



## PN45

Laboratory and pharmacy refrigerators  
+2° + 12° C from 100 to 1400 lt. > Capacity 450 lt



### PN45 Model

#### Structure

External structure in hot-dip galvanized steel, anti-corrosion treated and PVC film coated.  
Scotch-brite stainless steel internal structure.

#### Insulation

60 mm of insulation obtained by injection of high density ecological polyurethane CFC-free foam

for excellent product preservation and best energy saving

### **Door**

Self-closing solid door, with folding magnetic gasket on four sides for perfect closing. Right hand opening or left hand on request. Lock with key.

### **Light**

LED light (energy saving up to 70%, ecological) with automatic switch at door opening. Manual switch on control panel.

### **Shelves**

3 scotch-brite stainless steel shelves, removable and adjustable in height.

### **Temperature range**

Setting between +2°C and +12° C. Factory preset to +4°C. Digital adjustable with an increment of 0.1°C.

### **Refrigeration system**

Completely sealed, silent and highly efficient hermetic compressor and ventilated air condenser (suitable also for tropical countries). Internal ventilated evaporator. Forced-air cooling system conceived to achieve maximum temperature uniformity and stability inside the refrigerator even in case of frequent door openings. Evaporator fan shuts off during door openings. CFC-free R452a refrigerant gas. CFC/HCFC-free R290 refrigerant gas for European countries.

### **Defrosting**

Fully automatic defrosting cycle and auto-evaporation of condensed water.

### **Capacity**

450 litres

### **Voltage**

230V/50 Hz (on request 230V/60 Hz, 115V/60 Hz)

### **Absorption**

336 Watt

### **Gas**

CFC-free R452a refrigerant gas. CFC/HCFC-free R290 refrigerant gas for European countries.

### **Control panel and alarms**

Microprocessor control panel with colour 4.3" LCD touch screen and 4 keys. Display with 0.1°C resolution. Temperature monitoring detected by two independent PT1000 probes. Real time temperature graph (to be activated by end user). Optional humidity sensor. RS 232/RS 485 port. Digital calibration of probes. Visual and audible alarms of high and low temperature (by

means of independent probe), open door, condenser efficiency, damaged probes, power failure at electricity recovery, power failure with recording of data and alarms (by means of optional back-up battery), damaged or flat battery. Memory of latest alarms visible on display.

### **Data logger**

To record temperatures and alarms. Download data on USB pen drive.

### **Standard**

- 3 shelves
- Four one way wheels with stabilizing adjustable feet
- Lock with key
- Power cord with Schüko type plug (or British plug on request)
- Protection fuses (on power switch and electronic mainboard)
- RFI filter
- Password protected power switch and settings
- Electronic control panel with alarm system
- Remote contact (dry, volt-free) for alarm
- Data logger with USB port to download records and data
- Memory of latest alarms visible on screen
- Power failure at electricity recovery

### **Optional accessories**

- Sliding drawers (up to 5) in scotch-brite stainless steel, with see-through frontal side and telescopic ball-bearings slides
- Internal dividers for drawers
- Additional shelf
- Smooth shelf with borders
- Castors with two frontal brakes
- Weekly temperature chart recorder working with 1,5 V battery, equipped with 52 disks and a pen
- Back-up battery supplying energy to control panel in order to generate alarms in case of power failure
- GSM module to send SMS alarm messages to mobile phones, showing date, time, cabinet temperature and type of alarm
- LAN Port to connect the appliance via ethernet on PC to monitor correct functioning
- Safety thermostat
- Digital humidity sensor
- Test hole (Ø 25 mm)
- DIN 58345 conformity kit
- Electric digital key lock
- Power supply 115V/60Hz

### **External dimensions and unit net weight**

700x800x1840 (wxdxh - mm) - kg. 120

**Dimensions of packaging and shipping weight**

carton box on pallet: 750x850x1980 (wxdxh - mm) - kg. 134

wooden crate (option on request): 960x840x2260 (wxdxh - mm) - kg. 188

**Equipment in accordance with**

Low voltage Directive 2014/35/UE, Electromagnetic Compatibility Directive 2014/30/UE

*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. The picture doesn't necessarily show the product in its standard version.*

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