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DAC 1.2

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1. Introduction

The DAC (Dynamic Air Cooling) is a cooling system in which air is circulated by a fan inside the refrigerator compartment. This system distributes uniformly the temperature in every part of the refrigerator. The temperature quickly returns to this level after the door has been opened.

The new DAC is referred to as **DAC 1.2** so that it is distinguished from the first version.

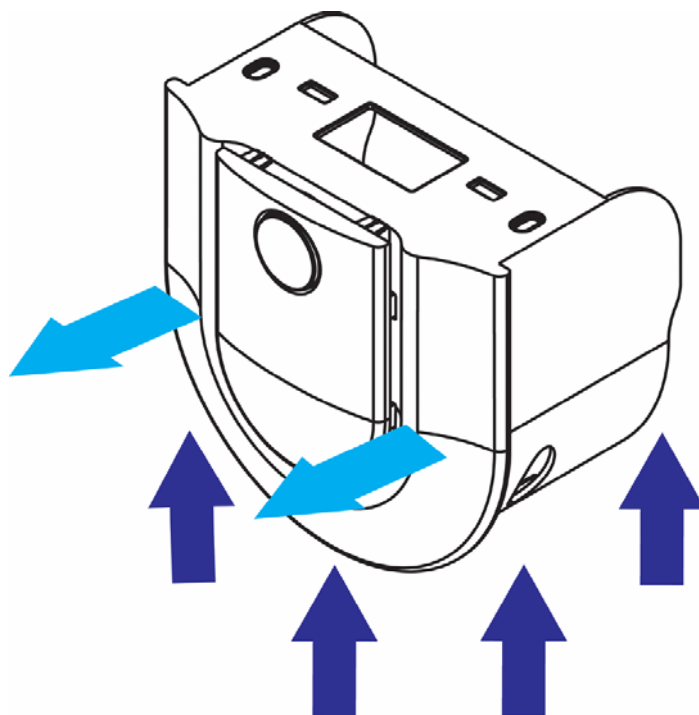
The DAC 1.2 system features a ON/OFF switch that can be used to select the operating mode for the refrigerator: conventional mode or forced air circulation (which is recommended for operation in the summer).

IMPORTANT NOTE: Only in the appliances with a rapid drink cooler device RDC (see Service Manual 599382974) is used a DAC 1.2 version without the ON/OFF switch.



WARNING : For safety reasons the DAC does not feature the ON/OFF button to avoid the explosion or fire risks in case of gas leakage inside the appliance.
Should the components of the DAC be replaced, use only the original parts indicated in the spare part lists!

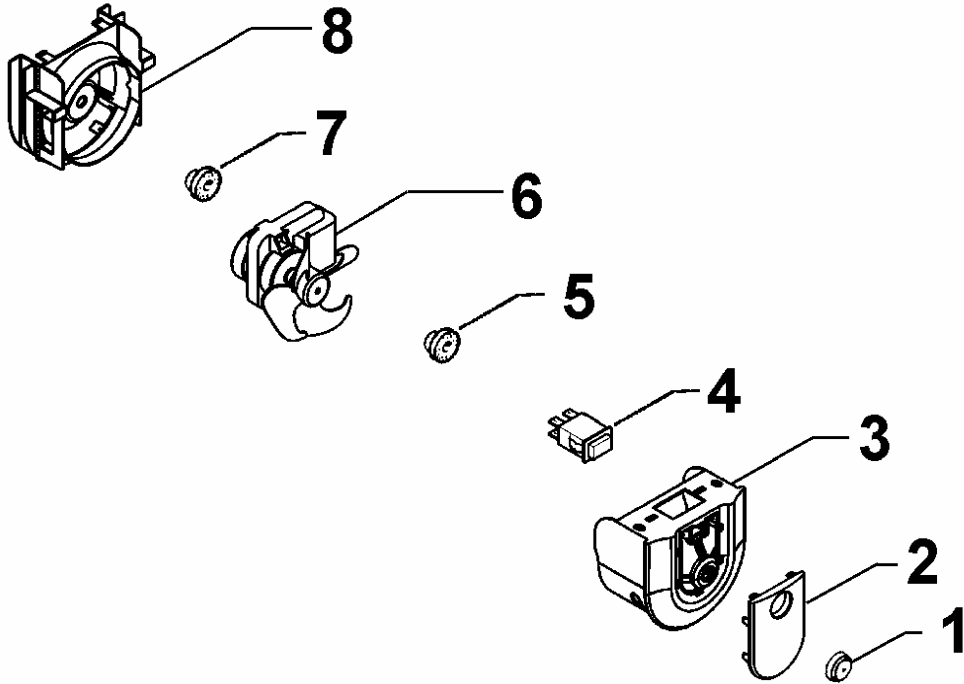
The DAC 1.1 system is located in the upper section of the refrigerator. The air enters from the rear side along the refrigerator bottom and exits from the front side, as shown in the figure below:



2. Components

2.1. Assembly view

Please find below the descriptions of the components of DAC 1.2 :

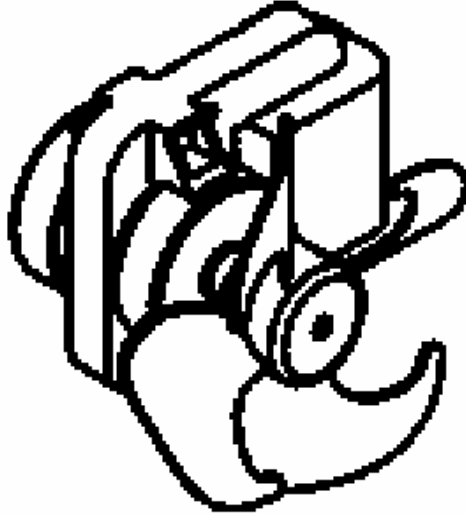


1. button (not featured in the models with rapid drink cooler RDC);
2. front conveyor;
3. front cover;
4. bipolar switch (not featured in the models with rapid drink cooler RDC);
5. fan motor buffer;
6. fan motor;
7. fan motor buffer;
8. rear support;

2.2. Fan

The fan is supplied with the $\varnothing 90$ mm. axial fan.

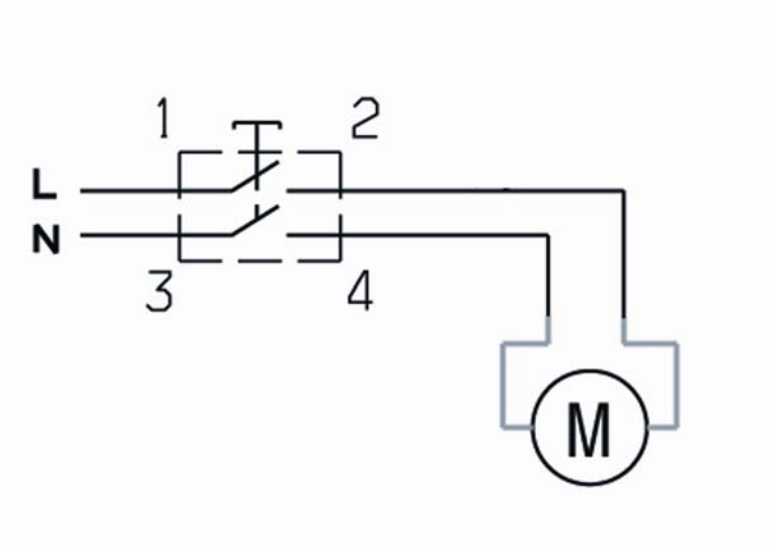
The voltage is 220/240 V~ 50/60 Hz, the power is 2.9 W (tolerance of + or – 1 W) and the run no. is 1550 (tolerance of + or – 150 rpm).



2.3. Wiring diagram

2.3.1 Version with ON/OFF button

Find below the wiring diagram of the bipolar switch:

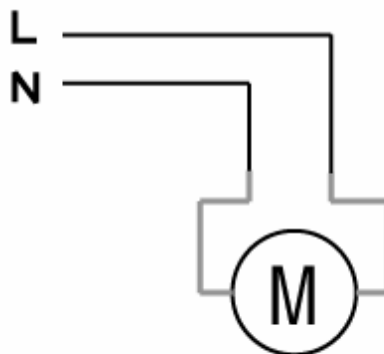


Key:

- L = Line
- N = Neutral
- M = Fan motor
- 1-2-3-4 = Bipolar switch contacts

2.3.2 Version without ON/OFF button

Find below the wiring diagram of bipolar switch for models which feature the rapid drink cooler RDC RDC:



Key:

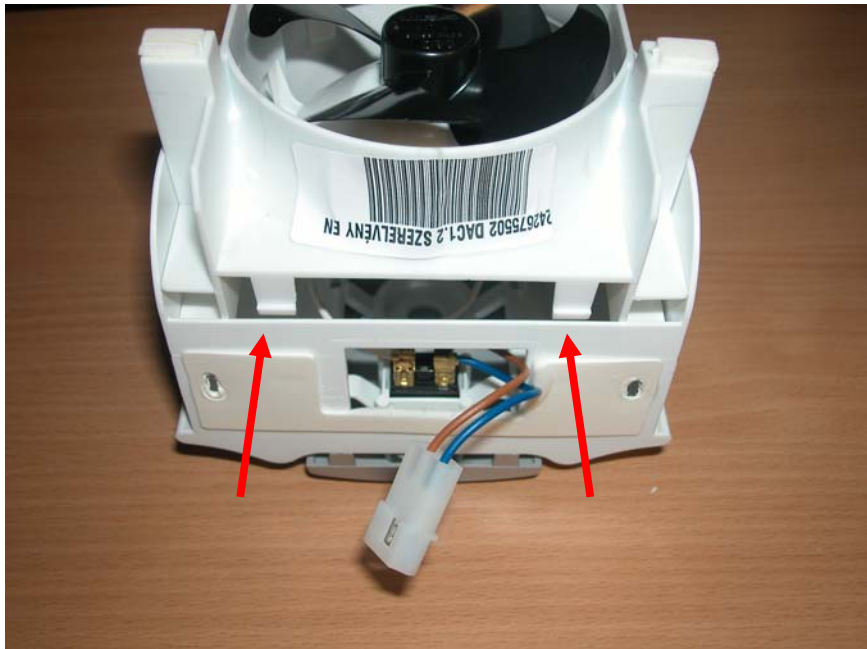
- L = Line
- N = Neutral
- M = Fan motor

3. Accessibility

The DAC 1.2 is fitted to the upper section of the refrigerator by 2 screws that must be removed to access to the internal components.



- Detach the connector of the electric wiring;
- Remove the back support pushing the two hooks;



- Remove the fan that is inserted by pressure into the shaft of the fan motor;

- In this way it is possible to gain access to the internal components (fan motor, bipolar switch).



Warning: The hooks of the front conveyor have been melted in order to avoid that the conveyor unhooks due to the forced air. Therefore, in case of replacement of the conveyor it is necessary to melt its hooks again.

To remount the components carry out the same operations in reverse order.