









MEDICAL REFRIGERATION RANGE

RELIABLE STORAGE. EXCEPTIONAL CONTROL.



With over seven decades of experience, Blue Star, India's leader in air conditioning and refrigeration solutions brings diverse commercial refrigeration products and solutions to cater to the needs of customers. Be it a hotel, school, university hostel or eatery, hospital, research institute or blood bank laboratory, our products serve as impeccable solutions every single time. To preserve food and keep it fresh for a long time, we bring you cutting-edge products like Reach-in Chillers and Freezers, Undercounter Chillers and Freezers, Modular Cold Rooms, Deep Freezers and Bottle Coolers. To cool water fast, we have the widest range of Storage Water Coolers on offer. These water coolers are available with different types of purification options. With reliable refrigeration design, every product has been tested to perform in high ambient conditions.

Blue Star now brings you a range of freezers and refrigerators, with low and ultra low temperature settings, for scientific and medical applications.

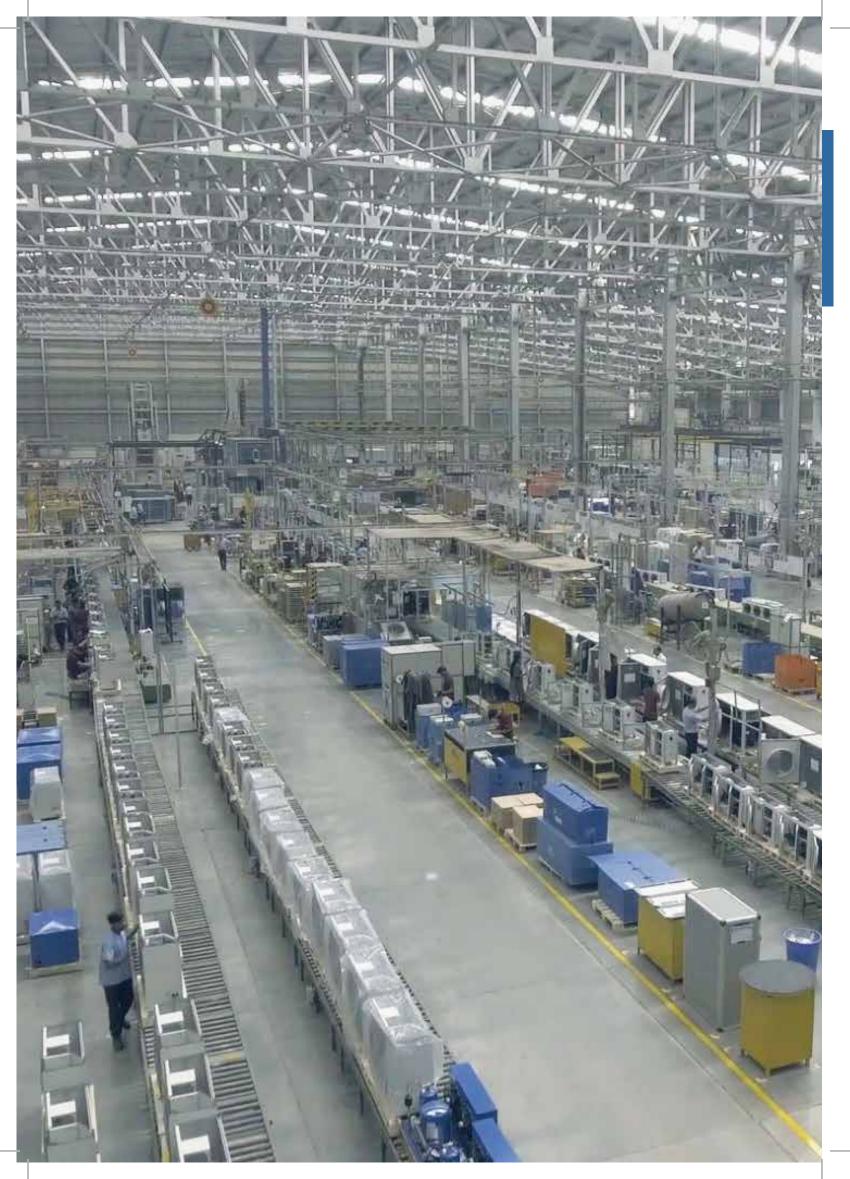
Our entire range of refrigeration products meets high quality ISO standards to comply with today's hygiene and sanitary regulations. To meet the requirements of customers across the spectrum, Blue Star offers multiple models under each product category.



# AT BLUE STAR 'QUALITY IS A WAY OF LIFE'

At Blue Star, our belief in quality is more than just a policy. Commitment to quality remains our highest priority as we continually strive to improve products and solutions time after time.

We adhere to one of the most stringent quality checks when manufacturing for the Commercial Refrigeration industry, which are backed by relevant certifications, registrations and compliances from internationally acclaimed bodies.



# WORLD-CLASS MANUFACTURING

Blue Star's foray into manufacturing began in the 1940s from a small office in Forbes Street in Colaba, Mumbai. In the mid-1960s, we expanded our manufacturing base with a factory in Thane, Mumbai.

Today, Blue Star runs world-class manufacturing facilities at Dadra, Himachal Pradesh, Wada and Ahmedabad. With modern, state-of-the-art manufacturing technologies and equipment adhering to global quality standards and manufacturing processes, we have been developing products both for India and international markets with consistent quality and reliability.

Our manufacturing footprint is now about 1Lakh sq.mt. with over 300 models across 25 product lines.



Wada

Himachal Pradesh



Dadra



Ahmedabad



Wada factory



Panel punching machine

### **CERTIFICATIONS**

Our manufacturing facility at Wada, India has been awarded a Green Building Certification for being eco-friendly and zero polluting.

All our manufacturing facilities are also ISO 9001:2008 quality certified for the entire manufacturing and product output process.











### **RESEARCH & DEVELOPMENT**

Blue Star is one among the few pioneers to have introduced advanced technology and applications in Indian market.



As a philosophy, we focus on Digital Technology and Sustainability, with continuous investments and focused efforts in R&D. Backed by a new-age infrastructure, we take pride in having one of the best R&D centres in the Indian Commercial Refrigeration industry. Our R&D facility is recognised by the Department of Scientific & Industrial Research (DSIR), Government of India.

The R&D division caters to our Indian and global businesses while also designing products as an original design manufacturer (ODM) for several international brands. Significant investments have been made in building performance and reliability labs, virtual modelling and virtual performance testing software among other technologies. Our chiller test labs are AHRI certified and NABL-accredited with regard to room air conditioners and ducted systems.

We have six registered designs and have applied for 30 patents. Our technical capabilities are recognised by the policy making departments of the Government of India, and we play a vital role in developing standards for energy efficiency and safety, thereby representing the industry across national and international forums. In other words, R&D is always an integral part of our products business.







The R&D facility also has psychrometric test facilities to conduct performance tests in line with international testing standards.

### **ENSURING AN EXCELLENT FINISH**

Our production facilities use raw materials that meet the highest quality standards. The equipment used to process the steel include CNC machines such as the Amada punch press, hydraulic press and specialised microprocessor-based protection and resistance welders. All these machines ensure superior quality, in cabinet fabrication with tight tolerances.

### AFTER-SALES SUPPORT - BLUE STAR CARE

We set the standard for modern after-sales services, to ensure that you get the longest lifespan and best performance out of your products. BLUE STAR CARE is tailored to meet customer needs and deliver a world-class customer experience.

### BENEFITS OF BLUE STAR CARE



Wide Service Network

With over 500+ authorised service centres spread across the country, our customer care network assures you timely service for every call.



24 x 7 Customer Call Centre

Simply call 1800 209 1177 or 1860 266 6666 or SMS "Service" to 57575, or mail your queries to customerservice@bluestarindia.com at any time of the day (or night). We vouch for immediate registration of complaints, a committed response as well as a resolution to your refrigeration issues.



#### Technical Competence

With both the right knowledge and modern-day methods of service, we ensure you're offered expert resolutions to technical issues faced with your air conditioners.



#### Mobile App

Raise a service call in under '10 seconds' through the mobile application. Our field executives are notified about your service requests and come back to you with a solution before closing the service call over the mobile app post your approval on the issue being put to rest.



### Service On Wheels

The availability of 100+ service crew vehicles ensure easy access to reliable after sales services.

### -86°C ULTRA LOW TEMPERATURE FREEZERS (SINGLE DOOR)

The -86°C Ultra low freezer is used for low temperature scientific experiments, preservation of red blood cells, white blood cells, skin, DNA/RNA, bone, bacteria, semen, biomedical products, ocean products, electronic devices, and low-temperature testing of special materials. It is suitable for blood banks, hospitals, sanitation and anti - epidemic stations, electronic industries, university laboratories, military industries, pelagic fishery companies.

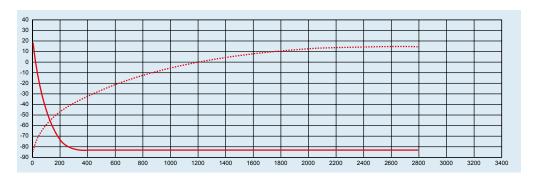
### **CONTROL SYSTEM**

- Temperature control ranges between -40°C and -86°C that can be set freely
- Temperature control is precise to 1°C
- Along with a digital temperature display, it has a keyboard lock and a password protected configuration page
- The freezer has a delayed start and safe stop interval between restart and being terminated
- Equipped with audio and video alarms, such as: High or Low Temperature alarm, Power Failure alarm, Low Battery alarm, Door Open alarm, Filter Blocking alarm and System Failure alarm

- Stainless steel interior. Painted steel panel exterior. And 4 casters for easy handing
- The front opening lockable door comes with a handle for easy accessibility as well as a vacuum release port
- · Adjustable stainless-steel shelves with inner insulation doors and double silicon gasket seal
- Two-times foaming technology with 120mm foaming insulation as well as a VIP insulation board
- Comes with USB storage functions
- Optional additions include: chart recorder, CO2 back up system, storage racks/boxes and remote alarm system



### Temperature



### **Control System**

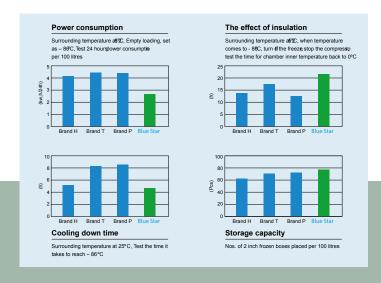


### **Cooling System**



# Optional System



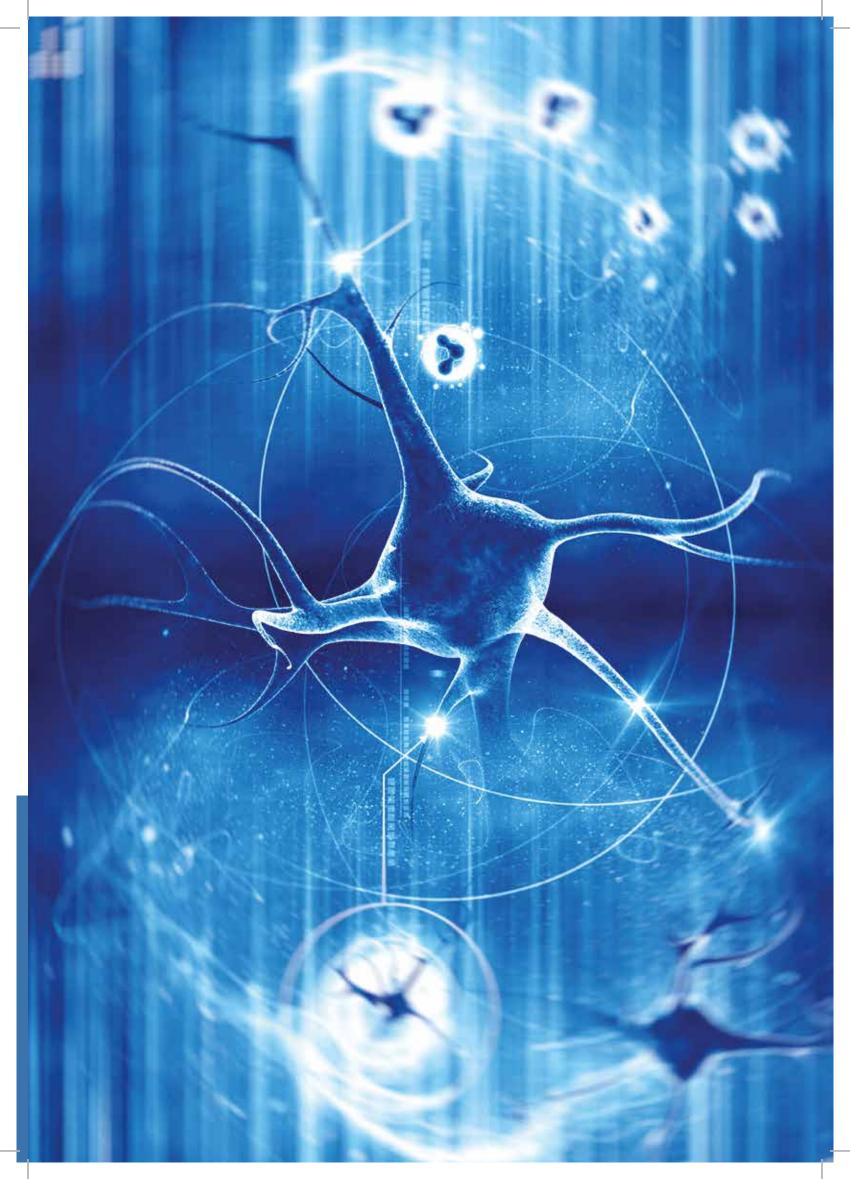


### **REFRIGERATION SYSTEM**

- It is fitted with a popular imported compressor
- Makes lesser noise and has reduced power consumption
- Comes with an internationally acclaimed German EBMs fan electromotor
- Uses a patented technology of mixture refrigerant

MODEL	CADACITY (I)	INDUT DOWED	EXTERNAL SIZE	INTERNAL SIZE	WEIGHT	RACKS	MAX VIALS
MODEL	CAPACITY (L)	INPUT POWER	(WxDxH) mm	(WxDxH) mm	(Net)	(5x5)	(5x5)
DW-HL100	100	850W	1066x742x820	450x439x514	145Kg		5460
DW-HL218	218	950W	840x940x1552	470x570x767	205Kg	6	12000
DW-HL388	388	980W	842x989x2023	510x590x1254	245Kg	12	30000
DW-HL538	538	1050W	842x989x2023	662x600x1344	298Kg	16	40000
DW-HL668	668	1300W	1090x1025x1955	750x696x1286	330Kg	20	50000
DW-HL768	768	1400W	1205x1025x1955	865x696x1286	380Kg	24	60000
DW-HL828	828	1550W	1217x1025x2005	877x696x1378	390Kg	24	69000
DW-HL1008	1008	1900W	1362x1025x2002	1022x696x1378	430Kg	28	80500







### -86°C ULTRA LOW TEMPERATURE FREEZERS (CHEST MODELS)

### **CONTROL SYSTEM**

- Temperatures between -10°C  $\sim$  -86°C can be set freely
- Each room can be controlled independently with the double microprocessor-based temperature controller
- Temperature control is precise to 1°C
- Along with a digital temperature display, it has a keyboard lock and a password protected configuration page
- The freezer has a delayed start and safe stop interval between restart and being terminated
- Equipped with audio and video alarms, such as: High or Low Temperature alarm, Power Failure alarm, Low Battery alarm, Door Open alarm, Filter Blocking alarm and System Failure alarm
- The temperature recorder records 7 days of data. The 72 hour back up battery powers the recorder and controller

- Stainless steel interior. Painted steel panel exterior. And 4 casters for easy handing
- The top door comes with a key lock
- Two-times foaming technology with a double seal design
- 155mm extra thickness heat insulation
- Optional: Chart recorder, CO2 back up, storage racks/boxes and remote alarm system



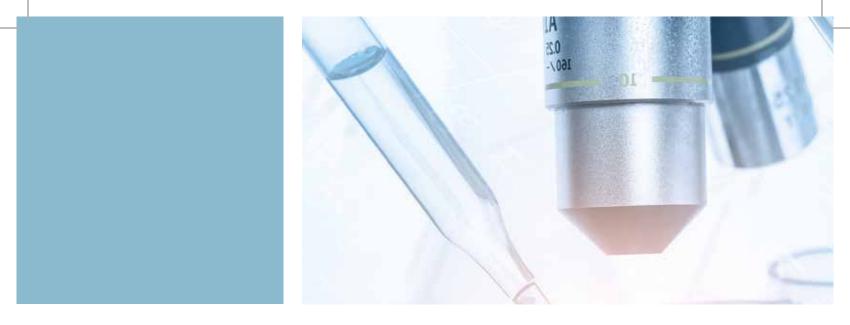


# **REFRIGERATION DESIGN**

- The Ultra Low Temperature Freezer has a unique refrigeration circulation system
- Comes with an internationally acclaimed famous German EBMs fan electromotor
- Comes with unipolar compressor oil-lubricated technology
- Uses a patented technology of mixture refrigerant

MODEL CA	CAPACITY (L)	INPUT POWER	EXTERNAL SIZE	INTERNAL SIZE	WEIGHT	RACKS	MAX VIALS
MODEL	MODEL CAPACITY (L) INPUT PO	INPUT POWER	(WXDXH) mm	(WXDXH) mm	(Net)	(5x5)	(5x5)
DW-HW138	138	860W	1320x890x1009	490x470x570	205Kg	9	9000
DW-HW328	328	1050W	2005x890x1009	1200x470x570	280Kg	24	4000
DW-HW438	438	1500W	2005x890x1009	1270x590x540	296Kg	30	30000
DW-HW668	668	2100W	2033x1190x1037	1200x815x610	330Kg	40	40000





# -40°C LOW TEMPERATURE FREEZERS (UPRIGHT MODELS)

### **CONTROL SYSTEM**

- The temperature control range is adjustable between -10 $^{\circ}$ C  $\sim$  -40 $^{\circ}$ C
- Uses a microprocessor-based temperature controller
- Temperature control is precise to 1°C
- Along with a digital temperature display, it has a keyboard lock and a password protected configuration page
- The freezer has a delayed start and safe stop interval between restart and being terminated
- Equipped with audio and video alarms, such as: High or Low Temperature alarm, Power Failure alarm, Low Battery alarm, Door Open alarm, Filter Blocking alarm and System Failure alarm (DW-FL531)
- The temperature recorder records 7 days of data. The 72 hour backup battery powers the recorder and controller (DWFL531)

- The Upright Freezers Types has a stainless-steel interior (DW-FL450 is ABS material)
- The outer is a painted steel panel with 100mm foaming insulation (DW-FL531)
- · Casters for easy handing
- Three adjustable stainless steel shelves with inner doors and a double silicon gasket seal. (DW-FL450 models has drawers inside)
- Optional: Chart recorder, CO2 back up, storage racks/boxes and remote alarm system.

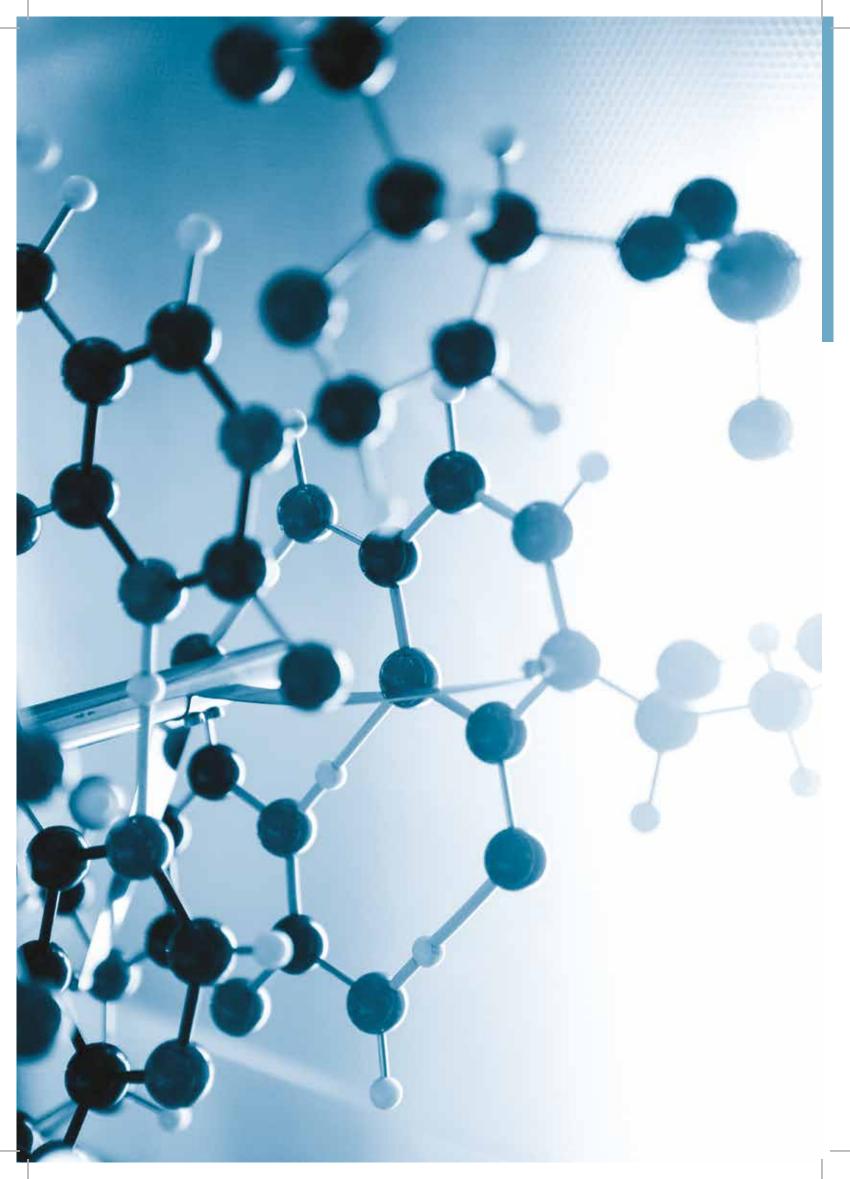


# **REFRIGERATION SYSTEM**

- The popular imported compressor lowers noise and power consumption
- Has a unique refrigeration circulation
- Uses a unipolar compressor with oil-lubricated technology

MODEL	MODEL CAPACITY (L)		EXTERNAL SIZE	INTERNAL SIZE	WEIGHT
MODEL			(WXDXH) mm	(WXDXH) mm	(Net)
DW-FL450	450	650W	780x660x1850	515x515x1350	136Kg
DW-FL531	531	1250W	842x989x1999	662x600x1345	250Kg





# -25°C DEEP FREEZERS (UPRIGHT MODELS)

### **CONTROL SYSTEM**

- Uses a microprocessor-based temperature controller
- The temperature control range is adjustable between -10°C to -25°C
- It has a digital temperature display
- Equipped with audio and video alarms, such as: High or low temperature alarm and System Failure alarm

### STRUCTURAL DESIGN

- The Upright Freezer type comes with an ABS make interior. Its outer body is a painted steel board
- The door comes with a handle and a safety lock on it
- There are casters provided for easy handing
- Its inner drawers are made of plastic

### REFRIGERATION SYSTEM

- Comes equipped with a reputed, branded compressor and fan motor.
- Double compressor to control each chamber room separately (available only in DW-YL450)

MODEL	CAPACITY (L)	INPUT POWER	EXTERNAL SIZE (WXDXH) mm	INTERNAL SIZE (WXDXH) mm	DRAWER QTY. (PC)	WEIGHT (Net)
DW-YL270	270	370W	600x610x1750	435x410x1545	7	69Kg
DW-YL450	450	450W	780x660x1850	515x515x1350	12	128Kg



DW-YL270



DW-YL450

# 2°C~8°C and -10°C~-25°C COMBINED REFRIGERATOR & FREEZER

# CONTROL SYSTEM

- Each room can be controlled independently with the double microprocessor-based temperature
- Temperatures in the upper room can range between 2°C-8°C
- Temperatures in the lower room can range between -10°C~-25°C
- The LCD display clearly displays the temperature information
- Equipped with audio and video alarms, such as: High or Low temperature alarm and System Failure alarm

- In the Upright Model Type, the outer body is a painted steel panels and the interior is ABS material
- The double sealing design comes with a lock
- There is a rotatable sure-grip door handle
- The upper room comes with shelves and the lower room comes with plastic drawers





# REFRIGERATION SYSTEM

- The double compressor allows separate room temperature control
- PUF insulation with better thickness

MODEL	MODEL CAPACITY (L)		INPUT POWER	EXTERNAL SIZE	INTERNAL SIZE	WEIGHT
MODEL	CAPACITY (L)	TEMPERATURE	INPUT POWER	(WXDXH) mm	(WXDXH) mm	(Net)
YCD-EL450	Upper: 225 Lower: 225	2ºC-8ºC -10ºC~-25ºC	340W	780x670x1850	Upper: 515x640x675 Lower: 515x640x675	125Kg



### 2°C~8°C MEDICAL REFRIGERATORS (LARGE MODELS)

The Medical Refrigerator is a special refrigerating equipment for cold storage of pharmaceuticals as well as biological products. It is suitable for hospitals, drugstores, pharmaceutical factories, sanitation and anti-epidemic stations and clinics.

### **CONTROL SYSTEM**

- · Comes with a microprocessor-based controller
- Temperature control ranges between +2°C to +8°C that can be set freely
- Temperature control is precise to 1°C
- Accurate temperature display precisely to 0.1°C decimal level
- Combined with two exact sensors and an auto defrost function
- With its temperature recorder, it records 7 days of data. It also has a 72 hour backup battery for recorder and controller work(YC-330, YC-520, YC-968 & YC-1500)
- Equipped with audio and video alarms, such as: High or Low temperature alarm, Door Open alarm, Power Failure alarm, Sensor Failure alarm and Low Battery alarm

- The Upright Refrigerator Type has an interior and exterior all made from stainless steel (YC-260 & YC-300 is made from ABS material)
- Casters are mounted under the bottom for easy handling
- The two-layer glass door with heater switch prevents ice leaks and is lockable
- · Interior fluorescent lighting gives clear visibility
- Adjustable shelves made of quality steel wire
- Optional additions include: chart recorder and remote alarm system

# **REFRIGERATION SYSTEM**

- Uses an internationally acclaimed German EBMs fan electromotor
- Has a forced air circulation system
- $\bullet\,$  The highly effective condenser and expansive evaporator provide quick freezing

MODEL	MODEL CAPACITY (L)	INDUT DOWER	EXTERNAL SIZE	INTERNAL SIZE	NO OF SHELF	WEIGHT
MODEL CAPACITY (L)	CAPACITY (L)	INPUT POWER	(WXDXH) mm	(WXDXH) mm	(UNIT)	(Net)
YC-260	260	215W	590x603x1556	445x525x1070	4	80Kg
YC-300	300	215W	590x603x1728	445x530x1265	5	90 Kg
YC-330	330	235W	570x693x1940	487x545x1403	4	100Kg
YC-520	520	460W	710x840x1980	590x675x1445	5	120Kg
YC-968	968	650W	1200x798x1965	1080x630x1420	8	180 Kg
YC-1500	1500	960W	1800x798x1965	1680x640x1420	12	240Kg









YC-968 YC-1500

YC-260/300

YC-330/520



# 2°C~8°C MEDICAL REFRIGERATORS (COMPACT MODELS)

### **CONTROL SYSTEM**

- The forced-air cooling circulation system ensures the temperature recovers rapidly and reliably
- The air-cooled, chiller finned evaporator with its unique circulation system is designed to ensure it is frost-free
- The precise microprocessor enables easy temperature control with set range of 2°C to 8°C
- Comes with a digital temperature display, with a temperature resolution of 0.1°C
- Comes with an optional monitoring module and exclusive software to realize remote monitoring

- Equipped with audio and video alarms, such as: High and Low temperature alarms, Sensor Failure alarm, Power Failure alarm and Door Open alarm
- Comes with two different alarm style options: buzzing and flashing
- The glass door comes with heater. Alternately also available with a solid door  $\,$
- Two sensor design, allowing one to work independently if the other is damaged
- Optional addition: A thermal printer temperature recorder and USB data download functions



# **HUMANIZED DESIGN**

- Safety lock design prevents any abnormal door status
- Big screen display allows easy reading
- Comes with an optional test hole
- LED light equipped with switch to control

MODEL	CADACITY (I)	INPUT	EXTERNAL SIZE	TEMPERATURE	CLIMATE TYPE	WEIGHT
MODEL	CAPACITY (L)	POWER	(WXDXH) mm	(°C)	CLIMATETYPE	(Net)
YC-45	45	60W	430x450x585	2~8	N	15Kg
YC-55	55	70W	470x450x707	2~8	N	21Kg
YC-75	75	70W	470x450x925	2~8	N	25Kg
YC-105	105	80W	505x525x925	2~8	N	28Kg







### 4±1°C BLOOD BANK REFRIGERATORS

### **CONTROL SYSTEM**

- Large LCD screen display of temperature accurate to +/- 0.1°C
- Automatic temperature control with an automatic defrost
- Equipped with audio and video alarms, such as: High or Low temperature alarm, Door Ajar alarm, System Failure alarm, Power Failure alarm, Low Battery alarm and Sensor Failure alarm.

### STRUCTURAL DESIGN

- The Upright model Type has an exterior made from a painted steel plate
- · Interior is made of stainless steel
- Casters are mounted under the bottom
- The three-layer glass door with a heater around it prevents ice leaks and is lockable
- Interior fluorescent light with switch control
- Inner SS Drawers: 3 units for XC-88L, 4 units for XC-268L, 5 units for XC-358L, 6 units for XC-588L, 8 units for XC-950L
- Comes with temperature recorder for 7 days of data recording
- Optional additions include: chart recorder and blood storage basket

### REFRIGERATION SYSTEM

- Forced air circulation system
- Comes fitted with an internationally acclaimed German EBMs fan electromotor
- The high-effective air-cooled condenser and the fin-type evaporator provides optimum refrigeration



MODEL CAPACITY (L)	CITY (L) INPUT POWER -	EXTERNAL SIZE	INTERNAL SIZE	BLOOD CAPACITY	WEIGHT	
		(WXDXH) mm	(WXDXH) mm	(450ml/Bag)	(Net)	
XC-88	88	433W	450x550x1505	340x410x780	50bags	100Kg
XC-268	268	476W	641x640x1720	518x473x1043	120bags	156Kg
XC-358	358	540W	628x698x1940	518x507x1400	200bags	168Kg
XC-588	588	605W	800x760x1940	650x607x1403	300bags	200Kg
XC-950	950	650W	780x1200x1894	600x1100x1400	450bags	250Kg



XC-358





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**24X7 CUSTOMER CARE** (Toll Free) 1800 209 1177 1860 266 6666

For more information, please contact **BLUE STAR LIMITED · Ahmedabad:** 301 & 302, (3rd floor), Abhishree Avenue, (Near) Nehru Circle, SM Road, Ambawadi, Ahmedabad - 380015. Tel: (079) 40224000 • **Bengaluru:** Anjuman Kay A R R Tower, No 28, Ward No 77, Mission Road, Bengaluru - 560027. Tel: +91 (80) 4185 4000 • **Bhubaneshwar:** 3A Satya Nagar, 2nd floor, Bhubaneshwar - 751007. Tel: (0674) 2572403/2573670 • **Chandigarh:** 4th floor, Adarsh Mall, Plot No. 50, Industrial & Business Park, Phase II, Chandigarh - 160002. Tel: (0172) 5024000• **Chenna**: KRM Plaza, No. 2, Harrington Road, Chetpet, Chennai - 600031. Tel: (044) 42444000 • **Ghaziabad:** C 53A, Third floor, Rajnagar District Centre (RDC), Raj Nagar, Ghaziabad - 201001, Uttar Pradesh. Tel: (0120) 2821400 • **Goa:** 210, 2nd floor, Gera's Imperium 1, Patto, Panjim, Goa - 403001. Tel: (0832) 2438171/2437287 • **Guwahati:** Oasis Plaza, 1st Floor, Dr. B. Baroah Road, Ulubari Kamrup, Guwahati - 781007. Tel: (0361) 2468496 • **Gurugram:** 6th floor, Vatika Atrium, Golf Course Road, Sector 53, Gurugram - 122002. (Haryana). Tel: (0124) 4094000 • **Indore:** Office No. 502, Maloo-01 26/C, Scheme No. 94/C Ring Road, Indore - 452010. Tel: (91) (731) 4001211/4001311 • **Jaipur:** A-19, 1st floor, Main Sahakar Path, Near Sahakar Bhavan, Jaipur - 302001. Tel: (0141) 2744033-35 • **Jamshedpur:** 2nd Floor, Sai Apartment, Opposite Thakur Pyara Singh Ground, Kasidhi, Sakchi, Jamshedpur - 831 001 Tel: (91) (657) 222 1530 • **Kochi:** 2nd floor Millennium Plaza, MKK Nair Road, Alinchuvadu Junction, Kochi - 682024. Tel: (0484) 4499000 • **Kolkata:** 7, Hare Street, Kolkata - 700001. Tel: (053) 22134100 • **Ludhiana:** SCO 16-17, Feroze Gandhi Market, Fortune Chambers, 3rd floor, Ludhiana - 141001. (Punjab) Tel: (0161) 5001404 • **Lucknow:** 177/4, Faizabad Road, Lucknow - 226007 Tel: (0522) 403400 • **Mumbai:** Blue Star House, 9-A Ghatkopar Link Road, Saki Naka, Mumbai - 400072. Tel: (022) 66684100 • **Nagpur:** 219, Bajaj Nagar, 1st floor, South Ambazari Road, Nagpur - 440010. Tel: (0712) 2249000/662400