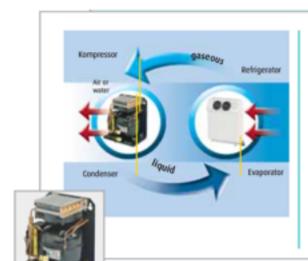
### **COMPRESSOR COOLING**



Compressor devices are running with the help of a CFC-free refrigerant.

This cooling agent changes from the liquid to the gaseous state inside the evaporator. At the same time the evaporator binds the warmth from the interior of the cooling device – it's getting cold.

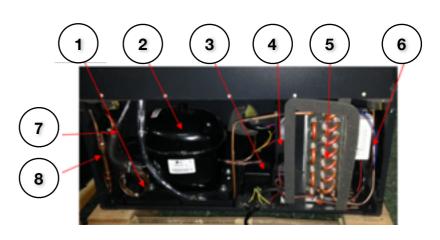
The compressor draws in the gaseous refrigerant, compresses it and passes it on to the condenser, where the binded heat is released again. The refrigerant changes to the original liquid state once more and flows back to the evaporator, where the cycle starts again.

#### ADVANTAGES

- Problem-free operation with 12/24 volts or 100–240 volts
- Refrigeration and deep-freezing
- Excellent cooling performance, even at extreme outdoor temperature
- Minimal consumption
- · Integrated battery protection
- · Ideal for solar operation

### Compressor, Condenser and Parts





1 Capillary tube

**2** Compressor

3 Cable box

Condenser DC fan

**5** Condenser

6 Switch power supply

7 Loop pipeline

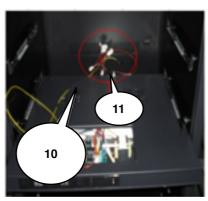
8 Dryer filter

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# **COMPRESSOR COOLING**

### Evaporator, Fans







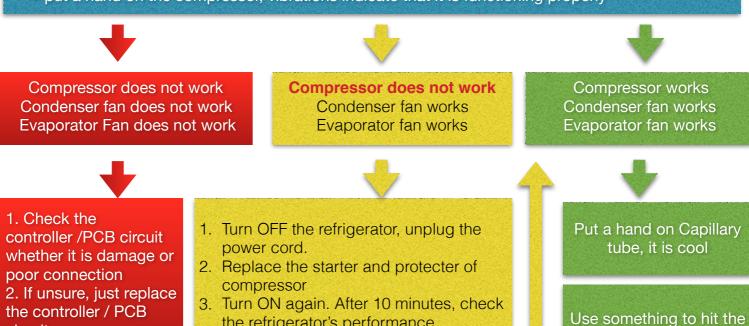


- 9 Heater Fan (for dual zone coolers)
- Circulating fans (on the isolation board)
- (11) Cable connection terminals
- Evaporator fan (on the isolation plate)
- 13 Insolation plate
- **14** Evaporator sensor

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## **COOLING PERFORMANCE DIAGNOSIS**

- Take off the back cover, the compressor needs to be checked later.
- Turn ON the refrigerator, preset the temperature to a lower value.
  - Beverage cooler unit: 2C
  - Single zone wine cooler: 12C
  - Dual zone models: UPPER zone 8C, BOTTOM zone 12C
  - · After 10 minutes, check the compressor, condenser fan and evaporator fan
  - put a hand on the compressor, vibrations indicate that it is functioning properly



Compressor working and cooling properly

circuit

Compressor with voltage input but does not work

the refrigerator's performance

Replace compressor

Compressor working but not cooling

Cooling, means cooling system blockage. Replace the dryer filter

Dryer Filter slightly

Not cooling. It's mostly leaking. Find out the leaking point, and replace the components/part



Seal and vacuum the cooling system, refill refrigerant. Turn on the refrigerator

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