# Fiochetti

#### **Product technical data sheet**

## **TER 140 ECT-F TOUCH**

Cod. TER0142







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

GWP | ODP

|   | General features  |  |
|---|---|--|
| Temperature range                         | Adjustable +15°C / +30°C  |  |
| Factory setpoint   Increment              | +22°C   0.1°C   |  |
| Ambient working class   Climatic<br>class | From +16°C to +38°C   N-ST  |  |
| Nominal capacity                          | 140 lt (4,94 cu ft)   |  |
| Gross capacity   Net capacity             | 153 lt (5,40 cu ft)   128 lt (4,52 cu ft)   |  |
| External dimensions (WxDxH)               | 52x63,5x93,5 cm   |  |
| Internal dimensions (WxDxH)               | 44x51,6x56 cm   |  |
| Net weight without any internal fittings  | 51 kg   |  |
| Package dimensions   Weight               | Cardboard on pallet 55x69x113 cm   weight 59,5 kg   |  |
|   | Wooden crate on pallet 60x77x124 cm   weight 70,5 kg  |  |
| Structure                                 | Monocoque type body, made of plasticized, non-toxic white steel<br>interior/exterior, coated with a special antibacterial-type film, or in<br>inner 18/10 Aisi 304 stainless steel. Rounded corners and tray-type<br>inner bottom.  |  |
| Insulation type                           | High density (43 kg/m³) in-walls injected PUF, without any CFC, water-foam based.   |  |
| Insulation thickness                      | 40 mm   |  |
| Feet                                      | No.4 adjustable small feet  |  |
| Door                                      | No.1 solid door with ergonomic handle, self-closing thanks to the spring hinge and 90°stop position.  |  |
| Lightning                                 | Full LED, all length of inner chamber, automatic switching on at door opening.  |  |
| Energy saving functions                   | Night & Day function  |  |
| Internal fittings                         | <ul> <li>Customizable and height adjustable, it can mix independently:</li> <li>wire shelves supported by adjustable clips (dim.cm.49x40)</li> <li>fully extractible drawers made of aluminium, with dividers (WxDxH): cm 10x45x7,5 (nr 3 compartments)</li> <li>fully extractible drawers made of aluminium, without dividers (WxDxH): cm 33x45x7,5</li> </ul> |  |
| Suggested internal fittings               | No. 2 wire shelves  |  |
|   | <b>Refrigeration system</b>   |  |
| Refrigeration                             | Professional, ventilated, forced, hermetic compressor type  |  |
| Defrost                                   | Automatic, adaptive, including condensate water vaporization  |  |
| Refrigerant                               | Natural R290  |  |

3|0

### Electronic controller



Data export

| Controller                                     | TOUCH controller  |  |
|--|---|--|
| Type of 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.   |  |
| Power switch                                   | Integrated in user's interface  |  |
| Security features                              | Settable user password  |  |
| Alarm system<br>Data and event recording       | <ul> <li>Visual and acoustic for temperature alarms failures such as:</li> <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> <li>Latest 32 events displayed, 10 years data recorded on SD card and 1 year on flash memory, downloadable from USB port</li> </ul> |  |
| Settable temperature limits alarms             | Yes   |  |
| Control sensors                                | NTC type probes for controller board + PTI00 for DMLP monitor board (optional)  |  |
| Safety thermostat                              | Included, to prevent freezing and overheating   |  |
| Connectivity for remote alarms<br>transmission | Set-up on the electronic controller board, can be remoted on request.<br>Modbus TCP/IP protocol available for data reading  |  |
| Temperature recording                          | Full recording of temperatures and alarms data  |  |

#### **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 (Amp 0,9)           |  |
| Inrush current                      | Amp 2,5                     |  |
| Noise level                         | <40 dBA                     |  |
| Heat emission according to EN 12900 | W 20                        |  |
| Energy consumption at 20°C ambient  | 0,5 kWh/24h                 |  |

USB, SD and RJ45.



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

#### Accessories available on request

| Visual and accustic alarm for power failure     No.5 rechargeable batteries, AA, Ni-MH type, environmental intendity<br>and easily rolocable, to food power failure alarm       External contacts (Ethernet+ potential free) terminal board     Digital lock, the door is opened by touching an icon on the display. The<br>function may be possword protected. Mechanical release key supplied<br>for emergency opening.       Effective-digital lock with password protection     Digital lock, the door is opened by touching an icon on the display. The<br>function may be possword protected. Mechanical release key supplied<br>for emergency opening.       GSM module (including buffer batteries)     Plug-in module to notify on mobile phones, we are, overall<br>mentoting, altering and database and supplication of<br>the GSM module (to including contacts terminal<br>board)       Wi-Fi module     Plug-in module to connect to, monitor and manage the refrigerator       Wi-Fi module     Plug-in module to connect to, monitor and manage the refrigerator       DMLP TOUCH Digital Monitor     Plug-in module to connect to, monitor and manage the refrigerator       Plug-in module to connect to, monitor and manage the refrigerator     Convert and alterna of tallures and manage the refrigerator       Plug-D TOUCH Digital Monitor     Plug-in module to connect to, monitor and manage the refrigerator       Plug-D TOUCH Digital Monitor     Annual monitoring service, Cloud based, featuring the notification of<br>alterna and failures items power lature alterna to the secone to based on the SD card, through which<br>data.       Plug-D Forbus D Plug-D P   | Glass door   |   |  |
|---|--|---|--|
| Electric-digital lock with password protection         Digital lock, the door is opened by tooching an item on the digday. The function may be password protected. Mechanical release key supplied for emergency opening.           CSM module (including buffer batteries)         Pluga in module to motify on mobile phones, via same, overall monitoring, alarms and failures of the refigerator down of the CSM module.           Converter module type 4-20mA (including contacts terminal back)         Extensil contacts included (this accessor) excludes the installation of the CSM module.           Wi-Fi module         Pluga in module to connect to, monitor and manage the refigerator wirelessly.           Wi-Fi module         Visual, accusic alarm and fully independent recording system, with accuracy OI *C thanks to the PTOO probuse load for temperature of the visual accusic alarm and fully independent recording system, with accuracy OI *C thanks to the DTOO probuse failure alarm batteria included (by the visual accusic alarm and fully independent recording system, with accuracy OI *C thanks to the DTOO probuse failure alarm batteria included for their manage the refigerator module back is and graphs are created           DMLP TOUCH Digital Monitor         Annual monitoring service, Cloud based, faituring the notification of alarms and failures from per thanks to a dedicated app. including MD received data.           FIOCCHETTI COLD EVES cloud monitoring         Annual monitoring service, Cloud based, faituring the notification of alarms and failures from per thanks to a dedicated app. including MD refigures on telescopic sildes           FIOCCHETTI COLD EVES cloud monitoring         Monintoring service, Cloud based, faituring the notification of alarm   | Visual and acoustic alarm for power failure                    |   |  |
| Electric-digital lock with password protection         function may be password protected. Mechanical release key supplied<br>for emergency opening.           GSM module (including buffer batteries)         Plug-in module to noble phones, via sma, overall<br>monitoring, alarms and fallues of the refrigerator<br>wite sets?           Wi-FI module         Plug-in module to notify on mobile phones, via sma, overall<br>monitoring, alarms and fallues of the refrigerator<br>wireless?           DMLP TOUCH Digital Monitor         Plug-in module to connect to, monitor and manage the refrigerator<br>wireless?           DMLP TOUCH Digital Monitor         Visual acoustic alarm and fully independent recording system, with<br>accuracy 01 C thanks to the interportune e and possible by<br>caparity in module to connect to, monitor and manage the refrigerator<br>wireless?           PILOP TOUCH Digital Monitor         Visual acoustic alarm and fully independent recording system, with<br>accuracy 01 C thanks to the interport remover even in case of power<br>inciparted module on the Ect fouch controller board. The module is<br>fold by standard rechargeable batteries (power failue)           PIDOP product temperature simulation probe         Annual monitoring service, Cloud based, featuring the notification of<br>alarms and failures from pertures to a decicated app, including SMS<br>masses and emails, also allowing the full downled or present<br>equipment status. It allows that or cares to historical data and to present<br>equipment status. It allows that or cares to historical data and to present<br>equipment status. It allows that reserts to historical data and to present<br>equipment status. It allows the relation and export of temperature<br>graphs of selected periods or of specific hours. A single license enables<br>the connection of up to 100 refige                                      | External contacts (Ethernet+ potential free) terminal board    |   |  |
| Converter         monitoring, alarms and failures of the refigerator           Converter         Contracts included this accessory excludes the installation of<br>the CSM module)           Wi-Fi module         External contracts included this accessory excludes the installation of<br>the CSM module)           Wi-Fi module         Plug-in module to contracts included this accessory excludes the installation of<br>the CSM module)           Wi-Fi module         Plug-in module to contracts includes the installation of<br>the CSM module on the Ect-Touches the PTIO probes used for temperature<br>detection. DMLP will take over alarming function when installed as<br>integrated module on the Ect-Touch on the installed as<br>integrated module on the Ect-Touch on the installed as<br>integrated module on the Ect-Touch on the installed as<br>included to register temperatures and events even in case of power<br>included to register temperatures and events even in case of power<br>includes and graphs are created           PTIO0 product temperature simulation probe         Annual monitoring service, Cloud based, featuring the notification of<br>alarms and failures from pc thanks to a decicated app, including SMS<br>messages and emails, asia allowing the full download of recorded<br>data.           FIOCCHETTI COLD EVES cloud monitoring         Annual monitoring system allowing the supervision of one or several<br>refigerators thanks to the access to indicated app, including SMS<br>messages and emails, asia allowing the full download of recorded<br>data.           FIOCCHETTI LAN SUPERVISOR         Monitoring system allowing the supervision of one or several<br>refigerators thanks to the access to indicate in the same building<br>and connected to the same net (e.g. a hospital).   | Electric-digital lock with password protection                 | function may be password protected. Mechanical release key supplied for emergency opening.  |  |
| beard         the GSM module)           Wi-Fi module         Plug-in module to connect to, monitor and manage the refrigerator wirelessly.           Wi-Fi module         Visual, acoustic alarm and fully independent recording system, with accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 probes used for temperature accuracy 0.1°C thanks to the PTI00 product temperature simulation probe           PTI00 product temperature simulation probe         Annual monitoring service, Cloud based, featuring the notification of alarms and failures form pc thanks to a dedicated app, including SMS message and emails, asia allowing the full downlead of precenting accuracy 0.0°C there are not posson of one or several refrigerators thanks to the access to thatical at and to present equipment status. I allow the creation and export of temperature accuracy 0.0°C there are not posson of one or several refrigerators thanks to the same building and connected to the same net (e.g., a hospital).           Additional wire shelf kit         Extractible drawer on telescopic sildes           Extractible drawer on telescopic sildes         Castors kit with brakes           Internal Socket (no.1)         Sam access port with stopper           Dintolem IIS         Finternal Socket (no.1)   | GSM module (including buffer batteries)                        |   |  |
| Writelessly         Writelessly           DMLP TOUCH Digital Monitor         Visual, acoustic alarm and fully independent recording system, with accuracy 0.1°C thanks to the PTOUCh Digital Monitor           DMLP TOUCH Digital Monitor         Site adva.acoustic alarm and fully independent recording system, with detection. DMLP will kee wer alarming function when installed as integrated module on the Est 47 touch controller board. The module is fed by standard rechangeable batteries (power failure alarming that the set on outge. 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           PTI00 product temperature simulation probe         Annual monitoring service, Cloud based, featuring the notification of alarms and failures from pc thanks to a decloated app, including SM messages and emails, also allowing the full download of recorded data.           FIOCCHETTI COLD EVES cloud monitoring         Annual monitoring service, Cloud based, featuring the notification of alarms and failures from pc thanks to a decloated app, including SM messages and emails, also allowing the full download of recorded data.           FIOCCHETTI LAN SUPERVISOR         Annual monitoring system allowing the supervision of one or several refigierators thanks to the acces to historical data and to present equipment status. It allows the createn and export of temperature graphs of salected periods or of specific hours. A single (clones enables the connected to the same net (e.g. a hospital).           Additional wire shelf kit         Extractible drawer on telescopic sildes           Extractible drawer without inner dividers on telescopic sildes         Extractible dra   |  | the GSM module)   |  |
| DMLP TOUCH Digital Monitor       accuracy Q1 °C thanks to the PTOD probes used for temperature detection. DMLP will kee over alarming function when installed as integrated module on the Ect Flox controller board. The module is feed by standari (changeable batteries (power failure a) moter possible by CAPTURE software, supplied on board on the SD card, through which tables and graphs are created         PTI00 product temperature simulation probe       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 COLD EVES 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       Annual monitoring service, Cloud based, featuring the notification of a data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to historical data and to present equipment status. It allows the teaces to histore to the asame building SMS the teaces present equipment status. | Wi-Fi module   |   |  |
| FIOCCHETTI COLD EYES cloud monitoring       Annual monitoring service, Cloud based, featuring the notification of alarms and failures from p 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 equipament tatus. It allows the recetion 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       Castors kit with brakes         Internal Socket (no.1)       35 mm access port with stopper         One-way small castors       Castors with otopper         Port hole mm 15       Humidity sensor         Humidity sensor       FIOOC sensor with free contacts         Mains voltage stabilizer       Non-standard plug and cable         Power 115V/60Hz       Power 115V/60Hz   | DMLP TOUCH Digital Monitor                                     | accuracy 0,1 °C thanks to the PTI00 probes used for temperature<br>detection. DMLP will take over alarming function when installed as<br>integrated module on the Ect-f Touch controller board. The module is<br>fed by standard rechargeable batteries (power failure alarm batteries<br>included) to register temperatures and events even in case of power<br>outage. Data download and their management are made possible by<br>CAPTURE software, supplied on board on the SD card, through which |  |
| FIOCCHETTI COLD EYES cloud monitoring       alarms and failures from pc thanks to a decicated app, including SMS messages and emails, also allowing the full download of recorded data.         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       Internal Socket (no.1)         One-way small castors       Internal Socket (no.1)         St mm access port with stopper       Port hole mm 15         Humidity sensor       Internal Socket (no.1)         P100 sensor with free contacts       Mains voltage stabilizer         Non-standard plug and cable       Power 220V/60Hz         Power 220V/60Hz       Enternal Socket (no.1)   | PT100 product temperature simulation probe                     |   |  |
| FIOCCHETTI LAN SUPERVISOR       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 on telescopic slides       Plexiglas front panel for extractible drawer         One-way small castors       Castors kit with brakes         Internal Socket (no.1)       35 mm access port with stopper         Port hole mm 15       Humidity sensor         PI100 sensor with free contacts       Mains voltage stabilizer         Non-standard plug and cable       Power 220V/60Hz  | FIOCCHETTI COLD EYES cloud monitoring                          | alarms and failures from pc thanks to a dedicated app, including SMS<br>messages and emails, also allowing the full download of recorded<br>data.   |  |
| Extractible drawer on telescopic slides         Extractible drawer without inner dividers on telescopic slides         Plexiglas front panel for extractible drawer         One-way small castors         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 115V/60Hz  | FIOCCHETTI LAN SUPERVISOR                                      | refrigerators thanks to the access to historical data and to present<br>equipment status. It allows the creation and export of temperature<br>graphs of selected periods or of specific hours. A single license enables<br>the connection of up to 100 refrigerators installed in the same building   |  |
| Extractible drawer without inner dividers on telescopic slides         Plexiglas front panel for extractible drawer         One-way small castors         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 115V/60Hz  | Additional wire shelf kit                                      |   |  |
| Plexiglas front panel for extractible drawer         One-way small castors         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 115V/60Hz   | Extractible drawer on telescopic slides                        |   |  |
| One-way small castors         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 115V/60Hz  | Extractible drawer without inner dividers on telescopic slides |   |  |
| 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  | Plexiglas front panel for extractible drawer                   |   |  |
| Internal Socket (no.1)<br>35 mm access port with stopper<br>Port hole mm 15<br>Humidity sensor<br>PTIO0 sensor with free contacts<br>Mains voltage stabilizer<br>Non-standard plug and cable<br>Power 220V/60Hz   | One-way small castors  |   |  |
| 35 mm access port with stopper<br>Port hole mm 15<br>Humidity sensor<br>PTI00 sensor with free contacts<br>Mains voltage stabilizer<br>Non-standard plug and cable<br>Power 220V/60Hz<br>Power 115V/60Hz  | Castors kit with brakes  |   |  |
| Port hole mm 15<br>Humidity sensor<br>PT100 sensor with free contacts<br>Mains voltage stabilizer<br>Non-standard plug and cable<br>Power 220V/60Hz<br>Power 115V/60Hz  | Internal Socket (no.1)   |   |  |
| Humidity sensor         PT100 sensor with free contacts         Mains voltage stabilizer         Non-standard plug and cable         Power 220V/60Hz         Power 115V/60Hz  | 35 mm access port with stopper                                 |   |  |
| PTI00 sensor with free contacts<br>Mains voltage stabilizer<br>Non-standard plug and cable<br>Power 220V/60Hz<br>Power 115V/60Hz  | Port hole mm 15  |   |  |
| Mains voltage stabilizer         Non-standard plug and cable         Power 220V/60Hz         Power 115V/60Hz  | Humidity sensor  |   |  |
| Non-standard plug and cable Power 220V/60Hz Power 115V/60Hz   | PT100 sensor with free contacts                                |   |  |
| Power 220V/60Hz<br>Power 115V/60Hz  | Mains voltage stabilizer                                       |   |  |
| Power 115V/60Hz   | Non-standard plug and cable                                    |   |  |
|   | Power 220V/60Hz  |   |  |
| Wooden crate package  | Power 115V/60Hz  |   |  |
|   | Wooden crate package   |   |  |