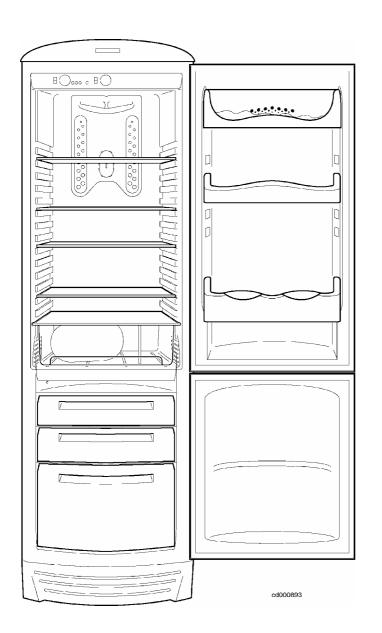
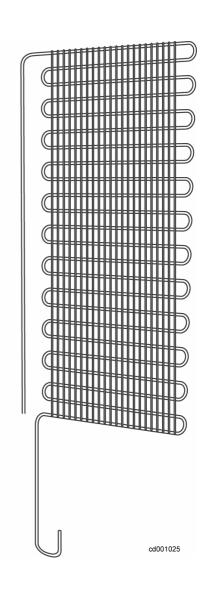


SERVICE MANUAL REFRIGERATION





© ELECTROLUX ZANUSSI S.p.A. Spares Operations Italy Corso Lino Zanussi, 30 I - 33080 PORCIA / PN (ITALY)

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EUROFLEC

With exposed condenser

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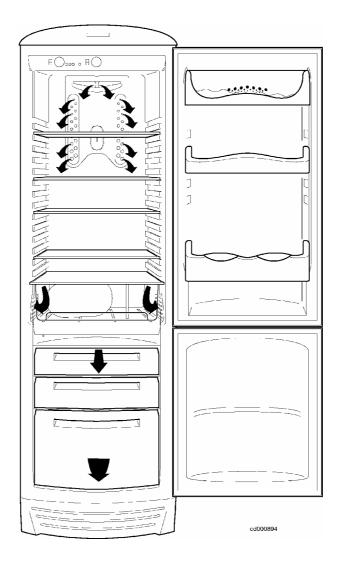
1. Introduction

1.1. Presentation

The **EUROFLEC** with exposed condenser is a new combined refrigerator based on the EUROFLEC models, but with different versions produced in the Fuenmayor factory in Spain.

The appliance features a single compressor and a total no-frost system. The operating cycles are controlled electronically. A flap-operated mechanical thermostat controls the temperature inside the refrigerator compartment.

The EUROFLEC comprises various models which differ from each other in the different size of the freezer and refrigerator compartments and therefore in the number of shelves and drawers.



The PNCs of the **EUROFLEC** with exposed condenser begin with 928 405 xxx as for the EUROFLEC model, therefore, in order to know the model please refer to the specific spare parts list.

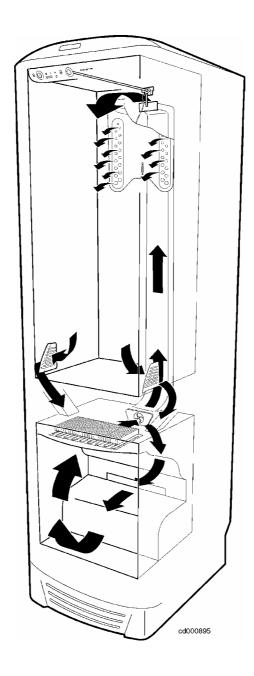
1.2. EUROFLEC: total nofrost

The EUROFLEC is a total no-frost appliance, and as such its operation is based exclusively on the battery evaporator in the freezer compartment, which cools the air; the fan circulates the air.

A duct embedded in foam channels the cold air into the refrigerator compartment, where the flap-operated mechanical thermostat regulates the flow of cold air and thus the temperature inside the refrigerator compartment. The air returns to the freezer compartment through two outlets located at each side of the vegetable drawer.

Operation of the compressor (switching on and off) is controlled by an NTC sensor located externally (in air) in the freezer compartment. The electronic system periodically defrosts the ice which accumulates on the evaporator battery; defrosting terminates when a second NTC sensor, positioned in contact with the evaporator battery, detects a temperature of +15°C.

The main characteristic of the control system used in the EUROFLEC is the fact that the defrost operating cycles are not of fixed duration, but calculated on the basis of the time required for defrosting (see chapter 5).



2. Characteristics

2.1. Dimensions and volumes

The EUROFLEC models are numbered from 1 to 9 (n° 7 has been eliminated):

Model no.		1	2	3	4	5	6	8	9
Height	mm	1950	1800	1800	1800	1650	1650	1750	1950
Width	mm	600	600	600	600	600	600	600	600
Depth	mm	595	595	595	595	595	595	595	595
Gross vol. freezer	litres	94	126	94	157	94	126	94	126
Gross vol. fridge	litres	267	193	230	156	193	155	217	230
Total gross vol.	litres	361	319	324	313	287	281	311	336

2.2. Technical characteristics

Performance:

Refrigerator	from 1°C to 10°C
Freezer	4 stars
Energy class	Α
Climate class	SN,N,ST
Coolant	R600a

Compressor:

See the specific spare parts list for each model!

Evaporator fan:

Voltage (direct current)	V	18
Power	W	3

Defrosting heater:

Power at 230V	W	250
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Drain duct heater:

Power at 230V W 43.5

Safety overheating switches:

Opening	°C	55
Closure	°C	45

Settings for refrigerator compartment:

Position of thermostat knob	Cut-in	Cut-out
stand by*	+16°C	+13°C
3	+10°C	+7°C
5	+7°C	+4°C
7	+4°C	+1°C

^{*} In this position, the thermostat does NOT completely blocks the passage of cold air coming from the freezer compartment.

Settings for freezer compartment:

Position of thermostat knob	Cut-in	Cut-out	Alarm
0	-15°C	-16°C	-12°C
3	-18°C	-19°C	-12°C
5	-21°C	-22°C	-12°C
7	-23°C	-24°C	-12°C

Normal operating times:

Pre-determined**	Hours	6
Minimum	Hours	4
Maximum	Hours	25

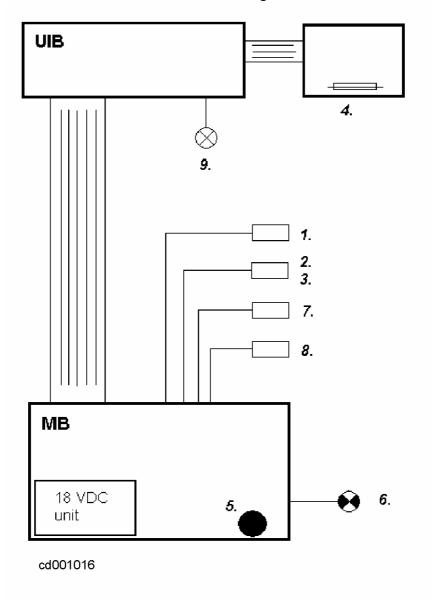
^{**} A six-hour operating cycle is performed each time the appliance is switched on.

Defrosting:

Standard time	Minutes	22
Maximum time	Minutes	30
Temp. for end of defrosting	°C	+15

3. Diagrams

3.1 Functional diagram



The control system of the EUROFLEC consists of a **UIB** user interface board and a **MB** control and power board with the following inputs and outputs:

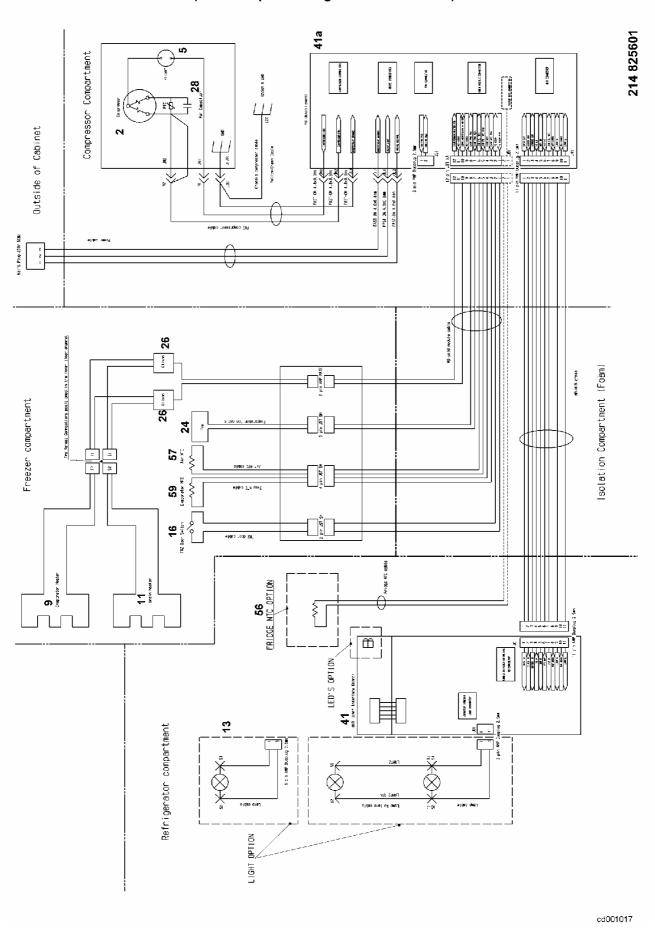
INPUTS:

- 1. Freezer door switch;
- 2. NTC sensor on evaporator;
- 3. NTC sensor in air;
- 4. Refrigerator door switch (reed element with foam-embedded magnet in door);

OUTPUTS:

- 5. buzzer;
- 6. compressor;
- 7. evaporator fan;
- 8. defrosting heaters;
- 9. refrigerator compartment light;

3.2 Electric wiring (see the specific diagram of the model !)

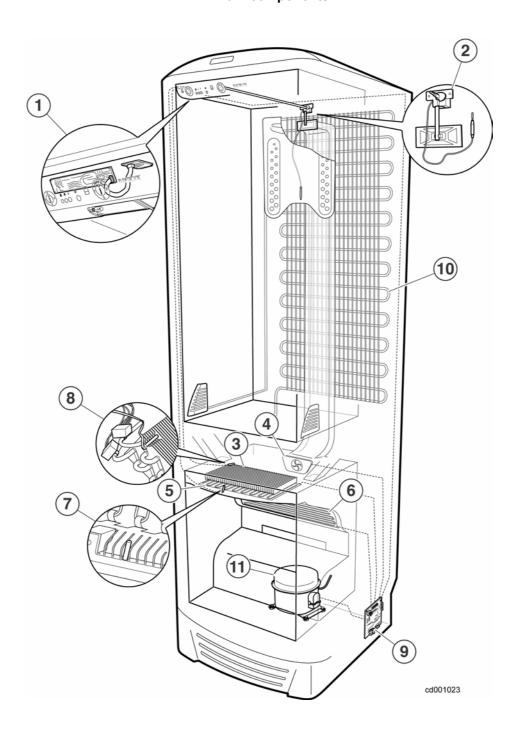


Legend:

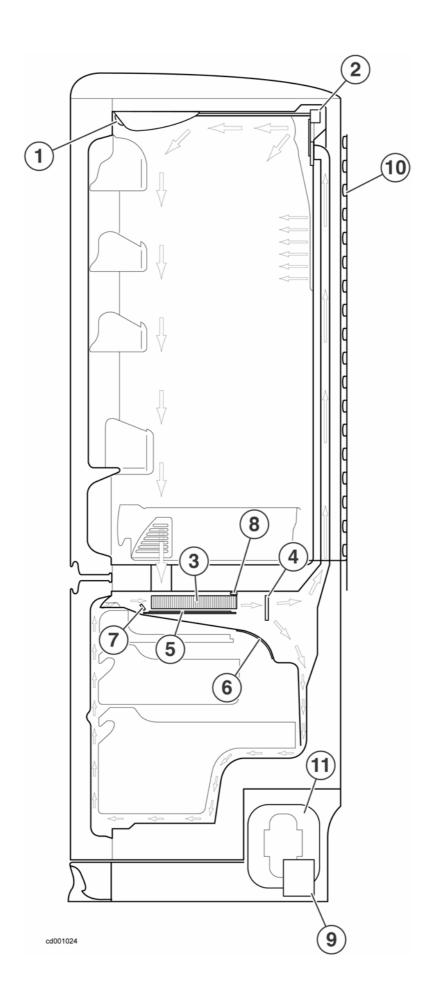
- 2. compressor;
- 5. overload cut-out;
- 9. evaporator defrosting heater;11. drain duct defrosting heater;
- 13. refrigerator compartment light;
- 16. freezer door switch;
- 24. evaporator fan;26. safety thermal switches;
- 28. running condenser;
- 41. display board (UIB);
- 41a. control and power board (MB);
- 56. NTC sensor refrigerator (optional);
- 57. NTC sensor freezer in air;
- 59. NTC sensor freezer evaporator;

4. Components

4.1. Main components

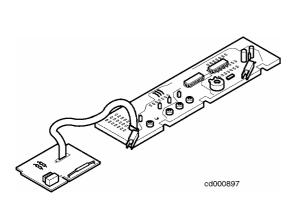


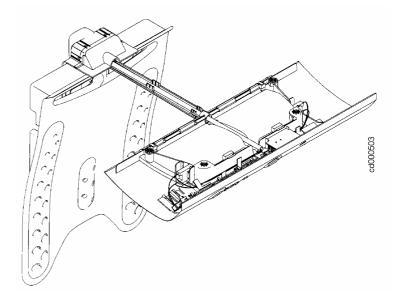
- display board (UIB);
 flap-thermostat;
- 3. evaporator battery;
- evaporator fan;
 defrosting heater;
- 6. drain duct heater;
- 7. NTC sensor in air;
- 8. thermal switch (+55°C) and NTC sensor on evaporator;
- 9. control and power board (MB);
- 10. condenser;
- 11. compressor;



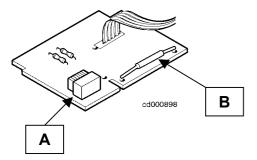
4.2. UIB Display board

The UIB display board is placed inside the refrigerator behind the control panel and contains the push-buttons, the LEDs and the refrigerator door switch (reed element).

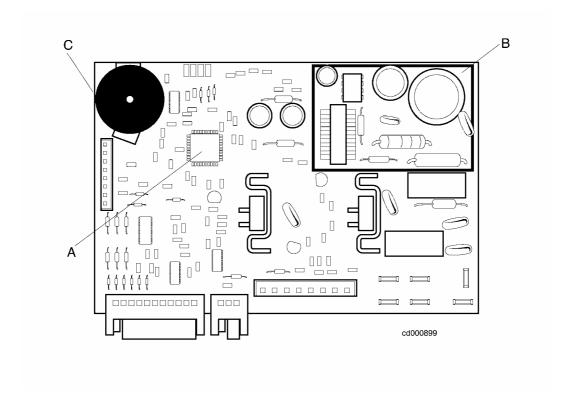




For the version with ELECTROLUX mark, in the reed element board (**B**) there are also the two LEDs (red and green) (**A**) to display the operation of the refrigerator through the hole drilled on the door.



4.3. MB Control and power board



The control and power board is placed in the compressor compartment and contains:

- A the microprocessor for the control of the appliance;
- **B** the section for obtaining the 18 V of direct current to power the fans;
- **C** the buzzer for the sound advice of the temperature and open door alarms.

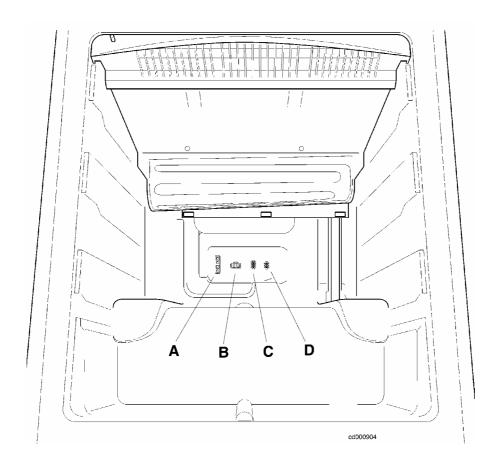
 The advice for temperature alarm has an intermittent long-tone sound, while the advice for open door alarm has a short-tone intermittent sound.
- the triacs for the outputs of:

compressor evaporator fan defrosting heater drain duct heater

NTC safety sensor for the protection of electric components against overheating;
 if the temperature of the compressor compartment exceeds 80°C, the compressor stops. The compressor starts again when the temperature falls below 65°C;

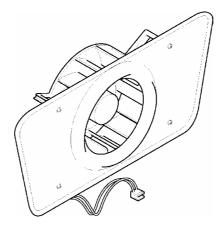
4.4 Foamed connectors seat

Inside the freezer compartment, behind the panel of the evaporator battery, there are the foamed connectors where the NTC sensors (A), the defrosting heaters (B), the evaporator fan (C) and the freezer door switch (D) must be connected.



4.5. Evaporator fan

The evaporator fan is used to let the cold air circulate in the appliance. The fan is powered with a continuous voltage of 18V.



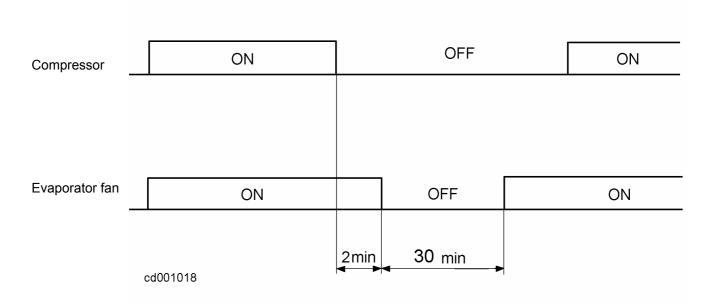
EVAPORATOR FAN

The fan is actioned (switch on and off) on the basis of the operation of the compressor and the opening or closure of the doors.

4.5.1. Operation with door closed

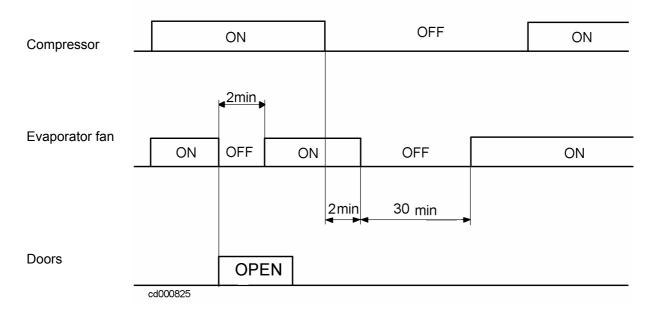
When the compressor switches on, the fan switches on too; after the compressor switches off, the evaporator fan continues to operate for 2 minutes and then switches off.

As the freezer compartment is cooled only by the cold air ducted in by the evaporator fan, after 30 minutes the fan switches on, even if the compressor is still switched off.



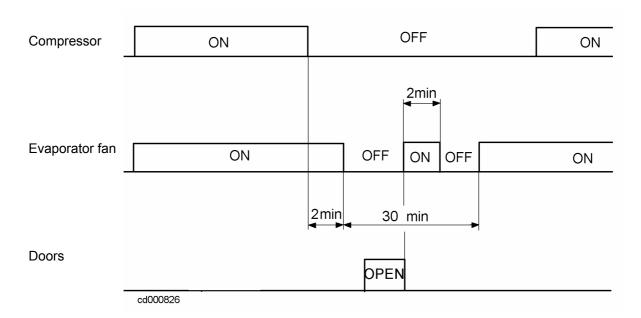
4.5.2. Operation with door opened and compressor switched on

If one of the two doors is opened while the compressor is on, the evaporator fan stops. If after 2 minutes the door is not closed again, the evaporator fan switches on anyway.



4.5.3. Operation with door opened and compressor switched off

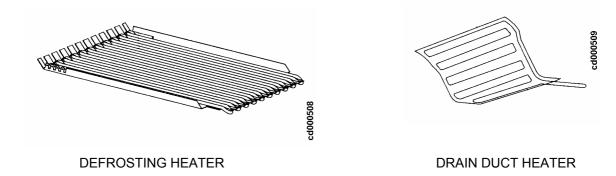
If one of the two doors is opened while the compressor is switched off, in the span of 30 minutes during which also the evaporator fan is switched off, this is activated for 2 minutes after the door closes. After 2 minutes, the evaporator fan switches off automatically.



4.6. Defrosting heaters

The two heating elements are connected in parallel:

- the defrosting heater (250 W) melts the ice which builds up on the evaporator battery.
- the drain duct heater (43.5 W) prevents the formation of ice in the drain duct.

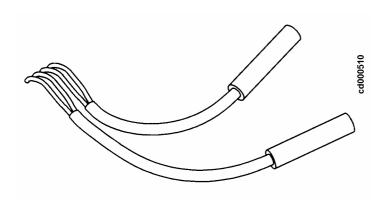


4.7. NTC Sensors

This appliance is fitted with two NTC sensors, both located in the freezer compartment:

- the external (in air) NTC sensor governs the operating cycles of the compressor (switching on and off).
- the evaporator NTC sensor is used for :
 - terminating the defrosting cycle by switching off the heating elements when the temperature reaches 15°C;
 - starting the forced defrosting cycle when the temperature detected is below –35°C.

The two NTC sensors are connected together as one component, therefore they are not available as single spare part.



°C	Onm
10	5348 ±0.6
5	6818 ±0.4
0	8758 ±0.4
-5	11337 ±0.4
-10	14795 ±0.6
-15	19475 ±0.7
-20	25862 ±0.8
-25	34666 ±0.9
-30	46921 ±1
-35	64161 ±1
-40	88577 ±1

4.8. Overheating protection

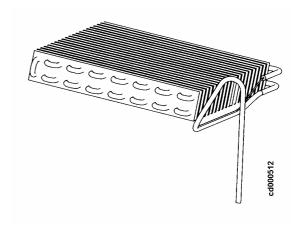
In case of a malfunction of the control of the end-of defrosting temperature (+15° C), two thermal cut-outs fitted to the evaporator battery switch the heating elements off at a temperature of +55°C. The two thermal cut-outs are connected together as one component, therefore they are not available as single spare part.

4.9. Freezer compartment light

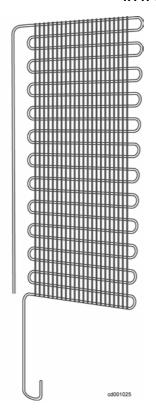
According to the model, 2 normal lamps or 1 halogen lamp supply the light in the freezer compartment.

4.10. Evaporator

The evaporator fitted to the appliance is located in the freezer compartment and consists of a traditional NOFROST battery.



4.11. Condenser



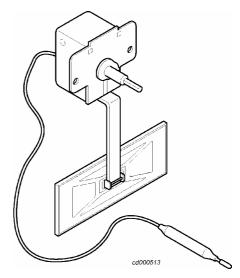
The static exposed condenser is located in the back of the appliance.

4.12. Flap-operated mechanical thermostat

The flap-operated mechanical thermostat controls the flow of air into the refrigerator compartment. When the temperature detected by the external (in air) bulb reaches the cut-in temperature, the flap opens, thus allowing cold air to enter from the freezer compartment.

When the temperature in the refrigerator compartment reaches the cut-out value, the flap re-closes and prevents further air from being ducted into the refrigerator compartment.

By the STAND-BY position the flap does not stop completely the cold air to flow in, but regulates the temperature of the freezer compartment around +15°C (only if in the refrigerator compartment there is no food, this function is used to keep the door closed thus avoiding the formation of bad odours).



5. Operation

5.1. Normal operation

The external (in air) NTC sensor in the freezer compartment controls the compressor's operating cycles according to the cut-in and cut-out temperatures for the selected operating mode (warm, normal or cold). As explained previously, the evaporator fan switches off two minutes after the compressor has stopped; it remains switched off for 30 minutes, and is then switched on again.

The refrigerator compartment is controlled by the flap-operated thermostat, which opens to allow cold air to flow in from the freezer compartment.

5.2. Defrosting

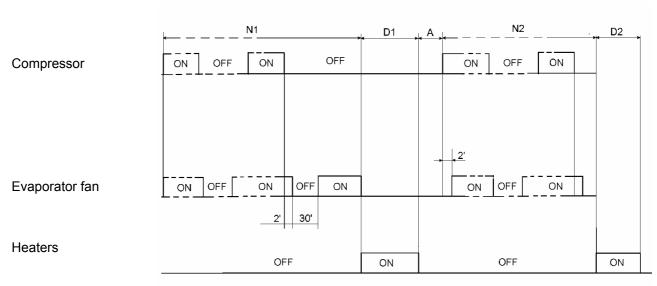
The first operating cycle after the appliance is switched on has a fixed duration of **6 hours**. After this cycle, the defrosting cycle starts*: the compressor and the fans are switched off and the heating elements switch on. When the NTC sensor on the evaporator detects a temperature of **+15°C**, the heating elements are switched off and the defrosting cycle is complete.

In any case, the maximum duration of the defrosting cycle is **30 minutes**, after which the appliance returns to normal operation, even if the +15°C temperature has not been reached.

If due to a malfunction the temperature of the evaporator battery should rise to an excessive level, two heat cut-outs connected in series intervene at +55°C to open the circuit of the heating elements (i.e. switch them off).

The standard time for the defrosting cycle is **22 minutes**. If the time required for the cycle is longer, this means that a large quantity of ice has accumulated on the evaporator, and the subsequent operating cycle will have a duration of less than 6 hours. If the time required for the cycle is shorter than 22 minutes, this means that only a small quantity of ice has accumulated on the evaporator, and the subsequent operating cycle will have a duration of more than 6 hours. In either case, the duration of the operating cycle is subject to a lower limit of **4 hours** and an upper limit of **25 hours**.

In this way, the appliance adapts the duration of the normal operating cycle to the duration of the previous defrosting cycle: this is the concept of "adaptivity" which distinguishes the EUROFLEC range of fridge-freezers.



cd001019

N1, N2= normal operating cycle (if N1 is the first: N1=6 hours)

D1, D2= defrosting cycle

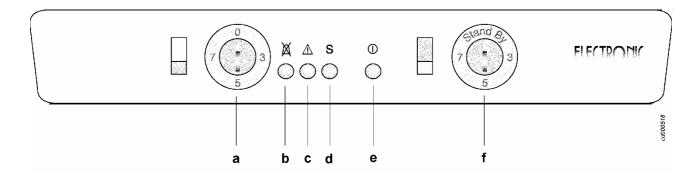
A=drain delay = 5 minutes

The compressor does not switch on immediately at the end of the defrosting cycle. Instead, there is a 5-minute "drain delay" designed to prevent the formation of ice in the drain duct.

The evaporator fan switches on two minutes after the compressor so that warm air is not circulated inside the appliance.

The defrosting cycle is forced when the NTC sensor of the evaporator detects a temperature of -35°C.

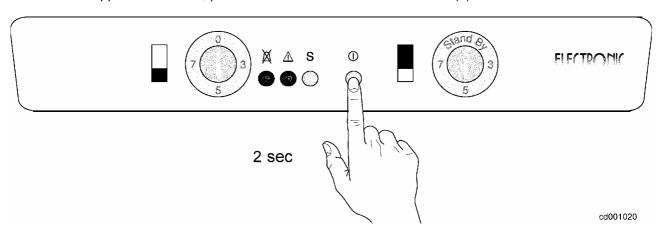
6. Control panel



- a = freezer regulation knob
- **b** = "door open" alarm button/pilot lamp
- **c** = "temperature" alarm button/pilot lamp
- **d** = "rapid freezing" button
- e = ON/OFF button/pilot lamp
- **f** = regulation knob for flap-operated thermostat

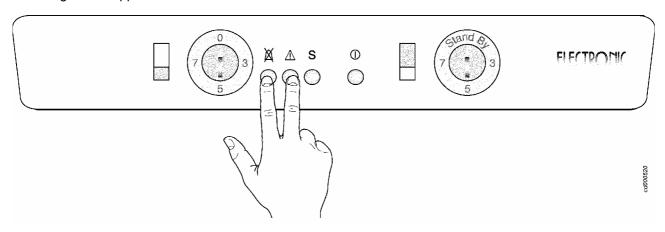
6.1. Switching the appliance on and off

To switch the appliance on or off, press and hold down the ON/OFF button (e) for at least 2 seconds.



In order to ensure that the circuit does not remain pressurised, the electronic system introduces a 5-minute delay in compressor start-up each time the appliance is switched on.

In order to avoid this delay, press the alarm buttons ($\bf b$ and $\bf c$) simultaneously within 15 seconds after switching on the appliance.

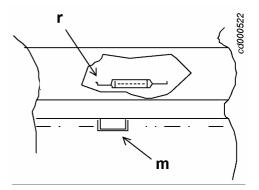


6.2. Door alarm

Both doors are fitted with a switch which detects whether they are open or closed.

The freezer compartment features a button in the top lefthand corner, while the refrigerator compartment is fitted with an electronic switch, i.e. a reed element fitted to the control board of the control panel detects the presence or absence of the magnet embedded in foam in the centre of the refrigerator door.

r=reed-element, m=magnet



The "door open" alarm lights 4 minutes after the door of the refrigerator compartment is opened, or one minute after the door of the freezer compartment is opened.

When the alarm is generated, the button/pilot lamp (**b**) begins to flash and the buzzer sounds. To deactivate the alarm, it is necessary to press button "**b**": the flashing light becomes fixed and the buzzer switches off. If the door remains open, the alarm resumes flashing and the buzzer sounds again after 4 minutes.

After the third time that the alarm is deactivated, the buzzer switches off definitively and the pilot lamp (b) remains lit. If the door is not closed, the electronic system switches off the light in the refrigerator compartment after a further 15 minutes.

6.3. Temperature alarm

The temperature alarm is not connected with the direct reading of the sensor, but it is activated by the microprocessor which elaborates a simulation of the effective progress of the foodstuff temperature.

If the temperature inside the freezer compartment remain above -12° C for 45 minutes, the "temperature" alarm (c) is activated.

When the alarm switches on, the button/led (**c**) starts lightening and the buzzer sounds. In order to switch off the alarm you need to push button (**c**): the light stops blinking and remains fixed and the buzzer switches off.

The temperature control is enabled 4 hours after the first start.

After a defrost cycle the alarm is enabled after 90 minutes.

6.4. "Rapid freezing" function

The "rapid freezing" function is selected by pressing the corresponding button/pilot lamp (\mathbf{d}) and it is deactivated automatically after 36 hours. During "rapid freezing" the cut-off temperature is -32° C (the compressor does not run continuously).

The "rapid freezing" function can be deactivated manually before the 36 hours have elapsed by pressing button "d" again.

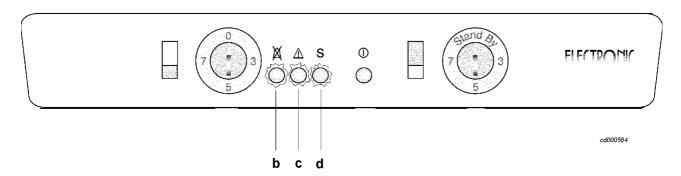
Once the "rapid freezing" function has been selected, a defrosting cycle takes place after 6 hours of operation; thereafter, the maximum interval between defrosting cycles is 10 hours.

If the "rapid freezing" function is deactivated, the intervals of operation between defrosting cycles return to the normal periods calculated before the selection of the function.

The electronic control system memorises the time that has elapsed after selection of the "rapid freezing" function so that, in the event of a temporary power failure, the function does not restart from the beginning, but from the point at which it was interrupted.

6.5. NTC sensors failure

When there is a failure in NTC sensors, during normal mode the three LEDs (b), (c) and (d) flash.



The appliance is controlled in the following way:

failure sensor	failure	working time	compressor cycles	defrost time
Evaporator NTC sensor	First start	6 hours	controlled by Air NTC	22 minutes
(no adaptivity)	During working	latest time before failure	controlled by Air NTC	22 minutes
Air NTC sensor	First start	controlled by evap. NTC	10 min pause 15 min run	controlled by evap. NTC
(adaptivity)	During working	controlled by evap. NTC	latest times before failure	22 minutes
Evaporator NTC sensor + Air NTC	First start	6 hours	10 min pause 15 min run	22 minutes
sensor (no adaptivity)	During working	latest time before failure	latest times before failure	22 minutes

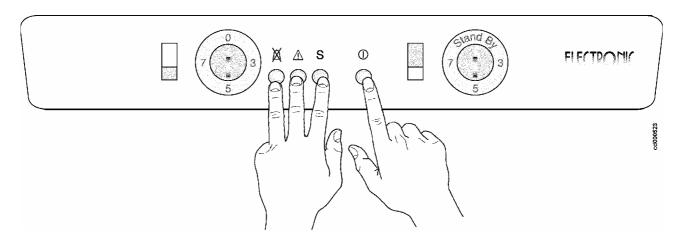
7. Service mode

Service mode can be utilised to check for faults in the two NTC sensors and to power each of the loads separately in order to check for correct operation.

7.1. Selecting service mode

In order to select service mode, it is necessary to press the four buttons (**b**, **c**, **d** and **e**) simultaneously for at least 4 seconds within 15 seconds after switching off the appliance.

To exit service mode, press the same buttons again for at least 2 seconds.



All four LEDs light for 5 seconds to confirm that service mode has been selected (auto-checking). Then, LEDs **b**, **c** and **d** switch off, while LED **e** flashes for the entire period during which service mode is selected.

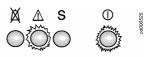
7.2. Signalling of faults

In case of a fault in one of the sensors, the LEDs will begin to flash as follows 5 seconds after selection of service mode:

1. NTC sensor on evaporator: LEDs (b) and (e) flash



2. ambient NTC sensor: LEDs (c) and (e) flash



If no faults are detected, only the ON/OFF LED (e) flashes.

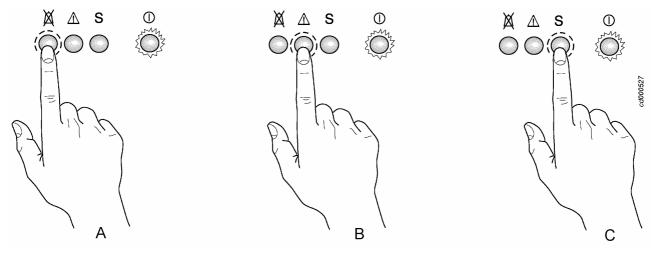
7.3. Separate activation of loads

The various buttons can be used to activate and deactivate the compressor, fan and heating elements separately. The corresponding LED remains lit to indicate the load which has been activated.

If the loads are not deactivated manually, the following safety procedure is performed:

- 1. the compressor and the fan will switch off automatically after 4 minutes
- 2. the heating elements will switch off when the temperature reaches +15°C (end of defrosting cycle)
- 3. above +15°C heating elements deactivate after 4 min.

NOTE: the activation of heating elements allows a manual defrosting.



A= ON/OFF compressor;

B= ON/OFF fan;

C= ON/OFF heaters.

7.4. Checking the door switches

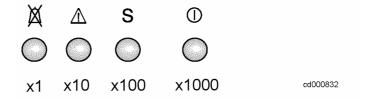
The switch of the refrigerator compartment can be checked by noting whether the refrigerator lights switch

To check for correct operation of the freezer compartment switch, check whether the door alarm activates.

7.5. Deactivation of service mode

To exit service mode, press the ON/OFF button (e) for 2 seconds; the appliance returns to normal operation. If the ON/OFF button is not used, the appliance will return to normal operation automatically after 30 minutes.

6.6 Days counter



The "days counter" function counts the days since the first switching ON of the appliance and it is important to follow the buttons sequence, without skipping anyone.

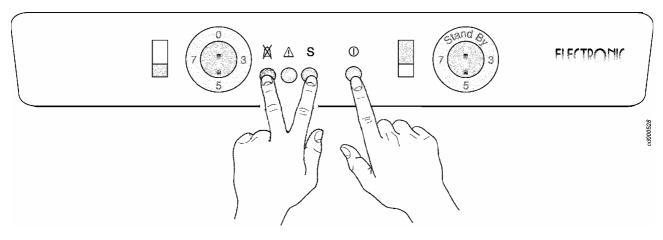
To activate this function the ON/OFF button must be pressed during the 5 seconds following the activation of service mode. The first sounding (long beeps) of the buzzer counts the thousands of day. At the end of the count during next 10 seconds, after pressing the "rapid freezing" button the buzzer counts the hundreds. To count the tenths and the unit of days the operation is the same. For the tenths press the "temperature" button and for the units the "door open" button.

8. Demo Mode

Demo mode is used to demonstrate the operation of the user interface (control panel) without activating the various loads (compressor, fan, heating elements).

8.1. Selecting Demo mode

To select Demo mode, press buttons **b**, **d** and **e** simultaneously for at least 2 seconds within 15 seconds after switching the appliance off by pressing the ON/OFF button.



When Demo mode is selected, the buzzer sounds four times and the LEDs flash simultaneously four times.

8.2. Main functions

The main functions of Demo mode are as follows:

- 1. the light in the refrigerator compartment must switch on when the door is opened and switch off again when it is closed.
- 2. the LEDs light;
- 3. when the RAPID FREEZING button is pressed, the LED remains lit.

Alarm buttons:

"Temperature alarm" button (c):

- 1. When pressed once: the LED begins to flash and the buzzer sounds (remains activated also when the door is closed).
- 2. When pressed twice within 10 seconds: The LED remains lit (fixed) and the buzzer switches off.
- 3. After 10 seconds, both the LED and the buzzer are switched off.

The "door" alarm button (b) operates in the same way as the "temperature" alarm (see above).

8.3. Exiting Demo mode

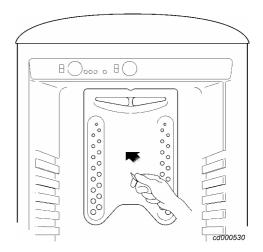
To exit Demo mode, it is necessary to disconnect the appliance from the power supply. Press the ON/OFF button (e) for at least 2 seconds to enter Demo mode with the appliance switched off (Demo OFF operation).

9. Accessibility of components

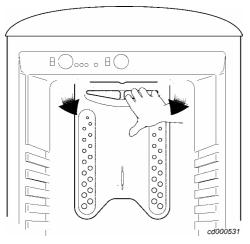
9.1. Refrigerator compartment

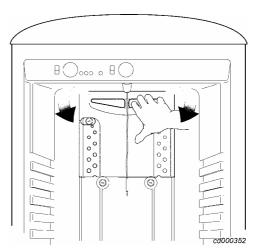
- remove the panel which covers the thermostat bulb by pushing it first upwards out of its socket.
- bend the thermostat bulb to a right-angle;



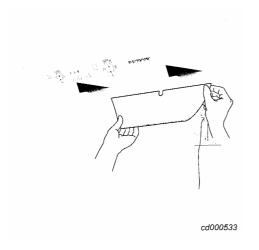


- remove the panel which covers the thermostat;
- remove the polystyrene protective panel;



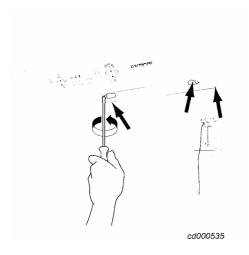


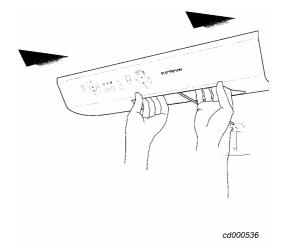
- remove the lamp cover (<u>warning</u>: heat the hooks with an hairdryer in order to avoid their breakage; the hooks are not replaceable);
- remove the thermostat rod cover;



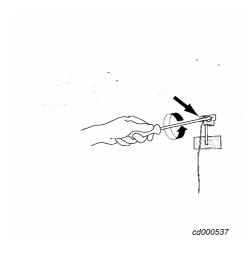


- remove the four screws which secure the control panel to the cabinet;
- remove the control panel;



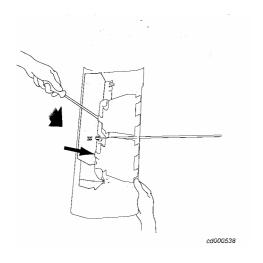


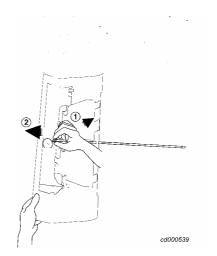
- remove the screw which secures the thermostat;



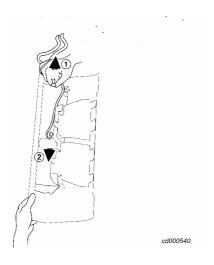
9.2. Displaying board (UIB)

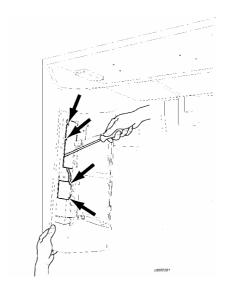
- remove the board cover;
- remove the thermostat rod;





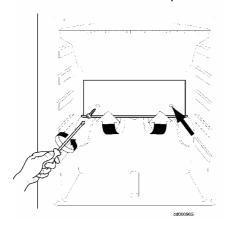
- detach the connectors of the PCB; remove the electronic board;



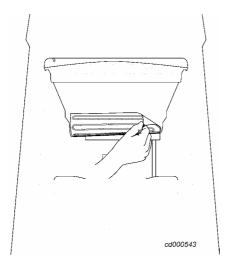


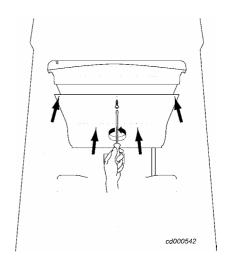
9.3. Freezer compartment

- remove the two screws of the panel which covers the seat of foamed connectors;

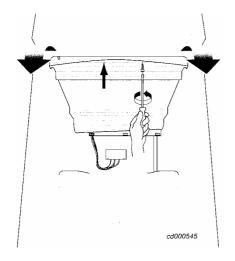


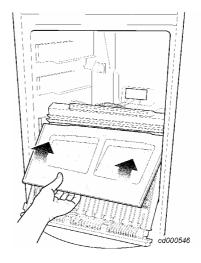
- disconnect the heating element of the drain duct;
- unscrew the panel from the evaporator battery;



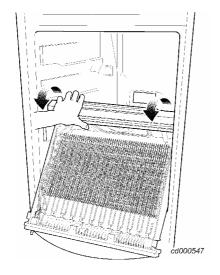


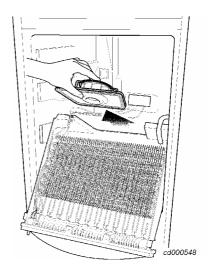
- remove the two screws on the front panel; pull the battery assembly outwards to remove it from its housing, and lay it gently on the bottom of the cell, taking care not to damage the tubes.
- remove the polystyrene panel;



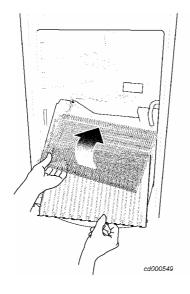


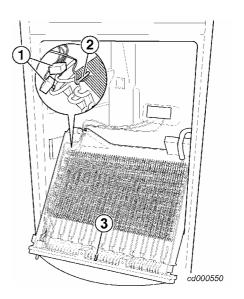
- remove the drain duct (which is pressure-fitted)
- remove the fan;





- raise the evaporator battery slightly and remove the defrosting heater;
- these operations make it possible to access the thermal cut-outs (1), the evaporator sensor (2), the ambient sensor (3) and the freezer compartment door switch.

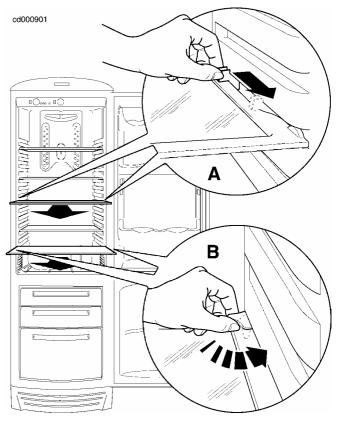




9.4. Glass shelves

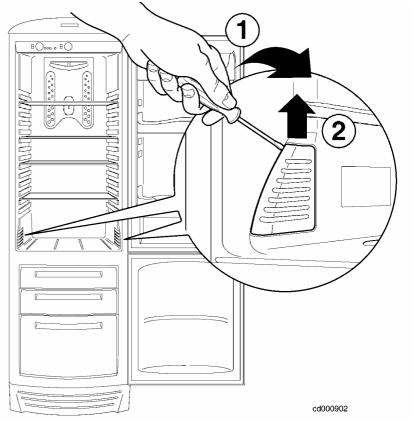
The glass shelves are secured to the guides by plastic tabs. To remove the shelves, it is necessary to move the tabs as shown in detail $\bf A$.

Two tabs, too, secure the shelf on the vegetable drawer. To release and remove the vegetable drawer and glass shelf, it is necessary to rotate the tabs as shown in detail **B**.



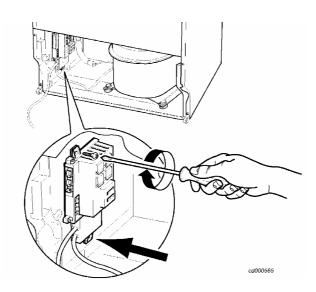
9.5. Air inlets

The air inlets through which air returns to the freezer compartment are pressure-fitted. To remove them, simply lever off using a screwdriver.

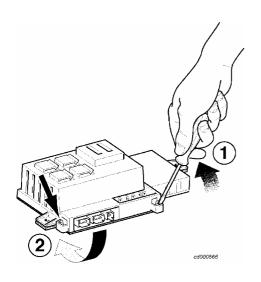


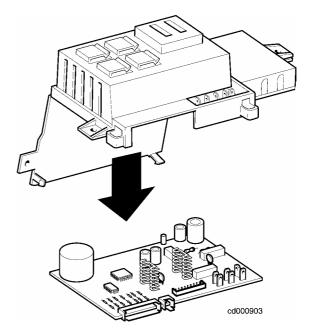
9.6. Control and power board (MB)

- after disconnecting the connectors on the control and power board, unscrew the screws which secure the power board to the cabinet;



- to access the control and power board, unhook the lug (1) and remove the housing (2).





10. Main differences between *EUROFLEC model* and EUROFLEC model with exposed condenser



For further information about EUROFLEC model please refer to Service Manual 599348504.

Please find below a summary of the main differences between *EUROFLEC model (writings in italics)* and EUROFLEC model with exposed condenser (with normal writings).

♦ Energy class

```
EUROFLEC : B;
EUROFLEC with exposed condenser: A;
```

Climate class

```
EUROFLEC: SN, N, T;
EUROFLEC with exposed condenser: SN, N, ST;
```

Evaporator and condenser fans

```
EUROFLEC: independent operation; EUROFLEC with exposed condenser: it features only the evaporator fan with independent operation;
```

♦ Condenser

EUROFLEC: vented corrugated condenser located in the compressor compartment; EUROFLEC with exposed condenser: static exposed condenser located in the back of the appliance.