



## -86°C ULT FREEZER BFUR-86-315

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-86°C ULT FREEZER TWINCOOL



Two separate cooling systems in one freezer, if one of them fails, the backup cooling system will start to work automatically.  
 Security and Reliable, advanced technology, standard backup system, one system can keep the freezer inside temperature at -70°C.  
 Accurate temperature controller, setting temperature range of -40 to -86°C  
 7-inch touch screen display, accuracy of 0.1 °C.  
 Suggested ambient temperature: +10 to 32°C.  
 304 SS inner chamber for friendly use and easy cleaning.  
 Brand compressor to ensure excellent stability of the cooling system.  
 Eco-friendly and energy-saving series with R170 & R290 green HC refrigerant and cascade cooling system.  
 Security

## SPECIFICATIONS

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Model                                     | BFUR-86-315                                   |
| Temperature Range                         | -40 ~ -86 °C                                  |
| Ambient Temperature                       | 10~32°C                                       |
| Capacity (L/Cu. Ft.)                      | 838 / 29.6                                    |
| Noise                                     | 55 dB                                         |
| Cold Rack Max. Loading Capacity (pcs)     | 255D Rack / 24                                |
| 2" Cold Box Max. Loading Capacity (pcs)   | 600                                           |
| 0.5~2ml Vials Max. Loading Capacity (pcs) | 60,000                                        |
| Controller / Display                      | Microprocessor / 7" Touch Screen              |
| Sensor                                    | PTC                                           |
| Voltage and Frequency                     | 220V±10%, 50/60Hz                             |
| Power                                     | 1700 W                                        |
| Electric Current                          | 10.75 A                                       |
| Power Consumption (kWh/24h)               | 19.98                                         |
| High / Low Temp. Alarm                    | Yes                                           |
| Power Failure Alarm                       | Yes, 72h                                      |
| Sensor Error Alarm                        | Yes                                           |
| Controller Error Alarm                    | Yes                                           |
| Door Ajar Alarm                           | Yes                                           |
| Abnormal Voltage Alarm                    | Yes                                           |
| Abnormal Ambient Temp. Alarm              | Yes                                           |
| Battery Error Alarm                       | Yes                                           |
| Condenser Error / Filter Net Clean Alarm  | Yes                                           |
| Refrigeration / Defrost Type              | Direct Cooling / Manual                       |
| Compressor (Brand/pcs)                    | SECOP / 2                                     |
| Refrigerant / Weight (g)                  | R400A / 400g                                  |
| External / Internal Door (pcs)            | Foamed Solid Door x 1 / Foamed Solid Door x 2 |
| Adjustable Shelf (pcs)                    | 3                                             |
| Exterior / Interior Cabinet Material      | Coated Steel / Stainless Steel                |
| Insulation Material                       | PURF (≥100mm) + VIP                           |
| Door Lock                                 | Yes                                           |

|                             |                            |
|-----------------------------|----------------------------|
| Test Hole (pcs)             | 2                          |
| Castors (pcs)               | 4                          |
| USB Data Download Port      | Yes                        |
| Remote Alarm Port           | Yes                        |
| RS485 Port                  | Yes                        |
| Temperature Datalogger      | Optional                   |
| Temperature Printer         | Optional                   |
| Temperature Chart Recorder  | Optional                   |
| Protective Gloves           | Optional                   |
| LN2/CO2 Backup System       | Optional                   |
| Interior Dimensions (WxDxH) | 894x718x1310 mm            |
| Exterior Dimensions (WxDxH) | 1179x1135x1995 mm          |
| Packing Dimensions (WxDxH)  | 1270x1170x2200 mm          |
| Net / Gross Weight          | 332 / 407 kgs              |
| Package                     | Plywood box with pallet    |
| Alt Name                    | -86°C ULT Freezer TwinCool |

## FEATURES

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### Security

Safety door lock to prevent unauthorized access.  
 72h built-in backup battery to power the controller and save temp. data when power failure or system error.  
 Visual and audible alarm system: High/low temperature, sensor failure, controller error, etc.  
 Power failure protection: turn-on delay of the cooling system after power failure.  
 Controller error protection: the cooling system will remember the normal working cycle and keep working depending on this memory when the controller or two sensors failed.

### Humanized design

Adjustable shelves for easy storage.  
 Casters with stoppers for easy moving and fixation.  
 Special-designed service-free drainage system.

## APPLICATIONS

The -86°C ultra-low temperature freezers are designed for the long-term preservation of viruses, germs, vaccines, biological tissues and organs, special food, medicines, reagents, etc.



**Biolab Scientific Ltd.**

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)