

# Laboratory Freezer for Storage

MODEL	TEMPERATURE RANGE	SET POINT	CAPACITY (LITRES)	DIMENSIONS (WxDxH cm)	DOOR TYPE
LB 0050NFN	0°C ÷ -25°C	-20°C	260 NET	<b>External</b> 76 x 64 x 136 <b>Internal</b> 64 x 52 x 80	Hinged Solid



**DRY CONTACT for REMOTE ALARM – BACK-UP BATTERY 36hrs HOLD OVER TIME: 100 to 120 minutes with r.t. 25°C and Full Load**

**Colour:** Gray, White or any RAL colour  
**Structure:** Internal and external Steel Laminated Plate with FINGER PRINT PROOF TECHNOLOGY™ to assure a Bacteria-Static Activity  
**Insulation:** Polyurethane Foam, CFC FREE, 45Kg/m3, thick. 60mm  
**Refrigeration type:** Ventilated (NO-FROST)  
**Defrosting:** Automatic with condensing water evaporation  
**Electric power:** 1 / 210-240Volt / 50-60Hz  
**Electrical characteristics:** Short-Circuit Protection, Power Stabilizer with Linear Regulation of Voltage for not constant voltage(+/- 20 Volts).  
**Compressor:** no.1 Hermetic Type - 500 watts , ½ Hp  
**Refrigerant gas:** R452 (compatible with R404a and R507a)  
**Door:** No 1 Solid Door  
**Inner setting:** 3 or 4 Shelves/Grids  
**Lighting:** LED lamp active on opening door, 6000K  
**Electronic controller:** Hi Efficiency display, res. 0,1°C  
**Castors and Wheels:** 4 Wheels + 2 adjustable feet

Main Visual and Acoustic alarms for:

- HIGH and LOW temperature
- Open door
- Devices failure
- Probes failures

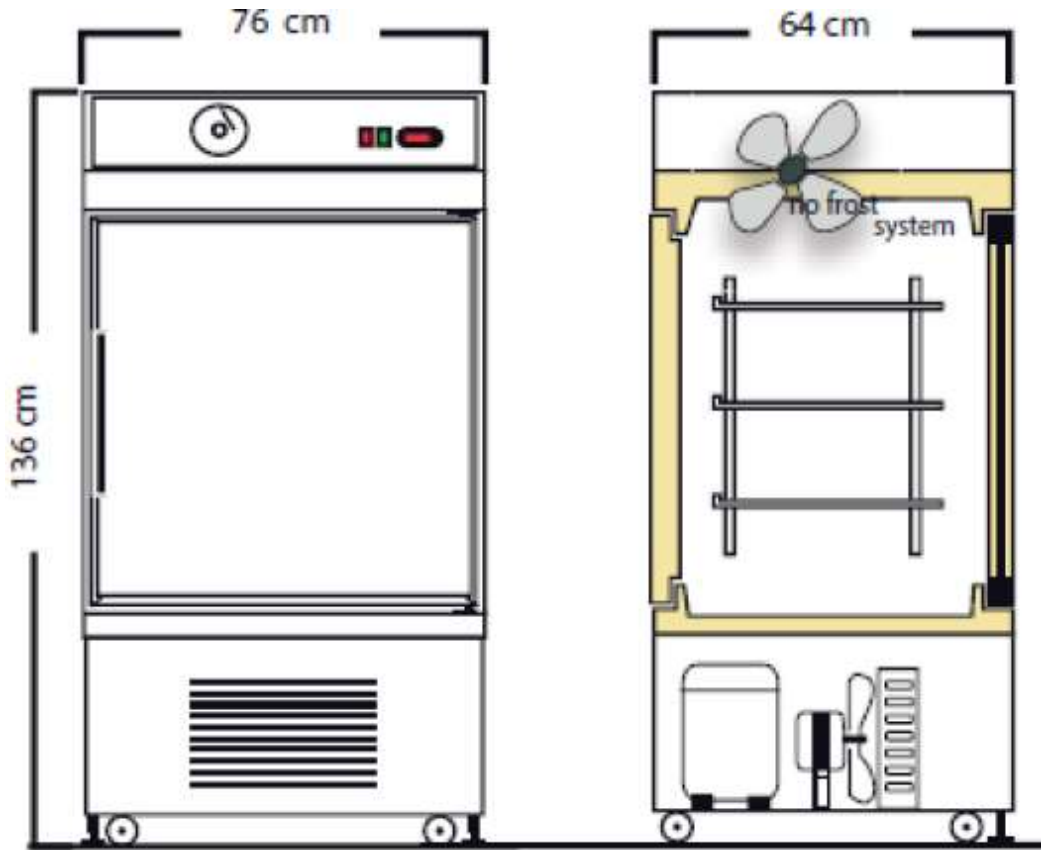
**MAIN OPTIONAL:**

DTLSD3 – Interactive Data Logger TFT 5" , USB, SD Card  
 FLEX PHARMA – Data Logger with WI-FI Connection and dedicated App for alarm and report receiving and real time check  
 RG1 – Graphic Chart Recorder with 52 weekly paper disks  
 SE/ESEDL – Manual Key or Electronic Lock w/password  
 CHAUT - Self Closing Door with stopper at 95°  
 HLO – Insulated Hole for External Probe Ø 25mm  
 CS1 - Sliding Aluminum or S/Steel Drawers  
 SH1 - Sliding AISI 304 S/Steel Shelves  
 SMS - SMS Alarm System  
 3G/WI-FI –Bridge Module on-line connection and remote control

**OPTION: INTERACTIVE DATA LOGGER TFT 5" (DTLSD3)**



**FREEZER TECHNICAL DRAWING**



**INNER SET-UP OPTIONS**



SLIDING S/S AISI 304 SCOTCH BRITE PERFORATED SHELVES ON BALL BEARINGS



SLIDING ALUMINUM OR S/S AISI 304 DRAWERS ON BALL BEARINGS WITH OR WITOUT DIVISORS

## FLEX PHARMA

### HIGH PERFORMANCE CONTROLLER WITH BUILT-IN CONNECTIVITY

Temperature controller for static and ventilated refrigeration units at positive and negative temperature dedicated to the health sector; built-in WiFi module and Data Logger.



#### EMPLOYMENT UNIT

Range [-86°C ... +15°C]

- BLOOD BANK
- HOSPITAL REFRIGERATORS
- PHARMACEUTICAL REFRIGERATORS
- LABORATORY REFRIGERATORS

#### FUNCTIONS

- Monitor probe and the simultaneous display
- Test circuit and battery recharge
- Warning and recording of network failure
- Electric-key output driver
- Alarms and faults list with circular register
- Data Logger with clock and maintenance supercap
- Anti-ice function with safety thermostat
- Consistency check between the installed probes
- Buzzer with auto-silence and reset function
- Wireless parameters programming
- OEM Cloud supervision
- User supervision through app and web pages
- Weekly graphic report by mail
- Email alert messaging

#### PANEL DISPLAY

- Dimensions: L182 x H38 x D23mm
- Drilling template: L150 x H31mm
- Low voltage powered by controller board
- Recessed, flush, under glass mounting
- 5 keys capacitive keyboard
- White and blue 7-segments display
- Data Logger (3Mb flash memory)
- Real Time Clock with super capacitor
- WiFi module built-in and alarm buzzer

#### CONTROLLER BOARD

- Power Supply: 230Vac - 50/60Hz
- Nr 3 NTC probes [-49.9, +99.9]°C Res. 0.1°C
- Nr 2 PT1000 probes [99.9, +99.9]°C Res. 0.1°C
- Nr 4 Digital inputs (door switch, HP, LP, Thermal)
- Nr 1 Backup battery 12Vdc input
- Nr 6 Relais: 30A-10A SPDT-10A-10A-8A-3A
- Nr 1 Alarm relay SPDT
- Nr 1 Led bar 12/24V power supply input
- Nr 1 Led bar dimmered output [max 2A]
- Nr 1 Electric key output driver
- On-board connector for inserting modules:  
Ethernet, Modbus TCP, Modbus RS485, Inverter with  
electronic fan modulation outputs.

Features subject to change without notice