

## LABORATORY COMBINATION REFRIGERATOR/FREEZER LCRF 2100 xPRO



- Structure: upright type, realized in stainless steel 18/10 AISI 304 both in-and outside. The storage compartment is divided vertically into 2 storage compartments fully insulated and completely independent between them, in the right and central door, the refrigerator compartment, while at the left door, the freezer. All the internal corners are rounded to make easy any cleaning operations and the internal bottom is tray type to contain spills
- Insulation: high density (40 Kg/m³) foamed-in-place polyurethane, with a thickness of 75 mm. CFC-free
- Feet: Nr 6 made in stainless steel 18/10 AISI 304, adjustable in height for levelling
- Insulated door: Nr 3, hinged, side-byside, all made with the same material
  and insulation as the rest of the
  structure (stainless steel 18/10 AISI 304
  always both in- and outside). The doors
  are provided with a removable magnetic
  rubber gasket in order to grant a perfect
  hermetic closing. The handles are flushfitting type so they do not increase the
  size of the refrigerator. The doors are
  also fitted with a spring loaded
  automatic closing device for openings

inferior 90° and with special door switches that stop the internal ventilation at the door opening (to limit the air cold loss) and light the internal lighting at every opening

- Internal equipment: Nr 9, (3 for each door), storage open wire shelves realized sheet steel with a strong plastic coating (rust-proof material). The shelves are mounted on special anti-tilt stainless steel slides that allow the shelf extraction and they can be easily removed and adjusted in height without the use of any tool. The special internal racking-system allows a great flexibility of the internal fitting with the possibility of interchange and combine both shelves and drawers (drawers optionally available)
  - Shelf dimensions (W x D cm): 53 x 65
  - Shelf loading capability (Kg): 35 (with uniformly stored material)
- **Internal lighting**: Nr 3 bulbs, mounted in the bottom part of the control panel, with automatic activation at every door opening through a special switch
- Control panel "xPRO": Nr 2, one for each compartment, both located in the top part of the structure (above the door). Both the controllers are microprocessor operating, with capacitive touch-buttons and colour display. The controller supervises all the appliance functions through the EEN (EVERmed Easy Navigation) interface, with icons and written messages, allowing a very intuitive interactivity between the appliance and the user, for an easy setting of all appliance functionalities according to needs and the control of the workings status. The control panel is battery operating in order to grant the functioning of the display and alarms even in case of power failure. The main functions panel are:
  - High resolution 3,5" TFT colour display, LED backlit, showing the appliance working status (actual temperature, compressor functioning, defrosting, alarm running, etc.) and allowing the surfing through the various controller menu for setting and checking purposes
  - Digital temperature displaying and adjusting with an accuracy of 0,1°C
  - Keyboard touch-buttons with automatic block safety protection, to avoid tampering from unauthorized persons
  - Dual-level safety access, with PIN code protections, on both ON/OFF switch and keyboard touch-buttons. Reprogrammable PIN codes for increased security from access to the unauthorized personnel

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- Back-up battery, with automatic recharging, granting till 48 hours autonomy for the control panel functioning in case
  of power failure. The charging status is continuously shown on the display for immediate checking
- Visual and acoustic alarm signalling (with automatic resetting) for:
  - high and low temperature, with limits programmable from the user through a dedicated menu
  - door ajar, delayed of 2 minutes to allow the standard operations. Programmable alarm delay through a dedicated menu
  - power failure
  - battery discharged
  - condenser dirty
  - anti-freezing evaporator
  - sensors failure
- Muting facilities for the acoustic alarms, with continuous warning indication on the display and automatic ring-back if the alarm situation persists. Programmable ring-back delay through a dedicated menu
- Test facilities for both control panel functioning, battery charging status and alarm limits
- Alarms log history for the latest 30 alarm conditions (not deletable), with the possibility of verify on the display, the alarm condition and all the related informations (starting time, ending time, highest/lowest peak of temperature reached where applicable)
- Door openings history for the latest 30 days (not deletable), with the possibility of verify on the display, the number of door openings, how many giving alarms and the total time that the door is kept open day-by-day
- Defrosts history for the latest 30 days (not deletable), with the possibility of verify on the type of defrost, starting time and the duration
- Internal ventilation setting facilities, in order to optimize the air-circulation according to the appliance using conditions and needs
- Real-time temperature chart, with surfing possibilities of the previous 52 hours of operations and zooming facilities for a better control of a period of interest
- Written indications on the display selectable from 3 languages (Italian, English and French)
- Pt1000 sensors for a better accuracy of the temperature control
- · NO/NC contact to remote the alarm signals
- Software upgrading facilities
- Cooling unit: Nr 2, one for each compartment, both top mounted, completely independent between them. Each condensing unit is compounded by Nr 1 hermetic compressors and Nr 1 finned condenser, air cooled through a fan. Also, in the ceiling of each storage chamber, is mounted the finned evaporator with copper pipes, that is housed into a stainless steel cover that incorporate the fan. All the mounted components are industrial grade to grant the maximum reliability
- Refrigerant : R404a CFC-free
- Refrigeration (both compartments): forced-air, through a fan, granting the maximum temperature uniformity and stability inside of the cabinet
- **Defrosting (both compartments)**: completely automatic, thermostat controlled. The condensate water is automatically channelled into an heated tray, located in the cabinet backside, for the automatic evaporation of the condensate water
- Temperature range: REFRIGERATOR COMP.: adjustable between 0°C / +15°C

: FREEZER COMP. : adjustable between -5°C / -25°C

- Voltage (V/ph/Hz): 220-230/1/50
- **Plug**: Schuko type (2 one for each compartment)
- Breakers: Nr 4 glass cartridge fuses with a rating of 10A and 16A, at protection of the appliance
- Noise level (dB(A)) : ≤ 54
- Gross capacity (litres): REFRIGERATOR COMP.: 1500

: FREEZER COMP. : 700

Net capacity (litres): REFRIGERATOR COMP.: 1365

: FREEZER COMP.: 625

• Dimensions (W x D x H cm) : 225 x 82 x 210

Net weight (Kg): 385

Packed dimensions (W x D x H cm): 232 x 98 x 224 (5,10 m³)

Gross weight (Kg): 425

## LABORATORY COMBINATION REFRIGERATOR/FREEZER LCRF 2100 xPRO

## **ACCESSORIES AVAILABLE**



Extra wire shelf



Wire basket



Plastic partitions for drawers



Kit of castors



Temperature chart recorder



Data logger function with USB port



UNIVERSAL SERIAL BUS

Internal electrical socket



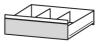
GSM/GPRS telephone dialer



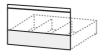
Wooden crate packing



Extra stainless steel wire shelf



Stainless steel drawer



Front top for drawers



Safety door lock with key



Electronic temperature printer



Ballasted sensor for simulation of product temperature alarm



Cable port with cover



Different voltage



- \* The declared performances are referred at +32°C ambient temperature, relative humidity of 70% and without any internal thermal mass (empty cabinet).
- \* Should it be necessary or useful without undermining any model essential features, technical and stylistic characteristics are subject to be changed without manufacturer's previous notice.

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