

A. FAILS TO COOL

FAULTS: 1. No part is working.

Causes: Lack of voltage in the unit.

Remedies: Check that doors and switches are closed.

FAULTS: 2. Compressor, condenser fan and evaporator fan working.

Causes:

1. Cooling system has run out of gas.

2. Compressor is mechanically broken.

Remedies: Contact Cosmotec technician or after sales department.

FAULTS: 3. Compressor and outside fan working, inside fan not working.

Causes: 3.1. Fan capacitor not working.

3.2. Evaporator fan broken. Remedies:

3.1 Replace fan capacitor.

3.2 Replace fan.

FAULTS: 4. Outside fan and inside fan working, compressor not working.

Causes: 4.1. Where present, compressor thermoamperometer broken.

Remedies: 4.1. Replace thermoamperometer and check efficiency of the electrical parts of the compressor.

Causes: 4.2. Compressor relay or starter PTC broken.

Remedies: 4.2. Replace compressor relay or starter PTC.

Causes: 4.3. Where present, start-up condenser broken.

Remedies: 4.3. Replace start-up condenser.

Causes: 4.4. Compressor motor broken. Remedies:

4.4. Contact Cosmotec technician or after sales department.

Causes: 4.5. High pressure switch broken.

Remedies: 4.5. Contact Cosmotec technician or after sales department.

Causes: 4.6. Where present, compressor remote control switch broken down. Remedies: 4.6. Replace remote control switch.

FAULTS: 5. Inside is working, outside fan and compressor are not working.

Causes: 5.1. Thermostat broken. Remedies:

5.1. Replace thermostat.

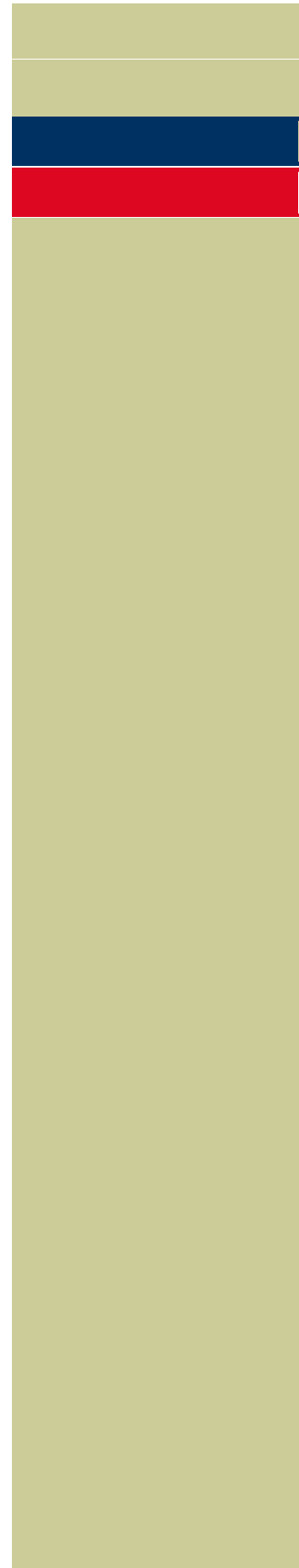
Causes: 5.2. Thermostat is set at an higher temperature than the one in the enclosure.

Remedies: 5.2. If necessary set the thermostat at a lower tempertaure.

Causes: 5.3. When present, anti-freeze thermostat broken.

Remedies: 5.3. Replace anti-freeze thermostat.

B. FAILS TO COOL SUFFICIENTLY.



FAULTS: 6. Inside fan working, compressor and outside fan working intermittently.

Causes: 6.1. Anti freeze thermostat switches off the circuit.

Remedies: 6.1. Clean evaporator or check for any external causes which may limit the airflow to the inside circuit.

Causes: 6.2. Where present, low pressure device switches off the circuit because of insufficient gas charge.

Remedies: 6.2. Contact Cosmotec after sales service.

Causes: 6.3. Where present, solenoid valve broken.

Remedies: 6.3. Replace solenoid valve coil.

FAULTS 7. Condenser fan working, evaporator fan working, compressor working intermittently.

Causes: 7.1. Where present high pressure device switches off the circuit because the room temperature is exceeding maximum temperature, as shown on technical data plate.

Remedies: 7.1. Ventilate the room.

Causes: 7.2. Dirty heat exchanger condenser.

Remedies: 7.2. Clean exchanger.

Causes: 7.3. Air short-circuit.

Remedies: 7.3. Check that no obstruction or obstacle are causing the expelled air to short-circuit; check that requirements concerning minimum distance from a wall, from the ceiling, from the electric cabinet or from any other air cooling unit are met as per instructions in the manual.

7.1/2/3 Contact Cosmotec after sales service.

Causes: 7.4. Compressor heat protector device switches on because air temperature in cabinet exceeds maximum temperature shown on technical data plate of the unit.

Remedies: Operate as above.

FAULTS 8. Inside fan working, outside fan not working, compressor working intermittently.

Causes: 8.1. Fan electric condenser broken down.

Remedies: 8.1. Replace electric condenser.

Causes: 8.2. Outside fan broken down.

Remedies: Replace condenser fan.

FAULTS 9. Excessive condensate production.

Remedies: Check that the self-adhesive seal between the cooling unit and the cabinet has been correctly applied.

Causes: Cabinet with protection level lower than IP 54.

Remedies: Check that the unit's locking panels have been correctly installed and that there are no openings in the cabinets.