PHARMACY LINE
Refrigerators and freezers

fiocchetti
THE COLD MANUFACTURER

100% INNOVATION

TEMPERATURE-CONTROLLED REFRIGERATORS FOR PHARMACIES

For more than 50 years, Fiocchetti has been designing and manufacturing refrigerators and freezers dedicated to the use in pharmacies, laboratories and hospitals. The respect of the most stringent sector regulations has always been assured: medical grade products and thermosensitive, biological materials, requiring an accurate control over storage conditions are continuously granted an ideal environment.

WIDE RANGE OF REFRIGERATORS FOR PHARMACIES

Fiocchetti's refrigerators series, available with controllers **ECT-F**, **ECT-F PLUS** and **ECT-F TOUCH**, fit perfectly into your pharmacies thanks to their appealing and clean design, updated in terms of style and performances, to always store your products at best.

REFRIGERATORS with single or double temperature ranges settings, **FREEZERS** for celiac disease products, **COMBINED** (refrigerator + freezer chamber) are available in a large variety of capacity and dimensions, with customizable internal fittings.

DESIGN

The continuously improved structures for both dimensions and shape will maximize the use of inner space. The chassis in white **antibacterial coated steel** grants a perfect cleaning of the inner chamber and of the outer structure, offering rounded bottom and corners. Some models are also available with interior in AISI 304 stainless steel.

The full set of equipment features a **triple layer, tempered glass door**, anti-fog type and thermally insulated. This will allow you keeping the stored goods under control, while preventing unnecessary door opening. On request, some models may be solid-door type. The all-length, aluminium door handle grants a firm handgrip. Door gasket is magnetic type; a door stop device will keep door open at 90°.

The ceiling-type evaporator will increase the actual storage capacity of refrigerators since the inner space can be fully used.

The **enhanced accessibility to the inner space** will make routine maintenance and after sales service easier; for instance, the monthly programmed condenser cleaning is simplified thanks to the quick access to the detachable front condenser panel.

POWER SAVING AND RESPECT FOR THE ENVIRONMENT

Internal LED lighting: it decreases up to 75% power consumption and improves the life of LED bars in time, when compared to bulbs. Standard for ECT-F TOUCH range, the Night&Day function allows to increase the set point of a certain value and to manage the light in a smart way, to assure a further energy saving during nighttime, closing time or holidays.

Lower energy consumption: while preserving the top-level performance of the refrigerators, energy consumption is significantly reduced. This goal is reached by using highly efficient compressors, which allow adaptive defrost only when necessary, and thanks to the improved insulation thickness, capable of decreasing thermal dispersion.

Use of "green" cooling gases: we only use environment-friendly cooling mediums, fully respecting F-gas regulation.

Selection of **long-lasting, recyclable, eco-friendly materials, low environment impact type** such as aluminium and water-based foamed-in structures, for good manufacturing and end-of-working-life practices.

CUSTOMIZATION

Fiocchetti's refrigerators and freezers can be prearranged with:

- shelves made of white plasticized steel, mounted on anti-tilt clips.
- aluminium drawers, fully extractible on telescopic slides, handy, lightweight, and durable, supplied either with internal dividers to arrange small medicines boxes neatly, or without any inner compartment to accommodate larger items.
- drawers made of wire steel, fully extractible on telescopic slides, with higher sides.
- baskets made of steel for larger models (i.e. 700 and 1500), also on telescopic slides, with high volume storage capacity.
- castors, the front ones with brakes, to easily move the refrigerators when needed.
- lock with key for ECT-F and ECT-F PLUS, or electric-digital type for ECT-F TOUCH.

CONNECTIVITY FEATURES

Touch series of our refrigerators and freezers offers connectivity options either in a local net via the supplied Ethernet port and optional monitoring software (Fiocchetti Lan Supervisor), or from remote through a WI-FI module, or finally thanks to a Cloud based application (Fiocchetti Cold Eyes). This system includes features such as SMS and email delivery, a dedicated App and a comprehensive supervision at the distance for a prospective immediate solution of technical issues.
Ask our sales department for further information!

Fiocchetti Cold Eyes
Download the app mobile.

DOWNLOAD FOR ANDROID

Download on the App Store

series
MEDIKA® 2T

+2°C +15°C

Professional scientific refrigerators MEDIKA® 2T have been specifically designed for the sector of pharmacies: two settable temperature ranges, two cooling units and two independent chambers allow the best management of different types of stored goods.

Each chamber can be independently set between +2° and +15°and has acoustic and visual alarms functions A historical log of these events can be visualized on the display.

The series spans from a capacity of 280 to 1500 litres, with triple layers glass doors, and allows to customize the desired internal fittings with shelves, drawers and/or extractible baskets, according to the various models.

MEDIKA® 2T series refrigerators fully comply to Pharmacopeia and to the European sector regulation. They are available with ECT-F, ECT-F PLUS ECT-F TOUCH controller, according to the required specifications.

Medika	Medika	Medika	Medika
280 2T	**400 2T**	**500 2T**	**600 2T**

ECT-F
ECT-F
PLUS

Medika
280 2T

280 lt
(140+140)

L **520**
P **665**
H **1755**
H **1665***

Medika
400 2T

400 lt
(200+200)

L **600**
P **660**
H **2020**

Medika
500 2T

500 lt
(250+250)

L **720**
P **760**
H **2080**

Medika
600 2T

600 lt
(300+300)

L **1040**
P **660**
H **1960**

* in the ECT-F version

series
MEDIKA® 2T

+2°C +15°C

Medika
800 2T

Medika
1000 2T

Medika
1500 2T

ECT-F
ECT-F
PLUS

Medika
800 2T

800 lt
(400+400)

L **1200**
(60+60)
P **660**
H **1960**

Medika
1000 2T

1000 lt
(500+500)

L **1440**
(720+720)
P **760**
H **2080**

Medika
1500 2T

1500 lt
(750+750)

L **1500**
(750+750)
P **845**
H **2100**

series
MEDIKA®

+2°C +15°C

The single-range temperature and single-chamber refrigerators belonging to **MEDIKA®**, series, which can be set from +2 to +15 °C, are available in a wide range of capacities to answer the most various demands of medicines and vaccine storage: from 100 litres for small facilities, up to 1500 litres for pharmaceutical warehouses or depots.

Inner space can be organized with shelves, drawers and/or baskets in various dimensions and type, according to the offered model.

Refrigerators are also available with solid door (LABOR series) and ECT-F, ECT-F PLUS or ECT-F TOUCH controller type: each range includes the comprehensive alarms notifications to answer the demands of the sector regulations, plus the specific features of each controller.

Medika	Medika	Medika	Medika	Medika
100	**140**	**170**	**200**	**250**

ECT-F
ECT-F
PLUS

Medika
100

100	lt
L	**520**
P	**635**
H	**815**
H	**710***

Medika
140

140	lt
L	**520**
P	**635**
H	**935**
H	**830***

Medika
170

170	lt
L	**600**
P	**660**
H	**1285**

Medika
200

200	lt
L	**600**
P	**660**
H	**1460**

Medika
250

250	lt
L	**600**
P	**660**
H	**1635**

* in the ECT-F version

serie
MEDIKA®

+2°C +15°C

Medika	Medika	Medika	Medika	Medika
300	400	500	700	1500

ECT-F
ECT-F
PLUS

Medika
300

300 lt
L **520**
P **660**
H **1960**

Medika
400

400 lt
L **600**
P **660**
H **1960**

Medika
500

500 lt
L **720**
P **760**
H **2080**

Medika
700

700 lt
L **750**
P **845**
H **2100**

Medika
1500

1500 lt
L **1440**
P **830**
H **2070**

series
VISION & VISION 2T
-15°C -20°C   +2°C +15°C -15°C -20°C

Refrigerators and combined refrigerators and freezers, with glass-type doors, developed for the storage and display of frozen or fresh foodstuffs for celiac-disease patients.

In combo units, the refrigerator chamber can be destined to the preservation of drugs The triple layer, low- heat emissive glass doors grant insulation while allowing the instant verification of the content, without any door opening. The ergonomic door handle in anodized aluminium, all-length type, assures a firm and safe handgrip. The adaptive defrost prevents any ice formation.

The safety level granted for your foodstuffs for celiac-disease patients is the same destined to drugs. Every model is available with ECT-F, ECT-F PLUS or ECT-F TOUCH controller.

Vision	Vision	Vision	Vision	Vision
400	700	400 2T	500 2T	700 2T

ECT-F
ECT-F
PLUS

Vision
400

400	lt
L	600
P	670
H	1960

Vision
700

700	lt
L	750
P	870
H	2100

Vision
400 2T

400	lt
(200+200)	
L	600
P	660
H	2020

Vision
500 2T

500	lt
(250+250)	
L	720
P	760
H	2080

Vision
700 2T

700	lt
(350+350)	
L	720
P	855
H	2030

DOCTOR 85
0°C +20°C

H

P

L

Undercounter and embedded refrigerator, with solid door, display with alarm visible even during power failure.

Compact, scientific refrigerator, undercounter, and which can be embedded, when necessary, our model **DOCTOR 85 has been especially designed to fit in when space is reduced and still drugs need to be stored at controlled temperature.**

Our professional refrigerator **DOCTOR 85** joins professional components, safety devices and a comprehensive internal fitting: it offers nr 3 drawers with inner dividers, nr 1 shelf, lock with key, **ECT-F PLUS DIN** controller, with buffer batteries to signal alarms during power failure, anti-freeze safety device and dry contact to remote alarms signal.
The inner led light will turn on at door opening.

Reversible door-hinge side, ergonomic handle, removable in case necessary, when the refrigerator is to be embedded into existing furniture.

Safety key lock supplied as standard.

Inner and outer structure are made of plastic, thermoformed material, while the air ventilation zone is made of AISI 304 stainless steel.

ECT-F PLUS

Doctor
85

87	lt
L	**54**
P	**53,6**
H	**81,5**

ECT-F TOUCH

Top-level supervising electronic joining the highest safety features and the easiest operation performance for everybody.

The refrigerators and freezers belonging to ECT-F TOUCH range offer temperatures and data recording over the last 10 years; information can be downloaded either on a pc through a supplied SD card (software included) or directly though the USB port situated on the front panel.

The 7" touch screen display is highly user-friendly and provides a comprehensive set of control and command functions, beside the access to the following recorded data:
- Real temperature, precision 0,1°. The set-point can be modified directly from the display.
- Real-time graph of the refrigerator temperature, customizable, to display up to 3 different probes curves (Ect-f thermostat, evaporator, condenser, and, if present, humidity probe, Dmlp Touch probe and additional product temperature simulation sensor or second chamber).
  The multi-trace graph shows in real-time the temperature variations of the last 6 hours, with zoom-in features, when necessary.
- Energy consumption values (over the last 24h, instant, etc.)
- Status of the refrigerator
- Input power value. Status of batteries (optional)
- Icon-type commands to access the settings and user's panel - light - electric - digital lock (optional) - graph details.

100% SAFETY

Total control over the "refrigerator as a system" and data recording of every possible event connected to the life of the unit.
- Double feeding, double compressor relay and double defrost relay to grant the working of the equipment even in case of irreversible failure.
- Alarms signalization (temperature/open door/power loss) and failures
- Protection against high condenser temperature
- Protection against low evaporator temperature
- Protection against temperature-setting controller sensor
- Safety device: anti-freeze safety (for refrigerators only) and overheating
- Multi-users, selective management of functions and authorizations via customized passwords

100% DIAGNOSTIC

Self-diagnostic, with functional tests and failures prevention.
- Notification of clogged condenser
- Notification of cooling system low in gas
- Notification of unbalanced sensors (discrepant temperature reading)
- Notification of pcb board excessive temperature
- Notification of low mains input

100% CONNECTIVITY

- Data recording on SD card and inner flash memory, sampling every 30 sec.
- USB port for software update and data download
- Ethernet port RJ45 for connection to LAN
- Slot for SIM Card. (optional GSM module)
- DMLP Touch Digital Monitor module (optional) for continuous recording via independent PT100 sensor
- Mod-bus communication protocol for the connection to pre-existing supervision systems
- Wi-fi module, optional
- Additional monitoring systems:
  • Cloud base monitoring: **FIOCCHETTI COLD EYES,** gateway with included micro-Sim for remote equipment monitoring, SMS delivery, email and dedicated app, data display and download
  • For local net: **FIOCCHETTI LAN SUPERVISOR** allows the connection of up to 100 devices in the same local net, with visualization software and alarms via email

TUTORIAL function:
integrated interface to display at any time the multimedia files for both users (instructions videos and use and maintenance manual) and service (electric wiring, exploded view files).

Software Capture 5.2 supplied within the SD Card.

Temperatures daily graph with search options by date.

Instructions video for correct use and maintenance.

ECT-F & ECT-F PLUS

Latest generation controllers, resolution 0,1° and alphanumeric, backlit display, menu available in 5 languages. Clear and detailed information regarding the working status of the equipment is available on the display, as well as all detected temperature anomalies.

A password, when activated, will identify two distinct access levels for the controller (i.e. User and Service), protecting working parameters, the ON/OFF (on request), as well as the operative set-point. The interactive display can be customized by the user and permit the instant check of all the settings for a quick troubleshooting (Doctor View function). Special functions such as Stop-On-Door and advanced adaptive defrost allow a highly advanced management of this phase, reducing thermal peak variations and consumption.

Alarms signals for:
- Open door
- High temperature
- Low temperature
- Power failure (when power is back and if temperature has exceeded the high limit)
- Clogged condenser

Beside the features of **ECT-F**, **ECT-F PLUS** will also provide:
- Rechargeable back up batteries for up to 48H (24H for 2T ranges)
- Temperature display during power failure
- Min/max temperature data log
- Dry contact to remote alarms signalization

Standard SPECIAL FUNCTIONS

- **Advanced defrost:** thanks to the continuous monitoring of minimum and maximum evaporator temperatures reached during each cooling cycle, the controller automatically triggers a defrost in case of excessive ice on the evaporator coil.
Advantages: lower power consumption and greater temperature homogeneity.

- **Stop on Door:** this function is activated when the door is opened. The compressor stops cooling preventing the excessive lowering of evaporator temperature.
Advantages: lower thermal shock after door opening

CONTROLLER FEATURES	ECT-F	ECT-F PLUS	ECT-F TOUCH
Resolution (°C)	0,1	0,1	0,1
User interface	LCD	LCD	7" Touchscreen
Acoustic and visual alarms	✓	✓	✓
Power failure alarm (displayed when power is back)	✓	✓	✓
Power failure alarm	✗	✓	●
Enregistrement alarmes et données	✓	✓	✓
Alarms and events recording	✗	✓	✗
Min/Max temperatures recording	✗	●	✓
Real-time temperature and data recording	✗	✗	✓
USB/SD/SIM ports	✗	✗	✓
Night & Day function	✗	✗	✓
SAFETY			
Dry contact to remote alarms signalization	✗	✓	✓
Antifreeze and overheating safety	✗	●	✓
Power and tension sensors	✗	✗	✓
ALARMS AND FAILURE (ACOUSTIC AND VISUAL)			
High/low temperature	✓	✓	✓
High temperature caused by power failure	✗	✓	●
Open door	✓	✓	✓
High temperature caused by open door	✗	✗	✓
Clogged condenser	✓	✓	✓
High condenser / Low evaporator temperature	✓	✓	✓
Temperature sensors error	✓	✓	✓
DIAGNOSTIC			
Tension and power monitoring of electric loads	✗	✗	✓
Self-diagnose tests on electric loads	✗	✗	✓
AVAILABLE ACCESSORIES			
Rechargeable back-up batteries	✗	✓	●
Independent recording system DMLP	✗	✗	●
Electric-digital key lock	✗	✗	●
Mechanical key lock	●	●	✗
Module GSM - Module Wi-Fi	✗	✗	●
Cloud monitoring system (Fiocchetti Cold Eyes)	✗	✗	●
Connection to an external monitoring system	✗	Modbus RTU	Modbus TCP/IP
Conformity DIN 13277 for drugs	✗	●	●

● Optional ✓ Standard ✗ Not available

APPLICATION FIELDS

PHARMACIES AND VACCINES

HOSPITAL, MEDICAL AND LABORATORY

PRIVATE CLINICS AND MEDICAL PRACTICES

LIFESCIENCE AND INDUSTRY

TRASFUSION BLOOD BANKS AND PLASMA FREEZERS

CONNECTIVITY AND MONITORING SOLUTIONS

MORTUARY CHAMBERS AND REFRIGERATORS

REFRIGERATORS FOR TRANSPORT

fiocchetti
THE COLD MANUFACTURER

FIOCCHETTI SCIENTIFIC S.R.L.
Via Panagulis, 48 - 42045 Luzzara (RE) - ITALY
Tel. +39 0522 976232 - fax +39 0522 976028
info@fiocchetti.it - www.fiocchetti.com

The manufacturer reserves the right to modify the features of the products shown in catalogue for technical or commercial reasons.
The pictures may not reflect the standard configuration