

Product technical data sheet

PLASMA-LABOR 2T 280 TOUCH

Cod. DML0282

Medical Device EMDN Z121702

General features



Temperature range	Chamber A adjustable between +2°C / +6°C
	Chamber B adjustable between -10°C/-20°C
	+4°C 0.1°C chamber A

Factory setpoint | Increment

-20°C | 0.1°C chamber B

Ambient working class| Climatic class

From +16°C to +32°C | N-ST

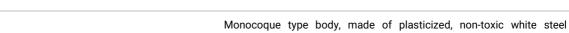
Nominal capacity 140 + 140 lt (4,94 + 4,94 cu ft)

Gross capacity | Net capacity 153 + 153 | t (5,40 + 5,40 cu ft) | 128 + 128 | t (4,52 + 4,52 cu ft)

External dimensions (W x D x H) 52 x 66,5 x 177,5 cm Internal dimensions (W x D x H) 44 x 51,6 x 56 cm (x 2)

Net weight without any internal fittings 103 kg

Package dimensions Weight	Cardboard on pallet 55 x 69 x 190 cm weight 120,7 kg
rackage unitensions weight	Wooden crate on pallet 60 x 77 x 193 cm I weight 132 7 kg



interior/exterior, coated with a special antibacterial-type film, or in inner 18/10 Aisi 304 stainless steel. Rounded corners and tray-type inner

bottom.

Insulation type

High density (43 kg/m3) in-walls injected PUF, without any CFC, water-

foam based.

Insulation thickness 40 mm

Structure

Feet No. 4 unidirectional rollers + No. 2 stabilizing feet

No.2 solid doors with ergonomic handles, self-closing thanks to the spring

hinge and 90°stop position.

Electric-digital lock with passwordDigital lock, the door is opened by touching an icon on the display. The function may be password protected. Mechanical release key supplied for

emergency opening.

Lightning Full LED, all length of inner chamber, automatic switching on at door

opening or from the display when the door is closed.

Energy saving functions Night & Day function

Provided shelves: No.04 (02+02) wire shelves supported by adjustable clips (dim.cm.40x49)

Disclaimer: Images are purely indicative. The features and the accessories of the products may differ according to model

and application.

	Refrigeration system	
Professional, ventilated, forced, hermetic compressor type.		
Refrigeration	No. 2 separate and independent cooling systems, one for each compartment.	
Defrost	Automatic, adaptive, including condensate water vaporization	
Refrigerant	Natural R290	
GWP ODP	3 0	

Electronic controller



Controller TOUCH controller

Electronic controller, FULL TOUCH SCREEN 7" display, resolution 0,1°C, Type of controller

easily readable from the distance, with a real time temperature graph and all

operational data always available on the homepage.

Power switch Integrated in user's interface Security features Settable user password

Visual and acoustic for temperature alarms failures such as:

Open door

High temperature

Low temperature Power failure

Clogged condenser

Any functional failure/faulty parts

Visual, acoustic alarm and fully independent recording system, with accuracy 0,1 °C thanks to the PT100 probes used for temperature detection. DMLP will take over alarming function when installed as integrated module on the Ect-f Touch controller board. The module is fed by standard rechargeable batteries (power failure alarm batteries included) to register

temperatures and events even in case of power outage.

Full recording of 10 years data (temperature and alarms), even in case of Temperature, data and event recording

power failure, on SD card and 1 year on flash memory, with dowload from

USB port. Latest 32 events displayed on the screen.

Settable temperature limits alarms

Alarm system

Control sensors

DMLP TOUCH Digital Monitor

NTC type probes for controller board + PT100 for DMLP monitor board

PT100 product temperature simulation probe

Safety thermostat Included, to prevent freezing and overheating

External contacts (Ethernet+ potential free) terminal board Connectivity for remote alarms

Modbus TCP/IP protocol available for data reading transmission

Data export USB, SD and RJ45.

Electrical and functional data

Standard power supply 230V / 1ph / 50Hz Standard plug type Schuko type "G"

Compressor protection Overload Protector included Power absorption/current kW 0,14 + 0,5 (Amp 0,9 + 2,3)

Inrush current Amp 2,5 + 6 <45 dBA Noise level Heat emission according to EN 12900 W 191

3,1 h chamber A (from +5°C to +15°C) Hold over time at 20°C ambient (air) 1,7 h chamber B (from -20°C to 0°C)

Energy consumption at 20°C ambient 4,6 kWh/24h

Compliancy

Directive 93/42/EEC and following and subsequent modifications and integrations, Class II annex IX, with conformity to the transitional provisions to Regulation (EU) (EU) 2017/745 and (EU) 2023/607

DIN 13277 Conformity (only for refrigerator compt.)

Directive 2011/65/EC (ROHS II) **Directives and regulations** Directive 2015/863/ EC (ROHS III)

Directive 2012/19/EC (RAEE) Regulation (EU) 517-2014 (F-gas) Regulation (EU) 1907-2006_REACH

Available certificate MDD CE

Application environment Non-flammable, non-explosive, non-corrosive, with adequate air exchange

Accessories available on request

GSM module	Pug-in module to notify on mobile phones, via sms, overall monitoring, alarms and failures of the refrigerator
Converter module type 4-20mA	(this accessory excludes the installation of the GSM module)
Wi-Fi module	Plug-in module to connect to, monitor and manage the refrigerator wirelessly
FIOCCHETTI COLD EYES cloud monitoring	Annual monitoring service, Cloud based, featuring the notification of alarms and failures from pc thanks to a dedicated app, including SMS messages and emails, also allowing the full download of recorded data.
FIOCCHETTI LAN SUPERVISOR	Monitoring system allowing the supervision of one or several refrigerators thanks to the access to historical data and to present equipment status. It allows the creation and export of temperature graphs of selected periods or of specific hours. A single license enables the connection of up to 100 refrigerators installed in the same building and connected to the same net (e.g., a hospital).
Additional wire shelf kit	
Extractible drawer on telescopic slides	
Extractible drawer without inner dividers on telescopic slides	
Plexiglas front panel for extractible drawer	
Glass door for chiller compartment	
Castors kit with brakes	
Internal Socket (no.1)	
35 mm access port with stopper	
Port hole mm 15	
Humidity sensor	
PT100 sensor with free contacts	
Mains voltage stabilizer	
Non-standard plug and cable	
Power 220V/60Hz	
Power 115V/60Hz	
Wooden crate package	