

## General features



Disclaimer:

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

<b>Temperature range</b>	Adjustable -25°C / -10°C
<b>Factory setpoint   Increment</b>	-20°C   0.1°C
<b>Ambient working class  Climatic class</b>	From +16°C to +32°C   N
<b>Nominal capacity</b>	400 lt (14,1 cu ft)
<b>Gross capacity   Net capacity</b>	347 lt (12,3 cu ft)   347 lt (12,3 cu ft)
<b>External dimensions (W x D x H)</b>	60 x 65,5 x 196 cm
<b>Internal dimensions (W x D x H)</b>	50 x 48,5 x 140 cm
<b>Net weight without any internal fittings</b>	101 kg
<b>Package dimensions   Weight</b>	Cardboard on pallet 65 x 72 x 213 cm   weight 113 kg Wooden crate on pallet 72 x 77 x 213   weight 125 kg

<b>Structure</b>	Monocoque type body, made of plasticized, non-atoxic 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 rear / 50 mm sides
<b>Feet</b>	No.4 unidirectional rollers + No.2 stabilizing feet
<b>Door</b>	No.1 solid door with ergonomic handle all door length, self-closing thanks to the spring hinge and 90° stop position.
<b>Lightning</b>	Full LED, all length of inner chamber, automatic switching on at door opening.
<b>Energy saving functions</b>	Night & Day function

<b>Internal fittings</b>	Customizable and height adjustable, it can mix independently: <ul style="list-style-type: none"> <li>• wire shelves supported by adjustable clips (dim.cm 46x45)</li> <li>• fully extractible drawers made of aluminium, with dividers (WxDxH): cm 11,8x40x7,5 (nr 3 compartments)</li> <li>• fully extractible drawers made of aluminium, without dividers (WxDxH): cm 39x40x7,5</li> <li>• st. steel wire drawers on telescopic slides (WxDxH): cm 43,5x40,5x6,2</li> <li>• st. steel wire shelves supported by adjustable clips (dim.cm.46x45)</li> </ul>
<b>Suggested internal fittings</b>	No. 4 wire shelves

## 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

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## Electronic controller



<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, signaled when power is back.</li><li>• Clogged condenser</li><li>• Any functional failure/faulty parts</li></ul>
<b>Data and event recording</b>	Latest 32 events displayed, 10 years data recorded on SD card and 1 year on flash memory, downloadable from USB port
<b>Settable temperature limits alarms</b>	Yes
<b>Control sensors</b>	NTC type probes for controller board + PT100 for DMLP monitor board (optional)
<b>Safety thermostat</b>	Included, to prevent overheating
<b>Connectivity for remote alarms transmission</b>	Set-up on the electronic controller board, can be remoted on request. Modbus TCP/IP protocol available for data reading
<b>Temperature recording</b>	Full recording of temperatures and alarms data
<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 0,32 (Amp 2,3)
<b>Inrush current</b>	Amp 5
<b>Noise level</b>	<45 dBA
<b>Heat emission according to EN 12900</b>	W 187
<b>Hold over time at 20°C ambient (air)</b>	1,8 h (from -20°C to 0°C)
<b>Energy consumption at 20°C ambient</b>	4,5 kWh/24h

## Compliance

<b>Directives and regulations</b>	Directive 2006/42/EC (Machine directive) Directive 2011/65/EC (ROHS II) Directive 2015/863/ EC (ROHS III) Directive 2012/19/EC (RAEE) Directive 2014/30/EC (EMC) Directive 2014/35/EC (LVD) Regulation (EU) 517-2014 (F-gas) Regulation (EU) 1907-2006_REACH
<b>Available certificate</b>	CE
<b>Application environment</b>	Non-flammable, non-explosive, non-corrosive, with adequate air exchange

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## Accessories available on request

<b>Visual and acoustic alarm for power failure</b>	No.8 rechargeable batteries, AA, Ni-MH type, environmental friendly and easily replaceable, to feed power failure alarm
<b>External contacts (Ethernet+ potential free) terminal board</b>	
<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>GSM module (including buffer batteries)</b>	Pug-in module to notify on mobile phones, via sms, overall monitoring, alarms and failures of the refrigerator
<b>Converter module type 4-20mA (including contacts terminal board)</b>	External contacts included (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>Compliance kit to DIN 13277</b>	Includes the electric digital lock, buffer batteries for power failure alarm signal and the external terminal board with potential free contact
<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. Data download and their management are made possible by CAPTURE software, supplied on board on the SD card, through which tables and graphs are created
<b>PT100 product temperature simulation probe</b>	
<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>Additional wire shelf kit</b>	
<b>Extractible drawer on telescopic slides</b>	
<b>Extractible drawer without inner dividers on telescopic slides</b>	
<b>St. steel wire shelf kit</b>	
<b>St. steel wire drawer on telescopic slides</b>	
<b>Lockable drawer for narcotics H mm 100</b>	
<b>Rack 140x420x150H mm (max 3 per each shelf)</b>	
<b>Plexiglas front panel for extractible drawer</b>	
<b>Castors kit with brakes</b>	
<b>35 mm access port with stopper</b>	
<b>Port hole mm 15</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>	

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