

FAQs Air conditioning systems / Air conditioners

Below you will find answers to the most frequently asked questions about our products in the air conditioner series.

Frontbox, MB 0530 Citaro, 2002 model

Butterfly valve positioning error

Install Citaro Frontbox 1101738A retrofit assembly

Aerosphere air conditioner, MB 0 530 Citaro

Burnt magnetic coupling

Replace bouncing LP switch (MB part), change control TI EvoBus

Aquasphere roof boxes, Setra BR 400

Whistling noises

Since 11/2003 new control units with a modified set of parameters have been available. Whistling noises eliminated by increased surface pressure.

CC220 rooftop unit / CC220 rooftop unit for rear section, MB 0405, MAN A1x / MB 0405 GN2

Inspection glass line ruptured, retainer broken, insufficient refrigeration at high outside temperatures

Replace retainer (Kit 68843A), install conversion kit (Kit 93443A), retrofit pressure switch 92931B for condenser fan in rear of vehicle, if necessary connect acc. to circuit diagram Web 84686

Top Cooler S300, MB 0350

Undefined blower performance

Check that relay configuration and wiring to evaporator blower conforms to circuit diagram

Top Cooler S300, MBO 350

Evaporator blower too strong and too loud

Set blower resistance levels 1/2/3. 2/3/4 has been set ex works

Air conditioner

Suction pressure too high, high pressure too high

Sensor of thermostatic expansion valve is loose, has poor contact, or is not thermally insulated, overheating set too low, run compressor with refrigerant, mount sensor correctly.

Air conditioner

High pressure too high

Condenser blocked, high hot gas temperature, low refrigerating capacity: clean. Condenser fan broken, high pressure switch-off: repair. Overfilling, high undercooling, optimise fill level. Refill foreign gas (air). Check throttle control between compressor and condenser, lines and valves.

Air conditioner

Suction pressure too low

Too little refrigerant, no undercooling, bubbles in inspection glass, extreme overheating, evaporator frosting, search for leaks, top up, reduce or close suction shut-off valve on compressor, suction pressure gauge shows vacuum, check and correct valve position. Evaporator louvres dirty or air filter blocked. Insufficient refrigeration, clean. Evaporator fan broken. Low pressure switch-off, repair blower. Brine is frozen (indirect systems), evaporator damaged, check frost protection, increase brine concentration. Expansion valve defective (sensor system leaking), as valve has closed, replace valve. Screen or nozzle of expansion valve blocked, extreme overheating, clean.

Air conditioner

Overheating too low

Valve wrongly adjusted, valve opening too wide, overfilling (capillary), incorrect sensor mounting, run compressor with refrigerant, change valve, change nozzle, optimise fill level, mount sensor correctly.

Air conditioner

Compressor keeps switching on and off, switching range too narrow

Triggering of a switching device (overpressure switch, low pressure switch), low refrigerant level, blower defective, overfilling

Air conditioner

Hot gas temperature too high

Low oil level

Air conditioner

Suction pressure too high

Compressor (valve plate, piston rings) defective, inadequate refrigeration: replace compressor or defective parts. Output regulator defective, inadequate refrigeration, hot gas temperature too high when bypass open.

Air conditioner

Excessive overheating

Valve wrongly adjusted, valve opening too small, valve screen blocked, low refrigerant level, MOP reached (not a fault), replace filter.

Air conditioner

Compressor will not start

Pressure switch or other safety switch has engaged,
electr. fault, cylinder is filled with liquid refrigerant.

