



# Cryo Freezer



## -150°C Cryo Freezer



-150°C Cryo freezer, developed by Haier Biomedical, provides a safer, more convenient and economical alternative long term storage method than LN<sub>2</sub> refrigeration systems. By providing a storage environment about 20°C colder than the water recrystallization temperature, the freezer is suitable for storage of a varieties of biological samples such as viruses, erythrocytes, leukocytes, cutis, skeleton, sperms, oceanic products, special test materials and even electronic products for testing. It can be installed in institutions including blood banks, hospitals, epidemic prevention services, research institutes, and research laboratories.

### Temperature Control

- Microprocessor control: Large LED display features a clear cabinet temperature display at an easy viewing angle and allows an adjustable range of -126°C to -150°C

### Refrigeration System

- Optimized single stage refrigeration system
- Hermetically sealed system
- Environmentally safe refrigerants
- Permanently lubricated fan systems

### Other Features

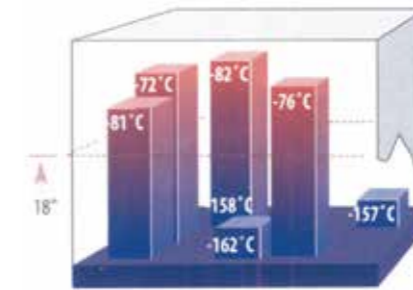
- Large LED display for easy viewing
- Ambient range of 10 °C to 30°C
- LN<sub>2</sub> back up system compatible
- Remote monitoring
- Smart condenser fans for energy saving

### Safety Control System

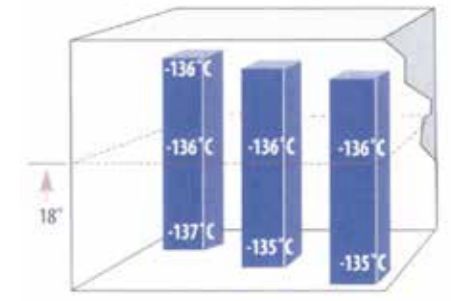
- Alarm system: User programmable high and low temperature alarm set points, power failure, sensor error, extreme voltage, hot condenser, and extremely high ambient
- Alarm types: audible buzzer and visible flashing
- Protection functions: Settable pass codes for control panel, start-up delay, voltage compensation system
- Properly grounded



## Liquid Nitrogen Preservation System in Cryo Freezer



LN<sub>2</sub> Freezer System(-196 °C)



Cryo Freezer(-140°C)

### Specifications

| Model                         |                              | DW-150W200     |                |
|-------------------------------|------------------------------|----------------|----------------|
| Technical Data                | Cabinet Type                 | Chest          |                |
|                               | Climate Class                | N              |                |
|                               | Cooling Type                 | Direct Cooling |                |
|                               | Defrost Mode                 | Manual         |                |
|                               | Refrigerant                  | HFC            |                |
|                               | Sound Level(dB(A))           | 67             |                |
| Performance                   | Cooling Performance(°C)      | -150           |                |
|                               | Temperature Range(°C)        | -126 --150     |                |
| Control                       | Controller                   | Microprocessor |                |
|                               | Display                      | LED            |                |
| Electrical Data               | Power Supply(V/HZ)           | 380/50         |                |
|                               | Power(W)                     | 2800           |                |
|                               | Electrical Current(A)        | 11             |                |
| Dimensions                    | Capacity(L/Cu.Ft)            | 200/7.1        |                |
|                               | Net/Gross Weight(approx)     | kg             | 315/385        |
|                               |                              | lbs            | 694.4/848.8    |
|                               | Interior Dimension(W*D*H)    | mm             | 667*462*650    |
|                               |                              | in             | 26.3*18.2*25.6 |
|                               | Exterior Dimension(W*D*H)    | mm             | 1670*850*1060  |
|                               |                              | in             | 65.7*33.5*41.7 |
|                               | Packing Dimension(W*D*H)     | mm             | 1810*940*1240  |
| in                            |                              | 71.3*37.0*48.8 |                |
| Alarms                        | Container load(20'/40'/40'H) | 6/13/13        |                |
|                               | High/Low Temperature         | Y              |                |
|                               | Hot Condenser                | Y              |                |
|                               | Power Failure                | Y              |                |
|                               | High/Low Voltage             | Y              |                |
|                               | Sensor Error                 | Y              |                |
|                               | Low Battery                  | Y              |                |
|                               | High Ambient Temperature     | Y              |                |
|                               | Door Ajar                    | N/A            |                |
|                               | Accessories                  | Caster         | Y              |
| Foot                          |                              | Y              |                |
| Porthole                      |                              | Y/1            |                |
| Shelves/Inner doors           |                              | -/2            |                |
| USB Interface                 |                              | N/A            |                |
| Remote Alarm                  |                              | Y              |                |
| 5V Power Supply Port          |                              | N/A            |                |
| Temperature Recorder          |                              | Optional       |                |
| Rs232/485 Port                |                              | Optional       |                |
| CO <sub>2</sub> Backup System |                              | N/A            |                |
| LN <sub>2</sub> Backup System | Optional                     |                |                |
| Others                        | Certification                | N/A            |                |

Product appearance and specifications are subject to change without notice