

# Users Manual

## TopCooling

Resfriar  
R4 Microprocessor

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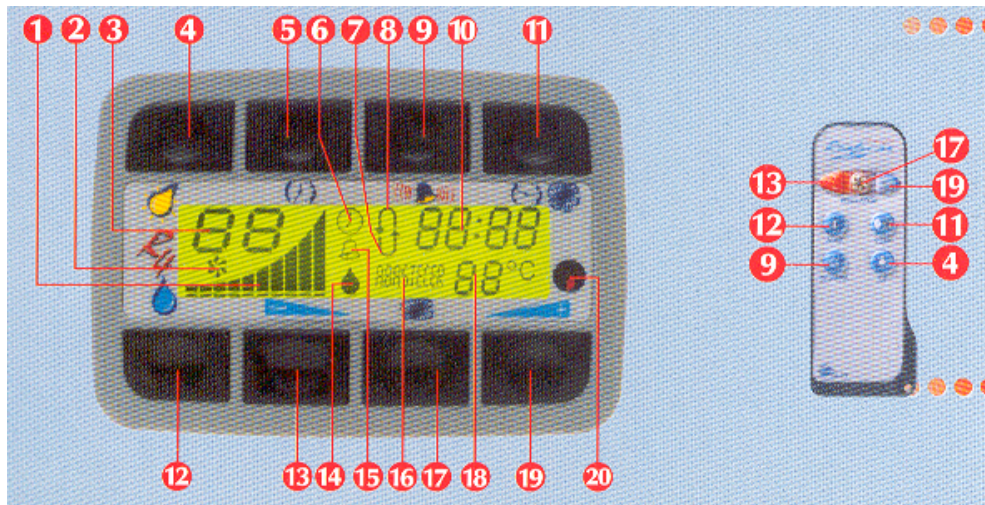
Important

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## Functions of the Microprocessor



- 1) Fan speed, graphical shown
- 2) Indication symbol to see if the fan is working
- 3) Numerical speed indicator for the fan (10 steps)
- 4) Lighting key with dim function
- 5) Program key for the alarm, timer, clock and to see the external battery voltage
- 6) Indication symbol for the timer function
- 7) Indication symbol for the water supply (sprinkle the filter)
- 8) Indication symbol for the water drain out of the filter tank
- 9) Key to activate or deactivate the alarm function
- 10) Digital 24 hrs clock
- 11) Key to activate or deactivate the timer function
- 12) Key to activate or deactivate the cool function
- 13) Key to reduce the speed of the fan
- 14) Symbol for the water use, or the cool function
- 15) Indication symbol for activated alarm function
- 16) When symbol (water tank) appears, the system must be filled up with clear water
- 17) Switch on and turn off the fan
- 18) Internal temperature
- 19) Key to increase the speed of the fan
- 20) Eye for the remote control

## **Program functions**

### **Alarm function**

When the program key (5) will be pushed in for about 3 seconds, the alarm indication symbol (15) will blink. By the plus key (19) and the minus key (13) you can set the time. With the alarm symbol (9) you can activate or deactivate the alarm function. When there is no key pushed for about 10 seconds, the present time will appear in the display.

### **Timer function start TopCooling**

When the program key (5) will be pushed in for about 3 seconds, the alarm indication symbol (15) will blink. When you push on the program key (5) again, a face (6) will appear in the display together with the letters "Li". By the plus key (19) and the minus key (13) you can set the time you want the TopCooling start functioning. With the timer function key (11) you can activate or deactivate this function. By activating this function, the timer indication symbol (6) will appear in the display. When there is no key pushed for about 10 seconds, the present time will appear in the display.

### **Timer function stop TopCooling**

When the program key (5) will be pushed in for about 3 seconds, the alarm indication symbol (15) will blink. When you push on the program key (5) twice again, a face (6) will appear in the display together with the letters "dE". By the plus key (19) and the minus key (13) you can set the time you want the TopCooling stop functioning. With the timer function key (11) you can activate or deactivate this function. By activating this function, the timer indication symbol (6) will appear in the display. When there is no key pushed for about 10 seconds, the present time will appear in the display.

### **Time set up**

When the program key (5) will be pushed in for about 3 seconds, the alarm indication symbol (15) will blink. When you push on the program key (5) three times again, the time will blink. By the plus key (19) and the minus key (13) you can set the time. When there is no key pushed for about 10 seconds, the time will appear in the display without blinking.

### **Battery charge indication**

When the program key (5) will be pushed in for about 3 seconds, the alarm indication symbol (15) will blink. When you push on the program key (5) four times again, you will see the present battery charge on the display at the position of the time and temperature. After about 30 seconds the present time will appear again on the display. It is also possible to push on the program key (5) again, to get the present the time quicker.

### **Filter replacement**

You should at least once a year replace the filter to assure a good working and to satisfy to the guarantee conditions.

When you remove the 10 screws by which the hood is fixed, you can take off the above hood. You can see the filter already (see example). Unfasten the 2 tube clips (see example), then you can take the complete filter out in above direction. Placing of the new filter has to be done in turned order. You should also add a conditioner to the water once a year. This conditioner can be obtained at your TopCooling supplier. You can also obtain a new filter at your TopCooling supplier.

### **Fill up the system**

When the symbol (water tank) (16) appears in the display, the system should be filled up with clear water. This can be done with a garden hose, which is connected to the waterworks. Remove the both caps at the end of the filling hose, which is attached at the backside of the cab. Place the garden hose at one of the ends of the filling hose and turn open the tap.

Leave the tap open until water flows out of the other end of the filling hose, this means that the system is filled up. Turn off the tap and remove the garden hose from the filling hose and put the caps back on the filling hose. When there is no possibility to fill up the system with a garden hose, you can also fill up the system with an external refill tank with pump (option). When the system has been filled up, push the key (12) and the symbol (water tank) (16) will disappear and you can use the cool function again.

### **Switch on and turn off of the system**

By key (17) the TopCooling system can be switched on or turned off. When the system has been switched on, symbol (2) will appear on the display. By using the keys (13) or (19) you can arrange the speed of the blower in 10 steps. The speed of the blower is reproduced in two manners; as numerical speed indication (3) and as diagram (1). The indication symbol (14) will also appear when the system is switched on. This symbol indicates that water will be used and so the cool function is active.

You can also decide only to make use of the blow function, then push on key (12) and the indication symbol will disappear. Now the cool function is out of order. When you push on the key (12) once more, the cool function will be active again.

### **Lighting**

When you push on the lighting key (4), the lights on the internal panel will burn. Then when this key will be pushed on for 5 seconds, the lighting on the internal panel will dim in 5 steps.

## Important

- 1) When a frost period is coming, you should remove the water out of the system. To get the water out of the system, switch the system on at 3 until the symbol (water tank) (16) appears on the display. All the water is out of the system now and damage at the TopCooling system by frost is no longer possible.
- 2) During the use of the TopCooling system, you always have to keep open your window for approximately 2 centimetres.
- 3) The cooling of the internal temperature depends on the outside temperature and the humidity.
- 4) You have the best performance of your TopCooling system, when you have the system switched on at 4 or 5.
- 5) When the temperature comes below 9 degrees or above 50 degrees Celsius, the letters EE will appear in the display on the position of the temperature.

## Replacement parts



### Filter

This filter can be found inside the TopCooling and has to be replaced at least once a year in order to guarantee a good working of the TopCooling system.



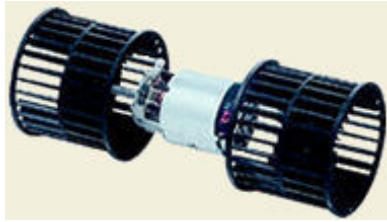
### Filter tank

During the replacement of the filter, you also have to clean the filter tank, which can be found underneath the filter. This filter tank catches the superfluous water, which has dripped through the filter. This water will be pumped back into the water reservoir.



### Electrical pumps

The systems contains 2 electrical pumps of the brand Siemens-VDO. One serve for pumping the water to the filter. The other one serve for pumping back the water from the filter tank into the water reservoir.



### **Ventilator motor**

The system is supplied with a double ventilator motor made by Bosch, which can be found between the filter. This motor blows the cooled air into the cabin.

### **Stream openings**

On the panel you find 4 stream openings for the cooled air, which can be opened or closed separately. It is also possible to turn them in all different directions.

### **Panel lighting**

On the panel you find 2 lamps which can be turned on or switched off by the operation panel or remote control. It is also possible to dim the lamps.

### **Microprocessor R4**

This is the operation part of the TopCooling system. Herewith you can operate the different functions such as, switch on or turn off the system, regulate the speed of the fan and set up the different timer functions. Also the time, temperature and the lack of water for optimal functioning of the system will be registered on the display.

### **Remote control**

Herewith the different functions of the TopCooling system can be served from a distance, such as switch on and turn off the system, regulate the speed of the fan, lighting and set up the different timer functions.



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# Warranty certificate RESFRIAR

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Name client :

Mark vehicle :

Model :

Licence number :

Begin warranty period :

Barcode:

|                   |
|-------------------|
| Paste here please |
|-------------------|

Herewith the owner / driver certifies that he has noted all the notes, manuals and important remarks concerning the system, which are important for an optimum working of this TopCooling system.

|                              |                                       |                                |
|------------------------------|---------------------------------------|--------------------------------|
| Owner / driver<br>Signature: | Seller / Firm<br>Signature and stamp: | Copy for the<br>Owner / driver |
|------------------------------|---------------------------------------|--------------------------------|

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