

### Product technical data sheet

## **EMOTECA TWIN 250 TOUCH**

Monocoque type body, made of plasticized, non-toxic white steel interior/exterior, coated with a special antibacterial-type film, or in

inner 18/10 Aisi 304 stainless steel. Rounded corners and tray-type

Cod. DMW0252

Medical Device EMDN Z121701

#### **General features**



Intended use	Refrigerator intended to store blood, fluids or body tissues for transfusion, administration or introduction into the body.
Temperature range	Adjustable +2°C / +6°C
Factory setpoint   Increment	+4°C   0.1°C
Ambient working class   Climatic class	From +16°C to +32°C   N-ST
Nominal capacity	250 lt (8,8 cu ft)
Gross capacity $ $ Net capacity	264 lt (9,3 cu ft)   264 lt (9,3 cu ft)
Blood bags capacity (450 ml)	150 (with 5 drawers)
External dimensions (WxDxH)	60x66x163,5 cm
Internal dimensions (WxDxH)	50x48,5x107,5 cm
Net weight without any internal fittings	99 kg
Package dimensions   Weight	Cardboard on pallet 65 x 72 x 180 cm   weight 144,5 kg
	Wooden crate on pallet 72 x 77 x 180 cm   weight 154,5 kg



Structure

	inner bottom.
Insulation type	High density (43 kg/m³) in-walls injected PUF, without any CFC, environmental-friendly, water-foam based.
Insulation thickness	70 mm rear / 50 mm sides
Feet	No. 4 unidirectional rollers + No. 2 stabilizing feet
Door	No. 1 door made of tempered glass, triple thickness, self-closing thanks to the spring hinge and $90^{\circ}$ stop position.
Electric-digital lock with password protection	Digital 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 drawers	No. 5 fully extractible drawers made of aluminium, with dividers (WxDxH): cm 11,8x40x7,5 (nr 3 compartments)



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

	Refrigeration system
Cooling System	No. 2 cooling units with reciprocating operation, with 2 controllers and double security
Refrigeration	Professional, ventilated, forced, hermetic compressor type.
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, easily readable from the distance, with a real time temperature graph

and all operational data always available on the homepage.

ECT-F TOUCH controller activates alternatively the 2 compressors at each operating cycle and, in the event of a failure of the first one, it

switches cooling to the performing one.

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 Temperature, data and event recording of power failure, on SD card and I year on flash memory, with download

from USB port. Latest 32 events displayed on the screen.

Settable temperature limits alarms Yes

NTC type probes for controller board + PT100 for DMLP monitor board **Control sensors** 

PT100 product temperature simulation probe

Safety thermostat Included, to prevent freezing and overheating

Connectivity for remote alarms

**DMLP TOUCH Digital Monitor** 

transmission

Type of controller

Alarm system

External contacts (Ethernet+ potential free) terminal board

Modbus TCP/IP protocol available for data reading

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 0,17 (Amp 1)

Inrush current Amp 3 Noise level <45 dBA

Heat emission according to EN 12900 W 25

Hold over time at 20°C ambient (air) 4,1 h (from +5C to +15°C)

Energy consumption at 20°C ambient 0.6 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

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

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

exchange

# Accessories available on request

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GSM module	Plug-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).
Solid type door	
Plexiglas front panel for extractible drawer	
Castors kit with brakes	
Internal Socket (no.1)	
35 mm access port with stopper	
Port hole mm 15	
Humidity sensor	
PTI00 sensor with free contacts	
Mains voltage stabilizer	
Non-standard plug and cable	
Power 220V/60Hz	
Power 115V/60Hz	
Wooden crate package	