



MEDICAL-PHARMACEUTICAL REFRIGERATOR MPRR 1160 PRO



- **Structure** : upright type, realized in sheet steel epoxy coated white colour both in- and outside. The storage compartment is divided vertically into 2 storage compartments fully insulated and completely independent between them, with both at the right and left door a refrigerator compartment. The internal corners of both the chambers are rounded to make easy any cleaning operations and the internal bottoms are tray type to contain spills
- **Insulation** : high density (40 Kg/m³) foamed-in-place polyurethane, with a thickness of 50 mm. CFC-free
- **Feet** : Nr 4 made in stainless steel 18/10 AISI 304, adjustable in height for levelling
- **Glass doors** : Nr. 2, hinged, side-by-side, made a perimetrical aluminium frame and three layers of tempered insulating glass, with vacuum among the glass layers in order to increase the insulating rate. The doors are provided with a removable magnetic rubber gasket in order to grant a perfect hermetic closing. The handles are realized in aluminium, integrated in the door profile, full-height for an higher comfort of use. The doors are also fitted with a spring loaded automatic closing device for openings inferior then 90° and special door switches that stop the internal ventilation at the door opening (to limit the air cold loss)
- **Internal equipment** : Nr 6, (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 allows 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 55
- Shelf loading capability (Kg) : 35 (with uniformly stored material)
- **Internal lighting** : Nr 2 LED tubes (one for each compartment), mounted in the side wall of each chamber, with automatic activation both at every door opening and even through a touchpad on the control panel. They grant energy saving and prevent the internal heating produced by the traditional neon tubes
- **Control panel "PRO"** : 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 soft-touchpads and LCD display, allowing the control of all the functions and working status of the appliance (including alarms). They are battery operating in order to grant the functioning of the alarms even in case of power failure. The main functions of the control panel are :
 - Large (2 lines writings) LCD display, retro-illuminated white colour with black characters, indicating the appliance working status (compressor functioning, defrosting, alarm running, actual temperature, etc.)
 - Digital temperature adjusting and displaying with an accuracy of 0,5°C
 - Keyboard password protected with automatic locking, to avoid tampering from unauthorized persons
 - Back-up battery, with automatic recharging, granting till 48 hours autonomy for the control panel functioning in case of power failure
 - Visual and acoustic alarm signalling (with automatic resetting) for:
 - high and low temperature with limits programmable from the user
 - door ajar, delayed of 3 minutes to allow the standard operations (top door only)
 - power failure
 - battery discharged



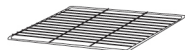
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- condenser dirty
- anti-freezing evaporator
- sensors failure
- Muting facilities for the acoustic alarms, with continuous warning indication on the display and automatic ring-back after 3 minutes if the alarm situation persists
- Test facilities for both battery charging status and alarm limits
- Alarms memory (not deletable) for the last 30 alarm conditions, with the possibility of checking from the display, the alarm condition, when the alarm is started, when it is ended and which is the highest or lowest peak reached from the temperature (if applicable)
- Events memory with the possibility of checking from the display, defrostings, door openings, relays status, etc.
- Pt1000 sensors for a better accuracy of the temperature control
- Internal ventilation setting
- NO/NC contact to remote the alarm signals
- RS 485
- **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 under cabinet, for the automatic evaporation of the condensate water
- **Temperature range** :
 - REFRIGERATOR COMP. 1 : adjustable between +2°C / +15°C
 - REFRIGERATOR COMP. 2 : adjustable between +2°C / +15°C
- **Voltage (V/ph/Hz)** : 220-230/1/50
- **Plug** : Schuko type (Nr 2, one for each compartment)
- **Breakers** : Nr 4 glass cartridge fuses with a rating of 10A, at protection of the appliance
- **Noise level (dB(A))** : ≤ 52
- **Gross capacity (litres)** :
 - REFRIGERATOR COMP. 1 : 600
 - REFRIGERATOR COMP. 2 : 600
- **Net capacity (litres)** :
 - REFRIGERATOR COMP. 1 : 580
 - REFRIGERATOR COMP. 2 : 580
- **Dimensions (W x D x H cm)** : 150 x 70 x 210
- **Net weight (Kg)** : 260
- **Packed dimensions (W x D x H cm)** : 158 x 98 x 224 (3,47 m³)
- **Gross weight (Kg)** : 300



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ACCESSORIES AVAILABLE



Extra wire shelf



Wire basket



Plastic partitions for drawers



Kit of castors



Temperature chart recorder



Data logger function with USB port



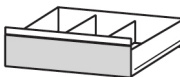
Internal electrical socket

**240V / 60 Hz**

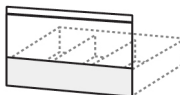
Different voltage



Extra stainless steel wire shelf



Stainless steel drawer



Front top for drawers



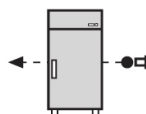
Safety door lock with key



Electronic temperature printer



Ballasted sensor for simulation of product temperature alarm



Cable port with cover



Wooden crate packing



Vers. July 13

* The declared performances are referred at +35°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.