



-86°C ULT FREEZER

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Freezers designed for daily sample protection and dependability. Environment friendly with safety features, these freezers provide outstanding thermal stability for a huge amount of samples. Modify your requirements with several optional features including chart recorder, CO2 back-up system, storage racks and remote alarm system.

Used in Preservation Of Plasma, Microbial Cultures, Tissues, Cell Lines, Clinical, Industrial, Research.

Also known as Laboratory ULT freezer, ULT Freezer, Ultra-low Freezer.

200 -86°C ULT FREEZER CHEST



Settable high temperature and low temperature alarms

Automatic clean-filter alarm and sensor error alert

Adjustable storage shelf height

Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber

Specialized control system design for a well-balanced operation of cascade refrigeration system

Audible and visible alarm

Door open feature standard and USB port for temperature data downloading standard on upright models

Remote alarm contacts

Unique door seal design for the minimum loss of cold temperature during a door opening

High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability

SPECIFICATIONS

Model	BFRZ-86-201	BFRZ-86-202
Capacity	105 L	485 L
Temperature Range	-40°C to -86°C	
Ambient Temperature	10°C ~ +32°C	
Defrosting	Manual	
Cooling Type	Direct Cooling	
Insulation Material	PURF	
Refrigerant	Mixed-gas	
Internal Dimension	480x380x665 mm	1455.5x525.2x674 mm
Overall Dimension	680x580x935 mm	1695x840x962 mm
Package Size	770x705x1090 mm	1765x900x1060 mm
Interior	Stainless steel	
Exterior	Color sprayed steel	
Controller	Microprocessor, Digital display	
Sensor	PTC	
Compressor Brand/QTY	CUBIGEL/1	SECOP/1
Evaporator	Submerged coil evaporator	
Evaporator Material	Copper tube evaporator	
Condenser	Copper tube and finned	
Noise Level	50 db	54.5 db
Alarm	High/low temperature, Sensor malfunction, Thermostat failure	

Standard Accessories	Castor, Test hole 1/25 mm	
Optional Accessories	Chart recorder, Data logger, CO2 backup system, LN2 backup system	
Weight (Net/Gross)	42/45 kg	130/150 kg
Power Consumption (Kwh/24hrs)	3.8	11.5
Rated Current A	2.2	3.57
Power Supply	220V, 50Hz	



BFRZ-86-201



BFRZ-86-202

300 -86°C ULT FREEZER UPRIGHT



Settable high temperature and low temperature alarms
 Automatic clean-filter alarm and sensor error alert
 Adjustable storage shelf height
 Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber
 Specialized control system design for a well-balanced operation of cascade refrigeration system
 Audible and visible alarm
 Door open feature standard and USB port for temperature data downloading standard on upright models
 Remote alarm contacts
 Unique door seal design for the minimum loss of cold temperature during a door opening
 High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability

SPECIFICATIONS

Model	BFUR-86-302	BFUR-86-303	BFUR-86-304	BFUR-86-305
Capacity	188 L	338 L	340 L	408 L
Temperature Range	-40°C to -86°C			
Ambient Temperature	10°C ~ +32°C			
Temperature Increment	1°C			
Defrosting	Manual			
Cooling Type	Direct Cooling			
Insulation Material	PURF			
Refrigerant	Mixed-gas	HC	Mixed-gas	
Internal Dimension	465x465x830 mm	488x607x1140 mm		606x575x1180 mm
Overall Dimension	830x810x1607.5 mm	854x1072x1907 mm	854x1006x1907 mm	872x1028x1945.5 mm
Package Size	915x928x1818 mm	935x1070x2128 mm		954x955x2094 mm
Drawers/Shelves	Stainless steel shelf/2		Stainless steel shelf/3	

Interior	Stainless steel			
Exterior	Color sprayed steel			
Controller	Microprocessor, Digital display			
Sensor	PTC			
Compressor Brand/QTY	CUBIGEL/1	SECOP/2	SECOP/1	
Evaporator	Submerged coil evaporator			
Evaporator Material	Copper tube evaporator			
Condenser	Copper tube and finned			
Noise Level	60 db	50 db	60 db	50 db
Alarm	High/low temperature, Sensor malfunction, Thermostat failure	High/low temperature, Power off, Sensor malfunction, Abnormal voltage, Filter screen check, Thermostat failure, Low battery, Condensor clean, High ambient temperature, Door ajar		
Standard Accessories	Castor, Inner doorx3, Test hole 1/25 mm	Castor, Inner doorx2, Test hole 2/25 mm, USB port	Castor, Inner doorx2, Test hole 1/25 mm, USB port	
Optional Accessories	Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box			
Weight (Net/Gross)	207 / 222 kg	286 / 306 kg	268 / 288 kg	268 / 293 kg
Rated Power	610 W	870 W	668 W	735 W
Power Consumption (Kwh/24hrs)	8.2	12.8	11.2	11
Rated Current A	3.3	6.75	3.5	4.5
Power Supply	220V, 50Hz			

Model	BFUR-86-306	BFUR-86-307	BFUR-86-308	BFUR-86-309
Capacity	408 L		588 L	
Temperature Range	-40℃ to -86℃			
Ambient Temperature	10℃ ~ +32℃			
Temperature Increament	1℃			
Defrosting	Manual			
Cooling Type	Direct Cooling			
Insulation Material	PURF			
Refrigerant	HC	Mixed-gas		HC
Internal Dimension	606x575x1180 mm		606x738x1310 mm	
Overall Dimension	891x992x1945.5 mm		872x1192x1994.5 mm	891x1155x1994.5 mm
Package Size	954x955x2094 mm		970x1138x2185 mm	
Drawers/Shelves	Stainless steel shelf/3			
Interior	Stainless steel			
Exterior	Color sprayed steel			
Controller	Microprocessor, Digital display			
Sensor	PTC			
Compressor Brand/QTY	SECOP/2			
Evaporator	Submerged coil evaporator			
Evaporator Material	Copper tube evaporator			
Condenser	Copper tube and finned			
Noise Level	55 db	53 db		55 db
Alarm	High/low temperature, Power off, Sensor malfunction, Abnormal voltage, Filter screen check, Thermostat failure, Low battery, Condensor clean, High ambient temperature, Door ajar			
Standard Accessories	Castor, Inner doorx2, Test hole 1/25 mm, USB port			

Optional Accessories	Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box			
Weight (Net/Gross)	292 / 317 kg	285 / 310 kg	303 / 332 kg	335 / 363.5 kg
Rated Power	845 W	725 W	1400 W	815 W
Power Consumption (Kwh/24hrs)	11.6	14.5	12.5	12
Rated Current A	7	5.7	8.5	7
Power Supply	220V, 50Hz			

Model	BFUR-86-310	BFUR-86-312	BFUR-86-313	BFUR-86-314
Capacity	588 L	728 L	838 L	
Temperature Range	-40°C to -86°C			
Ambient Temperature	10°C ~ +32°C			
Temperature Increament	1°C			
Defrosting	Manual			
Cooling Type	Direct Cooling			
Insulation Material	PURF			
Refrigerant	Mixed-gas	HC	Mixed-gas	HC
Internal Dimension	606x738x1310 mm	963x558x1350 mm	894x718x1310 mm	
Overall Dimension	891x1155x1994.5 mm	1248x975x1994.5 mm	1160x1172x1994.5 mm	1179x1135x1994.5 mm
Package Size	970x1138x2185 mm	1320x970x2185 mm	1212x1098x2185 mm	
Drawers/Shelves	Stainless steel shelf/3			
Interior	Stainless steel			
Exterior	Color sprayed steel			
Controller	Microprocessor, Digital display			
Sensor	PTC			
Compressor Brand/QTY	SECOP/2			
Evaporator	Submerged coil evaporator			
Evaporator Material	Copper tube evaporator			
Condenser	Copper tube and finned			
Noise Level	50 db	53 db	55 db	
Alarm	High/low temperature, Power off, Sensor malfunction, Abnormal voltage, Filter screen check, Thermostat failure, Low battery, Condensor clean, High ambient temperature, Door ajar			
Standard Accessories	Castor, Inner doorx2, Test hole 1/25 mm, USB port			
Optional Accessories	Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box			
Weight (Net/Gross)	303 / 332 kg	320 / 350 kg	391 / 424 kg	397 / 430 kg
Rated Power	1400 W	935 W	840 W	890 W
Power Consumption (Kwh/24hrs)	16.5	15.4	14.5	15
Rated Current A	8.5	7	6.5	7
Power Supply	220V, 50Hz			

Model	BFUR-86-315
Capacity	838 L
Temperature Range	-40°C to -86°C
Ambient Temperature	10°C ~ +32°C
Temperature Increment	1°C
Defrosting	Manual

Cooling Type	Direct Cooling
Insulation Material	PURF
Refrigerant	Mixed-gas
Internal Dimension	894x718x1310 mm
Overall Dimension	1179x1135x1994.5 mm
Package Size	1212x1098x2185 mm
Drawers/Shelves	Stainless steel shelf/3
Interior	Stainless steel
Exterior	Color sprayed steel
Controller	Microprocessor, Digital display
Sensor	PTC
Compressor Brand/QTY	SECOP/2
Evaporator	Submerged coil evaporator
Evaporator Material	Copper tube evaporator
Condenser	Copper tube and finned
Noise Level	-
Alarm	High/low temperature, Power off, Sensor malfunction, Abnormal voltage, Filter screen check, Thermostat failure, Low battery, Condensor clean, High ambient temperature, Door ajar
Standard Accessories	Castor, Inner doorx2, Test hole 1/25 mm, USB port
Optional Accessories	Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box
Weight (Net/Gross)	391 / 424 kg
Rated Power	840 W
Power Consumption (Kwh/24hrs)	14.25
Rated Current A	6.5
Power Supply	220V, 50Hz



BFUR-86-302



BFUR-86-303



BFUR-86-304



BFUR-86-305



BFUR-86-306



BFUR-86-307



BFUR-86-308



BFUR-86-309



BFUR-86-310



BFUR-86-312



BFUR-86-313



BFUR-86-314



BFUR-86-315

BFUR-86-316 -86°C ULT FREEZER UPRIGHT



Self-cascade system wiith mixed-refrigerant

SPECIFICATIONS

Model	BFUR-86-316
Capacity	728 L
Temperature Range	-40°C to -86°C
2ml Sample Loading	50400pcs
Alarm	High&low temp, power failure, control error, door open,abnormal voltage, low battery, condensor clean, high ambient temperature
Alarm port	USB+Remote alarm port
External Dimension	1229×1012×1994.5 mm
Optional Parts	110V transformer; Datalogger; Cold storage rack, box; LN2/CO2 backup system

BFUR-86-317 -86°C ULT FREEZER UPRIGHT



Cascade system, HC green refrigerant R290 & R170, Energy saving), Touch Screen, VIP

SPECIFICATIONS

Model	BFUR-86-317
Capacity	728 L
Temperature Range	-40°C to -86°C
2ml Sample Loading	50400pcs
Alarm	High&low temp, power failure, control error, door open,abnormal voltage, low battery, condensor clean, high ambient temperature
Alarm port	USB+Remote alarm port
External Dimension	1229×1012×1994.5 mm
Optional Parts	110V transformer; Datalogger; Cold storage rack, box; LN2/CO2 backup system



Biolab Scientific Ltd.

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com