ULTRA DEEP FREEZER
Model CRYO 600
(604 Lt.)

CHARACTERISTICS:

- CAPACITY: 604 Lt.;
- EXTERNAL DIMENSIONS: cm 106 x 90 x 199 (W x D x H);
- INTERNAL DIMENSIONS: cm. 80 x 59 x 128 (W x D x H);
- CABINETS INTERNAL DIMENSIONS: cm. 80 x 59 x 30 (W x D x H);
- WEIGHT: 330 Kg.;
- POWER SUPPLY: 220 / 50-60 / 1 + G;
- POWER CONSUMPTION: Ca. 750 W (average referred at ambient T°C +23°C with a normal operation);
- TEMPERATURE RANGE: from -50°C to -86°C;
- CABINETS: 4 ea.
- CERTIFICATIONS: The Equipment is certified in accordance with:
  - CEI 66/5 UNI EN 61010-1/A2
  - CEI EN 61326-1
  - ISO 9001:2008 certified manufacturer;
  - MEDICAL DEVICE CLASS IIA 93/42 CE

MECHANICAL STRUCTURE:

- INTERNAL CABINET: AISI 304 stainless steel (AISI 316 on request) with polished external BA finish for best resistance and cleanliness;
- EXTERNAL CABINET: pre-painted steel
- THERMAL INSULATION: non-CFC, non-HCFC PU foam, min. thickness 140 mm;
- SEALING GASKET: Triple silicone rubber (prevention against air leaks);
- GASKET HEATING: frost formation prevention by means of the “hot gas” recirculation coils; high reliability and energy saving (it does not use additional power by electric heaters);
- COMPENSATION VALVE: for internal/external pressure compensation, to facilitate door open/close;
- INTERNAL SHELVES: 4 ea. stainless steel at standard;
- COUNTER DOORS: 4 ea. (for each shelves) with 20-mm. PU foam, to minimize cold loss when the external door is open;
• **DOOR:**
  one wing type, with one-hand minimum force opening system, highly ergonomic to facilitate closing/opening, complete with locking key;

• **COMPENSATION VALVE:**
  to facilitate the in/out pressure compensation, to ease the opening/closing actions;

• **WHEELS:**
  bearing wheels

**REFRIGERATION SYSTEM**

• **COOLING SYSTEM:**
  fully sealed cooling circuit with hermetic compressors arranged in cascade, complete with MCB protection and pressure gauge to monitor condensation pressure (MR);

• **EVAPORATING SYSTEM:**
  direct expansion s.steel coils thermally connected to the inner s.steel shelves surfaces, for a high internal temperature uniformity;

• **CONDENSING SYSTEM:**
  air-type high-surface finned condenser; the blower is controlled by an inverter to change its speed according to the air temperature at the condenser exit;

• **THERMAL PROBES:**
  2 ea. Pt100 probes, one used for thermoregulation, the second for alarm (switched to regulation in case of main probe failure);

• **SAFETY THERMOSTAT:**
  switches off the appliance from power supply in case of a main regulator breakdown, Temperature exceeds the max safety value (adjustable and preset by the user);

• **VOLTAGE STABILIZER:**
  the unit can be equipped **(optional)** with a voltage stabilizer, to protect the equipment from irregular voltage spikes, for a longer operative life and failure prevention.

**CONTROL SYSTEM:**

micro processor ARM9, the same processor applied in smart-phones

The controller has a video-graphic interface, done with a touch screen TFT display.

This controller, not only is equipped with a more powerful processor and with much capacity of memory RAM, if compared to the previous models, it has an user interface so direct, that anyone will find it really user-friendly.