



DEEP FREEZER – 86°C



Uniform
Temperature

Auto
Reset
on
Power Failure

Triple
Point
Sealing
For
Doors

Model: DF-86-850

MERINO INTERNATIONAL

Ahead... in medical technology innovations

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An ISO 9001:2008 Accredited Company



- * Temperature range of -50°C to -86°C with 1°C increment. Accuracy 1°C, Uniformity $\pm 3^\circ\text{C}$.
- * Pull down from ambient to -85°C less than 4 hours
- * Quick recovery of 15 minutes to set point depending on duration of time of door opening or power OFF
- * Capacity 850 Liters vertical. Can hold 40000 vials of 2 ml / 400 Cryo boxes of 2".
- * Works upto 32°C effectively.
- * Body made of 20 guage 1.2 mm galvanized steel powder coated & internal 304 SS upper chamber with sliding shelves with inner door & racks
- * Hold over 2 hours at 45°C 4 hrs from -80°C to -50°C. Does not drop more than 2.5 per hour
- * CFC free PUF 130mm 1" VIP Insulation on all walls and the outer door with heated ring to prevent vacuum & icing.
- * CFC & HCFC Free green refrigerant with two independent compressors, with their independent evaporators and cooling fans. Front panel Washable condenser filter with change indicator & down flow evaporator 1 HP with high pressure high temperature cut out.
- * Both compressors 2x1 HP energy saving are independent high & low stage system Hermetic sealed compressors cascaded CFC / HCFC Free to run between 190 to 270 V
- * Password protected Microprocessor based 4" touch screen with display control panel at eye level with Data log function that retains operation data for a preset period with option to directly transmit data to a PC for printout in excel format having year long system capacity with battery backup for alarms for 4 hours. Data logging & diagnostic software.
- * Data logger with 1 year record with USB port. RS485 4 GB. Key operated system.
- * Control panel audible & visual alarms for: High/low temperature, Door ajar battery low, Power failure, system failure, ambient temperature with its own 4 hour batteries. Self diagnostic. Real time. Remote monitoring with detailed event logs
- * Five height adjustable stainless steel sliding shelves insulated with polystyrene individual doors with silicon sealing insulated.
- * Independent outer door with latch lock. RFID lock
- * Suitable Voltage Stabilizer 5 kva to works at 190-270 V. Auto boost
- * Lockable Castor mounted.
- * 220 V ambient temperature upto -35°C RH 15-90%
- * Conforming to IEC 61010 norms CE certified.
- * Access port for Co2 backup.
- * Noise level < 56 db
- * Power consumption less than 12 kw per day at -80°C at 30°C
- * Cryo gloves- 1 pair
- * Ice scraper- 1
- * Optional : Remote temperature monitoring modules. Cryo boxes.