UPRIGHT ULTRA LOW FREEZER MODEL **FTB-580FR**

CAPACITY: 578 liters

TEMPERATURE RANGE
Temperature range :   -40°C to -86°C
Temperature accuracy: ±1°C
Temperature uniformity: ±5°C
Ambient temperature: +10°C ..+32°C

DIMENSION AND WEIGHT
Ext: 903x980x1960 (LxDxH – mm)
Int: 620x716x1310 (LxDxH – mm)
Weight: kg. 300

VOLTAGE: 230V/50Hz
Max Power : 950W
Current : 7.5A
Energy consumption: 12 kWh/day (set -80 ℃ at 25 ℃ ambient)
Heat Rejected (BTU/Hour): 1706

SOUND LEVEL:
50 dB (A)

GAS REFRIGERANT:
    HC R290 and R170 Lower GWP, CFC Free

STRUCTURE
External structure in anti-corrosion color coating cold plate steel. Internal structure with rounded corners, color coating electric zinc steel plate. Stainless steel shelves

INSULATION
Insulation thickness of 90 mm on all sides of the structure, door included, obtained by VIP panel+CFC free foaming agent , for optimal product conservation and energy consumption saving. Thanks to the high efficency insulation, when the power is interrupted the warm up time i (measures the time taken for temperature to rise up from -80°C to -50°C   at 25°C ambient) is 260 minutes!

DOOR
1 door with quadruple gasket seal for perfect closure. Right side hinge. Key lock and provision for adding a padlock
4 inner doors, insulated panel, with eagle beak closure, single-gasketed for a perfect seal to minimize loss of cold air,.
Heated Pressure Equalization Port makes re-accessing the unit fast

INTERNAL EQUIPMENT
Equipped with 3 stainless steel shelves adjustable in height (4 positions).

REFRIGERATION SYSTEM
High efficiency HC refrigeration system cascade with 2 high and low stage compressors are hermetically sealed compressor Secop, designed for low temperature application. Sound level is extremely low. Extra-large air cooled condenser dissipates product heat content efficiently.

ELECTRONIC CONTROL SYSTEM:
Microprocessor controller, led display, readout of internal temperature, ambient temperature, and voltage during normal operation.
Audible buzzer and visible flashing light
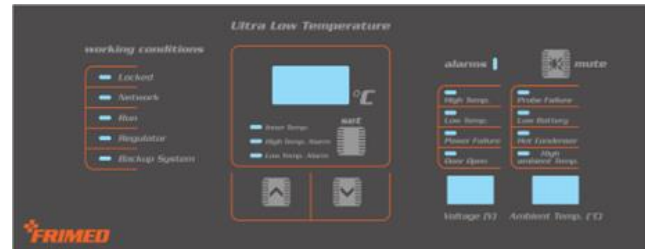for malfunction alarms including:

- High and low temperature,
- Power failure,
- Clean -filter, extremely high ambient
- Opening door alarm
- Automatic clean-filter alarm
- Sensor error alert

USB port to download temperature data
Remote alarm contacts
User-settable protection code for controls
Input voltage and ambient temperature shown simultaneously for ease of monitoring environmental conditions

BACK UP BATTERY:
Equipped with additional battery for signaling alarms and power failures. During a power failure, the system keeps the controller powered

AUTOMATIC VOLTAGE COMPENSATION SYSTEM
Detects and adjusts for variances in line voltage protecting the dual compressor system producing reliable storage conditions

STANDARD ACCESSORIES
- 3 stainless steel shelves , adjustable in height, mounted on sliding guides
- 4 pivoting wheels and two stabilizing feet
- key lock
- 3x1 power cable complete with schuko plug (UK plug on request)
- Anti-electrical interference filter
- Protection fuses
- Auto Voltage Safeguard
- Battery back-up
- Electronic control panel with alarm system
- Remote alarm contact
- USB port, to download the recorded temperature
- Acoustic-visual alarm signaling
- 2x pass through hole

OPTIONAL ACCESSORIES:

- Temperature Recorder
- RS232/485 Port
- CO2 Backup System: *independent refrigeration system for safety during a power failure or compressor broken*
  User adjustable temperature setting Simple to program and operate. Stainless steel input pipe design, allows for flexibility and ease of cylinder positioning
  Durable battery lasts up to 48 hours
  Liquid CO2 test button to ensure the backup system is working
  Low CO2 alarm system alerts the user when liquid CO2 bottle is low in liquid level
  The CO2 injection pipe is designed in combination of filter, to prevent the blockage of CO2 back-up system
- LN2 Backup System (NOT RECOMMENDED)
- Rack for 25 (5x5) boxes mm133x133x53,5H Total racks 16 total boxes 400

COMPLIANT EQUIPMENT TO:

Low Voltage Directive 2014/35/EU, Electromagnetic Compatibility Directive 2014/30/EU, Machinery Directive 2006/42/EC, European Directive 2011/65/EU (RoHS II).