

Advance Biotech Solutions India Pvt. Ltd.

(Advance Technologies, Effective Solutions)





ULT FREEZER (-80°)DOUBLE DOOR

ABSIPL IS A MARKET LEADER IN REFRIGERATION TECHNOLOGY. ABSIPL REPRESENTING MARKET WITH WIDEST RANGE OF DEEP FREEZER BY THEIR OEM MANUFACTURED REFRIGERATION SYSTEM AND EVAPORATORS. THIS PRODUCT IS DESIGNED TO STORE VACCINES, BLOOD PLASMA, BIOLOGICAL MATERIALS. APPLICATIONS COULD BE FOUND IN THE ELECTRONIC AND CHEMICAL LABORATORIES EPIDEMIC PREVENTION, HOSPITALS, ANIMAL HUSBANDRY BLOOD BANKS AND RESEARCH INSTITUTES. IT CAN BE USE FOR PRODUCTS WHICH REQUIRE STRICT STORAGE CONDITIONS SUCH AS VIRUSES, PATHOGENS, RED BLOOD CELLS, WHITE BLOOD CELLS, SKIN, BONES, BACTERIA, SEMEN, BIOLOGICAL PRODUCTS, OCEAN PRODUCTS, ELECTRONIC DEVICES AND SPECIAL MATERIALS. SUITABLE FOR LONG TERMS STORAGE, MEETING THE COLD STORAGE REQUIREMENTS FOUND IN HOSPITALS, DISEASE CONTROL AND PREVENTION CENTERS, SCIENTIFIC RESEARCH INSTITUTIONS BIOMEDICAL ENGINEERING INSTITUTE, AGRICULTURE/ FISHERY COMPANIES AS WELL AS THE ELECTRONICS AND CHEMICAL INDUSTRY









Field Proven reliability

- Double door / Single design more convenient to be used by different users.
- Unique insulated inner door design for separate storage compartments to minimize frost buildu inside the chamber.
- Vacuum Relief port for easier and frequent door opening.
- Specialized control system design for a well-balanced operation of cascade refrigeration system.
- Uses CFC/HCFC Free Hydro Carbon (Natural) Refrigerant for faster temperature recovery.

Low noise level

- Specialized refrigeration system design using whisper quiet fan and compressors.
- Freezer chassis designed to absorb vibration and sound.
- Noise level

Safety

- Malfunction alarms including high and low temperature, Power Failure, Sensor errors, Clean-filter Hot Condenser.
- Capable of producing two types of alarm outputs: audibled buzzer and visible flashing light multiple builtin system protection code for controls, user settable delay to start voltage compensation system and protection against extreme high voltages.
- Door ajar feature standard on all single door upright models.

Energy saving

- Unique door seal design for the minimum loss of cold temperature during a door opening.
- Polyurethane insulation panels to minimize cabinet heat gain and to improve temperature stability.
- Patented cabinet insulation system design for optimal performance of cold storage temperature and minimal frost build up.
- Unique design of independent insulated inner door systems for independent access of storage space to provide the maximum protection of stored samples.
- Power management system with low voltage surge protection and buck/boost.
- Heat Output (220-240V) 300-500 W.

Installation & Application

- Wide range operating voltage system from 185V to 260 V designed to allow units installed in areas with poor voltage condition.
- Suitable for 10°C to 32°C ambient temperature.
- Input voltage and ambient temperature shown simultaneously for ease of monitoring environmental conditions
- Robust door latch designed for secure door closing.
- Compact casters for ease of maneuvering.

Key design features

- Microprocessor controlled system designed for controllable range of -50°C to -86°C settable in 1°C increment.
- Energy consumption 6.5 KW/24 hours up to 18 KW/24 hours depending on ambient condition and size
 of ULT Freezer.
- Energy efficient and sealed cascade refrigeration system with pull down time of less than 5.5 hrs.
- Large LED/LCD display for cabinet temperature, set temperature.
- Settable high temperature and low temperature alarms
- Automatic clean-filter alarm and sensor error alert
- Adjustable storage shelf height



4 Individual Inner Doors

- 4 individual inner doors can be opened independently to minimize frost buildup inside the chamber.
- Unique door seal design for the minimum loss of cold temperature during a door opening.
- Compatibility with existing racking system from competitors.
- Stainless steel handle to ensure proper strength for door latching.



Excellent Doors Seals

 Total of five gaskets to safeguard the freezer temperature, including four seals for the exterior door, one for each inner door



Circular- chart Recorder (Optional)

- Front-mounted.
- For independent temperature monitoring



Pressure Equalization Port to allow the freezer door to be open shortly after adding samples



Two port holes for ease of temperature monitoring

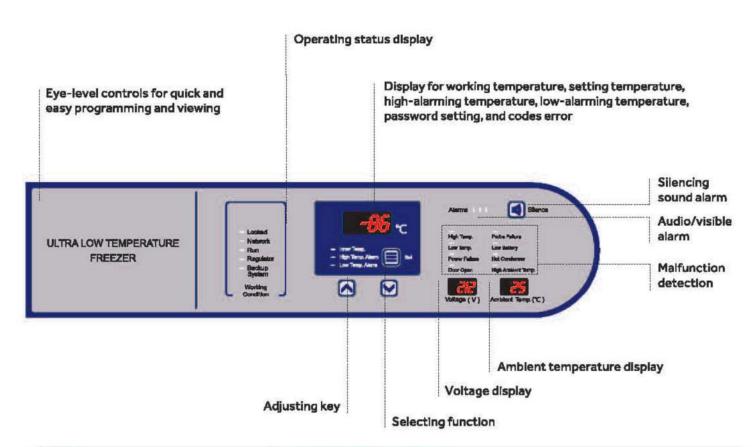


German EBM condenser fan, intelligent on and off power saving system



EBRACO compressor of 1 H.P each under cascade cooling system.

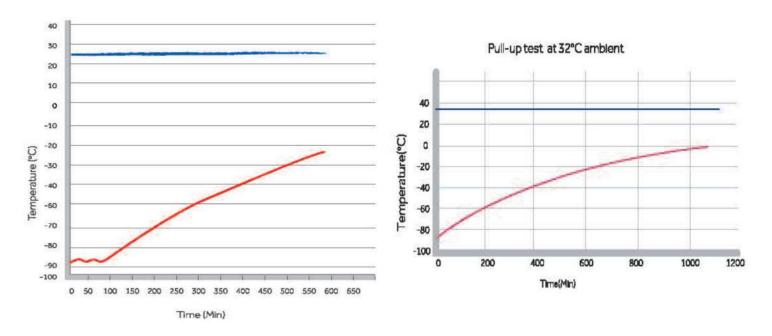
FEATURES AND BENEFITS



Alarm	Alarm Triggering Condition				
High Temperature	Temperature reaches the warm alarm limit.				
Low Temperature	Temperature reaches the low alarm limit				
Power Failure	Equipment loses power				
Door Open	Door open period exceeds 5 mins				
Probe Failure	 Main cabinet temperature control sensor falls Condenser sensor fails Ambient sensor fails Heat exchanger sensor falls Heat exchanger temperature falls 				
Low Battery	Battery capacity runs low or battery switch is not turned on				
Hot Condenser	 Condensers filter element is clogged Ambient temperature is too high 	200. CDD-000-200 No. 200 (PD-000-200 - T-200-200 - 000-000)			
High Ambient Temperature	Ambient temperature exceeds 32°C				

Latest Insulation Technology

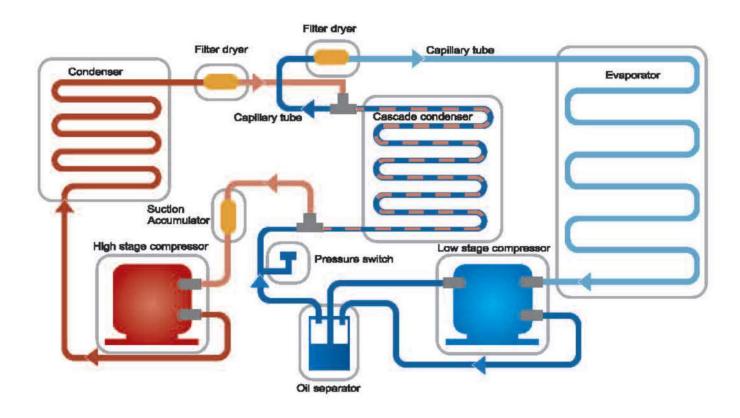
- Made up of 150 mm compressed polyurethane foam (PUF) Insulation
- Thick (High density) Insulation minimize heat load of the cabinet.
- Provides stable storage temperature.
- Energy Efficient due to blockage of convective heat transfer.
- Saves valuable floor space in laboratory due to slim design.
- Offers large storage space.
- Pull up / Warm-up time from -80°C to -50°C more than 6 hours at 25°C ambient temperature.
- Pull down time from ambient to -86°C is less than 5.5 hours at 25°C ambient temperature.



Optional Accessories

- Touch Panel Control
- Stainless Steel Fixed type rack.
- Stainless Steel Drawer Type rack
- CO₂ Emergency cooling back-up system
- USB Port to download data
- Cardboard Boxes with divider.
- Inkless Circular 7-days Chart Recorder
- Wireless Data monitoring and control system for remote monitoring and control
- Wireless data logging with 21CFR
- RFID Access Port
- Inventor Management System

Heat exchange circulation system of ultra low temperature freezer





Specification of all Double Door Model

M - J - I	PSA-86DDU500	PSA-86DDU650	PSA-86DDU750	PSA-86DDU850	PSA-86DDU950			
Model Cabin at Towns	13A-00DD0300	13A-00DD0030		13A-00DD0030	13A-00DD0930			
Climate Class	Vertical							
Chaling Tyme	N Dinast Capling							
Cooling Type	Direct Cooling							
Exterior / Interior	Powder Coated / Stainless Steel 304							
SS Shelves / Inner	3 / 4 shelf can be upgrade up to 7							
Doors Defrost Mode	M1							
	Manual							
Refrigerant	HC / CFC & HCFC free							
Noise (dB)	50 96 (°C)							
Cooling performance	-86 (°C)							
Temperature Range Controller	-50 ~ -86 (°C)							
	Microprocessor							
Display Power Supply (V/ Hz)	LED/LCD Touch 220~230/50							
Power (W)	750	800	900	900	1000			
Electrical Current (A)	730	7.5	8	8	9			
Power Consumption	•				-			
Heat Output	7.5 kw/day 1152 BTU/h	8.5 kw/day 1152 BTU/h	9 kw/day 1260 BTU/h	9 kw/day 1260 BTU/h	10 kw/day 1367 BTU/h			
Capacity (L/Cu. Ft)	500/17	650/23	750/26	850/30	950/33			
Net/ Gross Weight	300/17	350/400	385/430	400/450	480/520			
(approx.) kg	300/330	330/400	303/ 430	400/430	400/320			
Interior Dimension	24 x 25 x 52	30 x 25 x 52	32 x 26 x 52	35 x 29 x 52	40 x 30 x 52			
(W x D x H) inches	21720702	00 N 20 N 02	02 N 20 N 02	00 N 2) N 02	10 10 10 10 10 10			
Exterior Dimension	38 X 36 X 78	41 x 36 x 78	43 x 37 x 78	45 x 38 x 78	49 x 40 x 78			
(W x D x H) inches								
, , ,	ALARM CONDITIONS							
High/Low	Yes	Yes	Yes	Yes	Yes			
Temperature								
Hot Condenser	Yes	Yes	Yes	Yes	Yes			
Power Failure	Yes	Yes	Yes	Yes	Yes			
High/Low Voltage	Yes	Yes	Yes	Yes	Yes			
Sensor Error	Yes	Yes	Yes	Yes	Yes			
Low Battery	Yes	Yes	Yes	Yes	Yes			
High/ Ambient	Yes	Yes	Yes	Yes	Yes			
Temp.								
Door open	Yes	Yes	Yes	Yes	Yes			
Test Hole	Available	Available	Available	Available	Available			
USB Data logging	Available	Available	Available	Available	Available			
Port								
Certification	CE	CE	CE	CE	CE			



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