



PRODUCT CATALOG

Brand - **BioGenix**

ULTRA DEEP FREEZER

-40 TO -86 ° C

Product Description

• Deep Freezer

- BIOGENIX is a quality upright freezer designed for professional storage of frozen items. With perfect space utilization, the reliable and robust storage freezer has a wide range of applications within all food segments, where quality and design matters. The BIOGENIX can stand alone, or with advantage be placed side-by-side with the identically designed refrigerator .



Reliability and Key Features

- Temperature up to -40°C / -80°C (AC room)
- Upright models with small foot prints
- Unique design of thermal barrier for better energy efficiency
- Machine filled CFC free PUF insulation to eliminate void pockets
- Adjustable trays
- Hermetically sealed Compressor with CFC free refrigerant
- Alarms for high/low set parameters
- Sensor failure alarm
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Microprocessor controller with LED display of Temperature with set, process value & audio visual alarm (standard)
- Weight carrying capacity of each tray : 30 Kg Uniformly distributed
- Auto door closer
- Smart Handle with LED door closure indication

LCD DISPLAY

FEATURES

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Settable High / low alarm points
- Memory for storage of up to 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm

TOUCH SCREEN DISPLAY

FEATURES

- 7 inch big color touch screen
- PLC (Programmable logic controller)
- Memory of 15,000 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- BioGenix Data soft Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

BIOGENIX 'DATA SOFT'

FEATURES

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with Lan connectivity and can be monitored on PC with password authentication
- Multi chamber data acquisition on single software
- Communication through RS 485 / TCP IP
- GSM Mobile Alert for six Numbers
- Power failure and resumption recorded with date and time

OPTIONAL ACCESSORIES

TO BE ORDERED SEPARATELY

- Data logger for 8 Point temperature recording with sensor printer interface and software
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- GSM alert through SIM card

Technical Specification

Model	BPDF-86V58	BPDF-86V108	BPDF-86V160	BPDF-86V58	BPDF-86V160	
External Size(W*D*H)mm	635*757*1212	700*730*1260	700*700*1580	880*980*1940	891*930*1945	
Internal Size(W*D*H)mm	330*453*410	460*460*510	460*455*800	488*607*1140	606*575*1180	
Capacity	58L	108L	158L	340L	405L	
Type	Vertical					
Temp.Range	-40°C~-86°C					
Temp.Accuracy	0.1°C					
Control System	Microprocessor control, LED Digital Display					
Audible and Visual Alarm	High and low temperature alarm,sensor failure alarm, thermostat failure alarm, failure alarm, filter inspection alarm, abnormal voltage alarm, low battery alarm. High and low temperature,sensor failure.(BDF-86V108 BDF-86V160)					
Alarm Method	Sound beeps and lights flash					
Refrigeration Type	Direct refrigeration	Optimized auto-cascade refrigerating system		Direct refrigeration	Optimized auto-cascade refrigerating system	
Refrigerant	R290 and R170	R404a and R23		R290 and R170		
Compressor	1 set			2 set	2set	
Condenser& Evaporator	Made of copper					
Construction	Foam Layer Thickness	150mm	120mm		150mm	150mm
	Internal Material	304 stainless steel				
	External Material	Sprayed steel plate				
Door	Lockable door					
Caster	4 casters					
Chamber with Inner Door	1	2	3	3	4	
Shelf	1pcs	1pcs	2pcs			
Temp.Test Port	1,φ25mm	1,φ18mm	1,φ18mm	1,φ25mm	1,φ25mm	
Consumption	442	520W	650w	870w	890w	
Power Supply	AC110V/220V+10%,50/60Hz					
Package Size (W*D*H) mm	730*845*1400	785*800*1430	800*780*1750	940*1070*2130	955*1070*2150	
Gross Weight	155kg	133kg	155kg	283kg	290kg	



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