

## General features



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

<b>Intended use</b>	Refrigerator intended to store blood, fluids or body tissues for transfusion, administration or introduction into the body.
<b>Temperature range</b>	Adjustable +2°C / +6°C
<b>Factory setpoint   Increment</b>	+4°C   0.1°C
<b>Ambient working class   Climatic class</b>	From +16°C to +32°C   N-ST
<b>Nominal capacity</b>	1500 lt (52,97 cu ft)
<b>Gross capacity   Net capacity</b>	1355 lt (47,87 cu ft)   1355 lt (47,87 cu ft)
<b>Blood bags capacity (450 ml)</b>	672 (with 14 drawers)
<b>External dimensions (WxDxH)</b>	144x83x207 cm
<b>Internal dimensions (WxDxH)</b>	130x67x150 cm
<b>Net weight without any internal fittings</b>	223 kg
<b>Package dimensions   Weight</b>	Cardboard on pallet 148x86x214 cm   weight 346 kg Wooden crate on pallet 156x91x214 cm   weight 361 kg
<b>Structure</b>	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 inner bottom.
<b>Insulation type</b>	High density (43 kg/m <sup>3</sup> ) in-walls injected PUF, without any CFC, environmental-friendly, water-foam based.
<b>Insulation thickness</b>	70 mm
<b>Feet</b>	No. 4 adjustable feet
<b>Door</b>	No.2 doorS made of tempered and low emissivity glass, self-closing thanks to the spring hinge and 90°stop position.
<b>Electric-digital lock with password protection</b>	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.
<b>Lightning</b>	Full LED, all length of inner chamber, automatic switching on at door opening or from the display when the door is closed.
<b>Energy saving functions</b>	Night & Day function
<b>Provided drawers</b>	No. 14 fully extractible drawers made of aluminium, with dividers (WxDxH): cm 15x60x7,5 (nr 3 compartments)

## Refrigeration system

<b>Refrigeration</b>	Professional, ventilated, forced, hermetic compressor type.
<b>Defrost</b>	Automatic, adaptive, including condensate water vaporization
<b>Refrigerant</b>	Natural R290
<b>GWP   ODP</b>	3   0



<b>Controller</b>	TOUCH controller
<b>Type of controller</b>	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.
<b>Power switch</b>	Integrated in user's interface
<b>Security features</b>	Settable user password
<b>Alarm system</b>	Visual and acoustic for temperature alarms failures such as: <ul style="list-style-type: none"> <li>• Open door</li> <li>• High temperature</li> <li>• Low temperature</li> <li>• Power failure</li> <li>• Clogged condenser</li> <li>• Any functional failure/faulty parts</li> </ul>
<b>DMLP TOUCH Digital Monitor</b>	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.
<b>Temperature, data and event recording</b>	Full recording of 10 years data (temperature and alarms), even in case of power failure, on SD card and 1 year on flash memory, with download from USB port. Latest 32 events displayed on the screen.
<b>Settable temperature limits alarms</b>	Yes
<b>Control sensors</b>	NTC type probes for controller board + PT100 for DMLP monitor board PT100 product temperature simulation probe
<b>Safety thermostat</b>	Included, to prevent freezing and overheating
<b>Connectivity for remote alarms transmission</b>	External contacts (Ethernet+ potential free) terminal board Modbus TCP/IP protocol available for data reading
<b>Data export</b>	USB, SD and RJ45.

## Electrical and functional data

<b>Standard power supply</b>	230V / 1ph / 50Hz
<b>Standard plug type</b>	Schuko type "G"
<b>Compressor protection</b>	Overload Protector included
<b>Power absorption/current</b>	kW 0,4 (Amp 1,8)
<b>Inrush current</b>	Amp 6
<b>Noise level</b>	<55 dBA
<b>Heat emission according to EN 12900</b>	W 125
<b>Hold over time at 20°C ambient (air)</b>	6,5 h (from +5°C to +15°C)
<b>Energy consumption at 20°C ambient</b>	2,5 kWh/24h

## Compliance

<b>Directives and regulations</b>	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 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
<b>Available certificate</b>	MDD CE
<b>Application environment</b>	Non-flammable, non-explosive, non-corrosive, with adequate air exchange

## Accessories available on request

<b>GSM module</b>	Plug-in module to notify on mobile phones, via sms, overall monitoring, alarms and failures of the refrigerator
<b>Converter module type 4-20mA</b>	(this accessory excludes the installation of the GSM module)
<b>Wi-Fi module</b>	Plug-in module to connect to, monitor and manage the refrigerator wirelessly
<b>FIOCCHETTI COLD EYES cloud monitoring</b>	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.
<b>FIOCCHETTI LAN SUPERVISOR</b>	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).
<b>Solid type door</b>	
<b>Plexiglas front panel for extractible drawer</b>	
<b>Castors kit with brakes</b>	
<b>Internal Socket (no.1)</b>	
<b>35 mm access port with stopper</b>	
<b>Port hole mm 15</b>	
<b>Humidity sensor</b>	
<b>PT100 sensor with free contacts</b>	
<b>Mains voltage stabilizer</b>	
<b>Non-standard plug and cable</b>	
<b>Power 220V/60Hz</b>	
<b>Power 115V/60Hz</b>	
<b>Wooden crate package</b>	

### FIOCCHETTI SCIENTIFIC S.R.L.

Headquarter: Via Panagulis, 48 - 42045 Luzzara (RE) Italy  
VAT No. IT00934960352

Phone +39 0522 976232 - Fax +39 0522 976028

[www.fiocchetti.com](http://www.fiocchetti.com) - Email: [info@fiocchetti.it](mailto:info@fiocchetti.it) - Pec: [fiocchetti@pec.it](mailto:fiocchetti@pec.it)