 x 1030	
Int. Dimensions (WxDxH mm)	870 x 500 x 670	1470 x 500 x 670	870 x 500 x 670	1470 x 500 x 670	870 x 500 x 670	
Temperature Range (ºC)	-10°C	~ -45°C	$-40^{\circ}C \sim -90^{\circ}C$		$-80^{\circ} \sim -120^{\circ}$	
Insulation		130 mm Non CFC, foamed in place polyurethane with VIP				
Electrical		1	10V , 220V 60Hz , 230V 50H	Ηz		
Certification	ISO9001 / ISO 140	01 / ISO 13485 / CE	ISO9001	/ IS014001 / IS013485 / C	E / KGMP	
Weight (kg)	207	257	236	286	280	
Refrigeration	1 x 1	25HP	2 x 1	.25HP	2 x 1.5HP	
2" Cryo Boxes	12 boxes x 18 racks	12 boxes x 30 racks	12 boxes x 18 racks	12 boxes x 30 racks	12 boxes x 18 racks	
3" Cryo Boxes	8 boxes x 18 racks	8 boxes x 30 racks	8 boxes x 18 racks	8 boxes x 30 racks	8 boxes x 18 racks	
2" Boxes/Freezer	216 boxes	360 boxes	216 boxes	360 boxes	216 boxes	

#### **PERSONAL** Series

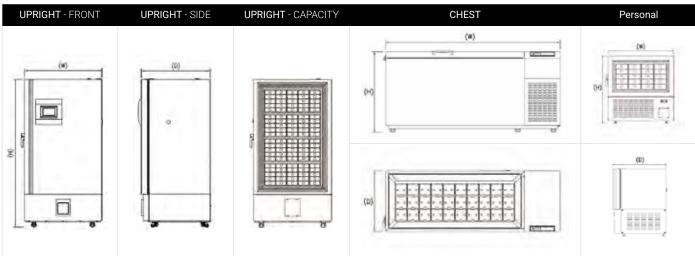
Series	DF8502	DF8503
Capacity	40 liters	80 liters
Ext. Dimensions (WxDxH mm)	470 x 620 x 780	770 x 620 x 780
Int. Dimensions (WxDxH mm)	300 x 440 x 300	600 x 440 x 300
Temperature Range (°C)	-60°C ~	~ -80°C
Insulation	High Density poly	urethane with VIP
Electrical	110V, 220V 60	Hz, 230V 50Hz
Certification	ISO9001 / 14001 /	13485 / CE / ETL
Weight (kg)	79	99
Refrigeration	3/8 HP	5/8 HP
2" Cryo Boxes	15 box x 2 racks	15 box x 4 racks
3" Cryo Boxes	9 box x 2 racks	9 box x 4 racks
2" Boxes/Freezer	30 boxes	60 boxes

### **QUICK FREEZER**

QUICK FREEZER	
Series	QDF4517
Capacity	484 liters
Ext. Dimensions (WxDxH mm)	920 x 955 x 1980
Int. Dimensions (WxDxH mm)	600 x 630 x 1290
Temperature Range (°C)	$-10^{\circ}C \sim -40^{\circ}C$
Insulation	130 mm Non CFC, foamed in place polyurethane with VIP
Electrical	380V, 3Ph, 60Hz
Certification	ISO9001 / 14001 / 13485 / KGMP
Weight (kg)	307
Refrigeration	5 HP
Drawers/Freezer	total 11 Drawers

\*Voltage range: 220/380V, 3Ph, 50/60Hz

### **DIMENSIONS & STORAGE CAPACITY** Preview



\*Stainless steel option: All models have the option for a stainless steel interior. Please add "S" behind the model number to order stainless steel interior, (for example DF 8524S)

# CONFIGURATION

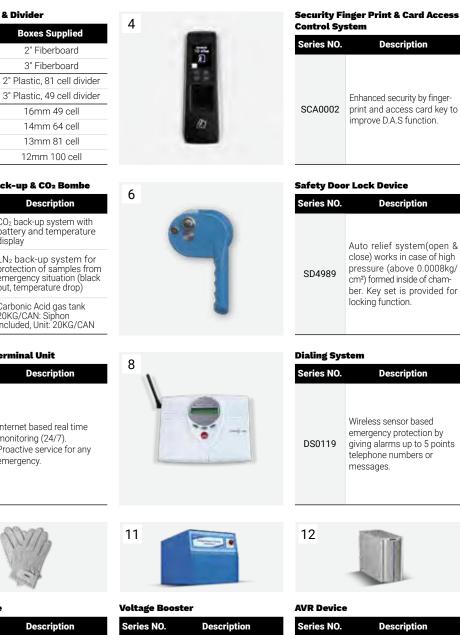
for FREEZER SYSTEM



# ACCESSORIES for FREEZER SYSTEM

### **Rack Series**

Nuon Jones			
Item NO.	Boxes Size	Quantity	Purpose
CR0060	2"	12	for Chest Freezer
CR0061	3"	8	Tor Chest Freezer
SR0062	2"	15	Upright Freezer
SR0063	3"	9	xx02, xx03, xx10, xx14
SR0064	2"	20	Upright Freezer
SR0065	3"	12	xx17, xx20. xx24
SR0066	2"	25	Upright Freezer xx30
SR0067	3"	15	





Series NO.

FB0060

FB0061

PP0060

PP0061

DV0049

DV0064

DV0081

DV0100







02 / LN2 Back-up & CO2 Bombe			
Series NO.	Description		
LC0070	CO <sub>2</sub> back-up system with battery and temperature display		
LN0070	LN <sub>2</sub> back-up system for protection of samples from emergency situation (black out, temperature drop)		
CO2000	Carbonic Acid gas tank 20KG/CAN: Siphon included, Unit: 20KG/CAN		

**Boxes Supplied** 

2" Fiberboard

3" Fiberboard

16mm 49 cell

14mm 64 cell

13mm 81 cell

12mm 100 cell

### **Black Box Terminal Unit**

10

Series NO.	Description
BBD1000	Internet based real time monitoring (24/7). Proactive service for any emergency.

9

Chart Recorder	
Series NO.	D

7

Series NO.	Description
CH0067	Temperature recorder. 24/7 day circular chart recorder

Safety Glove			
Series NO.	Description		
GL0005	Protection from frost bite		

Voltage Booster			
Series NO.	Description		
VB0081	Boosting voltage under low voltage environment (AC15V)		

Series NO.	Description
AVR0003 AVR0005	Regulating voltage supply under unstable voltage environment

# REFRIGERATOR BLOOD BANK

BB0123, 0150 SERIES

## [BLOOD BANK]

Introducing Blood Bank complying with medical instrument regulation, with reliability by precise Micro-process control and comfortable space with easy handling drawers, this is essential solution for blood storage with ultimate credibility.



## **Main Features**

**BLOOD BANK SERIES** 



# Carrying sample with it **1. REMOVEABLE RAIL DRAWER**

Inner space is separated by compartment, available for classified storage of various blood backs. Air holes at the bottom of each drawer allow effective air circulation. Removable drawer is convenient for sample transfer with minimal door open time.

Maintain temperature by two fan system
2. AIR CIRCULATION SYSTEM

Built-in two fans keep strong circulation and quickly recover target temperature even after numerous times of door open.



# **REFRIGERATOR** PHARMACEUTICAL

CC0123, 0150 SERIES

## [PHARMACEUTICAL REFRIGERATOR]

CC series with strong refrigeration system is optimal for safe storage of reagents and pharmaceutical products such as vaccines that require regulated storage compliance. CC series comply with high standard medical grade requirements.

High quality stainless steel exterior/interior prevents from any chance of contamination. Stable management on temperature by micro-process controller is the essence of CC series and low noise and convenient user interface are other advantages. Visibility on temperature variation, blackout and voltage problem and various event/alarm features enhance safety of your storage.



## **Main Features**

PHARMACEUTICAL SERIES

## Up and down as you wish

## **1. REMOVABLE COATING SHELF**

Storage compartment is adjustable by removable shelves for various heights of container. Every shelf has air circulation holes for keeping temperature uniformity.

Safety for you without hazardous chemical!

## 2. HAZARDOUS CHEMICAL REMOVER DEVICE

Specially designed device removes all unpleasant smells and hazardous chemicals for keeping comfortable working environment.



## **DETAIL & FEATURES REFRIGERATOR SERIES**

#### Rail type air hole drawer

Cold air can pass through the holes of drawer from the top to bottom for keeping uniform temperature inside of chamber. Removable drawer is convenient for sample transfer with minimal door open time.

#### Air circulation system

Built-in two fans keep strong circulation and quickly recover target temperature even after numerous times of door open.



### Inner light

Light is controlled by button to enhance visibility of chamber inside.



### **Control system**

Digital sensor control by Micro-processor for temperature and alarm setup.











**Chart recorder** 

temperature variation.



Deodorizer

Record keeping for verification of Comfortable work environment by removing unpleasant smell and hazardous chemicals.

# **SPECIFICATIONS**

**REFRIGERATOR SERIES** 

Series	BB0123	BB0150		DIMENSIONS Preview
Capacity	557 liters	1251 liters		- Front -
Ext. Dimensions (WxDxH mm)	740 x 830 x 1910	1500 x 830 x 1910		(w)
Int. Dimensions (WxDxH mm)	610 x 630 x 1450	1370 x 630 x 1450	1	
Weight (kg)	135	221		
Drawer	6 EA solid stainless slide drawers	12 EA solid stainless slide drawers		terrerrert.
Door	1 Double-paned tempered glass doors	2 Double-paned tempered glass doors		
Temperature Range	Temperature is factory set at $4^{\circ}$ C with a $0^{\circ}$ C ~10 $^{\circ}$ C		(H)	Hennesseerb
Material	Interior all stainless steel			
Electrical	110V, 220V 60Hz, 230V 50Hz			
Certification	ISO9001 / 14001 / 13485 / KGMP			4
Refrigeration	1/3 HP Hermetic comp		-	Lana and the second

### **PHARMACEUTICAL** Series

Series	CC0123	CC0150	<b>DIMENSION</b> Preview
Capacity	557 liters	1251 liters	- Side -
Ext. Dimensions (WxDxH mm)	740 x 830 x 1910	1500 x 830 x 1910	(D).
Int. Dimensions (WxDxH mm)	610 x 630 x 1450	1370 x 630 x 1450	1
Weight (kg)	119	173	- H.
Drawer	4 EA	8 EA	ET etterate
Door	1 Double-paned tempered glass doors	2 Double-paned tempered glass doors	Francis
Temperature Range	Temperature is factory set at $4^{\circ}$ C with a $0^{\circ}$ C ~13°C		F FREE FR
Material	Interior all stainless steel		FI
Electrical	110V, 220V 60Hz, 230V 50Hz		F C7
Certification	ISO9001 / 14001 / 13485 / KGMP		E Tree C Dara
Refrigeration	1/3 HP Hermetic comp		

# ICE MAKER

## [ICE MAKER]

Flake type ice maker has automatic water supply system and overflow protection system. Purification filter with NSF certificate guarantees maximum safety and convenience. Twin screw design provides prompt and uniform ice flake.

## **Main Features**

ICE MAKER

## Specification

### 1. Dimension:

- 1) Ext: 700(W) × 700(D) × 975(H) mm 2) Int: 600(W) × 300(D) × 500(H) mm
- **2. Production capacity:** 120Kg/Day
- 3. Storage capacity: 90Kg
- 4. Production method: revolution of twin screw shaft mechanism

#### 5. Refrigeration system:

- 1) Compressor: 1/3Hp, Hermetic type
- 2) Condenser: forced circulation, air cooled 1/3Hp motor condensing
- 6. Shaft RPM: 20RPM

#### 7. Material:

- 1) Body: high pressure injected Urethane, blower forming
- 2) Door: high pressure injected Urethane
- 8. Insulation: 50mm polyurethane
- 9. Voltage: 220 Voltage, 60Hz, single phase

### Characteristic

 Flake type ice produced by Twin screw shaft mechanism is optimal and economical for laboratory use because ice particle stays for a long time.



- 3. Easy and convenient operation by one touch control.
- **4.** Overload protection against incoming current, self control on water supply and overflow.
- 5. Anti-corrosion design by HDPE interior
- 6. ISO 9001
- 7. ISO 14001

Storage Box & Divider		
Model	IF300-150	
Capacity	90 kg	
Ice Production	120 kg/day	
Ext. Dimensions	700(W) x 700(D) x 975(H) mm	
Int. Dimensions	600(W) x 300(D) x 500(H) mm	
Cabinet Material	Blower Molded (HDPE)	
Electrical	220V 60Hz, 230V 50Hz	
Refrigeration	1/3 HP/Non CFC	
Weight	114 kg	

## **DETAIL & FEATURES** ICE MAKER



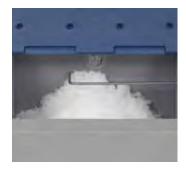
High performance freezing system

Superior device and screws produce highly purified flake type ice as hard particles.

Automatic system from water supply to ice production

Self control of water supply and its level, protecting from overflow.





**Automatic Ice Control System** 

Ice amount is controlled by sensor for protecting from over-production.



Twin screw shaft mechanism

flake ice with uniformity.

Fast and efficient production of

#### High standard purification filter

Water is filtered for high level purification and longer life time of equipment.

#### Adiabatic effects of bin storage

Combination of high density polyethylene and polyurethane provide effective insulation for keeping ice flake with best condition.







## LAF Technologies Pty Ltd

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A Accredited Laboratory



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