



DOLCE CLIMA ELECTRONIC CARD

Displays

The lower display generally shows the set-point value, while the upper display shows only small dots indicating the active time segments (I-II); the leds on the control panel indicate which functions are on and the status of the unit -ON/STANDBY-.

When switched on for the first time, or after a current break - even for a few instants - the appliance signals the loss of the timetable by two intermittent dashes "--" on the upper display.

To restore normal functions, it is necessary to reset the correct time.

STANDBY mode

It is indicated by the lighting up of the corresponding LED, and it is characterized by the closing of the air conveyor and by the turning off of all functions. If on selecting such mode the unit was active (heating or compressor on), the fans keep on working for 15 secs. before starting the "turning off" sequence (step motor ccw for 25 secs.); during this phase the stand-by LED is flashing.

On leaving the stand-by mode or switching the unit on, the air conveyor opens (step motor cw for 25 secs.) before the normal functions can be active again.

The selection of the stand-by mode is announced by a sound signal.

If the unit is in stand-by mode you can anyway make all your programming operations.

AUTOMATICAL mode

It is signaled by the corresponding LED and by the mnemonic "Au" on the display.

When you select this mode, the appliance works with a set-point HEAT = 20°C and COOL = 24°C. Moreover, with a temperature delta > by 2°C than the set-point value, the maximum speed is turned on, for lower deltas the minimum speed. The latter remains on for temperatures > 21°C.

In case the parameter [He] is at 0 (heat mode prevented), the unit always works in COOL mode.

COOL mode

It is signaled by the corresponding LED, and it excludes the HEAT, DRY and AUTO modes. The compressor is controlled according to the set value displayed. The evaporator fan is always on, while the condenser fan follows the compressor activity. The fans speed, the same for both of them, is selected manually.

HEAT mode

It is signaled by the corresponding LED and it excludes the COOL, DRY and AUTO modes. It can be activated only with [He]= 1, otherwise the control button is not recognized. The heating is controlled according to the set value displayed. The evaporator fan is activated at the same time as the heating and stops 30 secs afterwards; the condenser fan is always off. The fan speed is selected manually.

DRY mode

It is signaled by the relevant LED and it excludes the HEAT, COOL and AUTO modes. The compressor works for 12 minutes every 20 minutes. In case the ambient temperature is lower than the chosen setpoint, the compressor is stopped, and this is signaled by the lighting up of the relevant intermittent LED. The evaporator fan speed is always the minimum one, while the condenser fan follows the compressor activity and is regulated at the minimum as well.

FAN mode

It can be chosen by deselecting the HEAT, COOL, AUTO and DRY modes. When this mode is on, the sole evaporator fan is running at the speed you have selected manually.

NIGHT mode

It is signaled by the relevant LED; it works only in HEAT and COOL mode. By pressing the relevant button, you activate a timer that varies the selected set-point by 1°K after 60 min. and by 2°K after 120 min. The variation is positive in COOL mode and negative in HEAT mode.

TIMER mode

It is signaled by the relevant LED flashing intermittently, and it can be selected by pressing the relevant button. This mode works for all functioning modes unless the unit is in stand-by. This mode allows two time segments, that can be activated separately or jointly: by referring to the internal clock, they allow to activate or set in temporary stand-by the appliance in programmable periods.

If, owing to a current break the clock loses the computation, the appliance prevents automatically the timer mode (the unit is always ON). If you activate the timer at this moment, the error condition is signaled by a buzzer when you press the button.

You can select your programmes by pressing the button T+ or T- (used then to change the displayed value). On the display you can read "Mn" and the current minutes: use T+ and T- to adjust as you please. If you press TSET you can now gain access to the following parameters: "Hr", current time; "^on", start time of the first period, "^of", end time of the first period; "on^", start time of the second period, "of^" end time of the second period; return to normal operation. All programmes are canceled also after 30 secs of inactivity.

By pressing the TSET button in normal mode you can select the time periods to activate:

" ^ - " = I

" - ^ " = II

" ^ - ^ " = I + II.

AUTOTEST

By pressing for 3 secs. the buttons COOL + NIGHT, you activate the following sequence:

- 1) turning off of all functions ; lighting up of the display and of all LEDS, the air conveyor starts to open (time: 12 secs.)
- 2) "-E", evaporator fan at speed I (time: 10 secs.)
- 3) "-H", activation of the heating, evaporator fan at speed II (time: 3 secs.)
- 4) "-C", compressor and fans at speed II (time: 3 secs.)

If during the last phase you press the standby button, the temperatures relevant to the probes (evapor. / air) are shown on the display.

At the end of the autotest, the appliance automatically sets up as follows : COOL, SET = 18°C, fans at speed II, timer OFF, unit ON. A 4-skip counter of the compressor pause at start is also recharged.

IMMEDIATE START

The gap between the opening of the air conveyor and the actual activation of the appliance functions (ventilation and controls) can be eliminated by pressing simultaneously the buttons FAN + NIGHT + DRY. In this case, besides the immediate validation of the functions, you obtain also the immediate, but not permanent change of the setpoint value at 30°C.

SETUP

You have access to it by pressing the buttons AUTO and SET for 3 secs. with the appliance in standby. It is now possible to set up the parameter HE (00, 01) to activate the heating control. You can select it by pressing T+ or T-, the exit is automatic after 30 secs. or immediate by pressing TSET.

COMMON FUNCTIONS

- The setpoint can be regulated ranging between +18°C and +30°C by means of the buttons SET+ and SET-.
- The thermostat regulation is made with about 1°K hysteresis.
- The compressor is allowed to start only after 3 minutes it has been stopped and if the evaporator temperature is > +10°C.
- The condenser fan follows the compressor activity.
- After about 200 hours of operation (excluding the standby) the LED signaling the "Dirty Filter" lights up. To cancel the indication and reset the hours counter, you have to enter the standby mode and then exit.
- The condensate discharge pump is on only if the level is high (open switch) and the compressor is running. The minimum activation time is 1 sec., the maximum time is [Pu]: once you have reached that, the appliance goes in alarm "A1".

Electronic versions previous to serial number 0579900001 for the Grey model and previous to 0539900033 for the Ivory model.

- When the evaporator temperature is < = [Lo] (-3°C) the compressor stops. If this protection intervenes more than 3 times in one hour, the appliance enter the alarm "A3".

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Electronic versions from serial number 0579900001 for the Grey model and from 0539900033 for the Ivory model.

- When the condenser temperature is => [Hi] (66°C) the compressor is stopped. If this protection starts up more than 3 times in an hour the machine operate the "A2" alarm.
- Control of the temperature on the condenser
This control is effective when the condenser fan is working at the minimum speed. If the temperature of the condenser is lower than 62°C the fan works at the minimum speed; if the temperature is higher than 62°C, the electronic automatically switch over the speed to MAX, until the condenser's temperature go down to 56°C (at this temperature it switches over again to the MIN. speed).
- Possible anomalies of the temperature measurement effected by the probes are visualised on the lower display through the mnemonic "tA" (thermostat probe), "tE" (evaporator probe).
- All the alarms (A1; A2; A3; tA; tE) are signalled by the intermittent lighting of the mnemonic on the lower display and by the buzzer. The latter is excluded in standby mode. During this phase all functions LEDs are off. To cancel the alarm you have to switch the appliance off and remove the cause of the alarm.
- In operation mode, the setpoint, the timetable programmes (except for the clock) and the operation hours counter are saved in the permanent memory and restored when the unit is switched on again.
- The power frequency, necessary for the correct functioning of the internal clock, is set by means of the parameter "Fr" and must be 50 for units at 50 Hz., 60 for units at 60 Hz.

SETUP VALUES

Mnemonic	Value	Description
He	01	Heating function activation
Pu	30	Maximum time for the pump activation
Lo	-3	Evaporator minimum temperature
Mo	00	Air outlet grid oscillation
Fr	50	Frequency for the clock functioning
01	03	Ambient probe correction
02	03	Evaporator probe correction