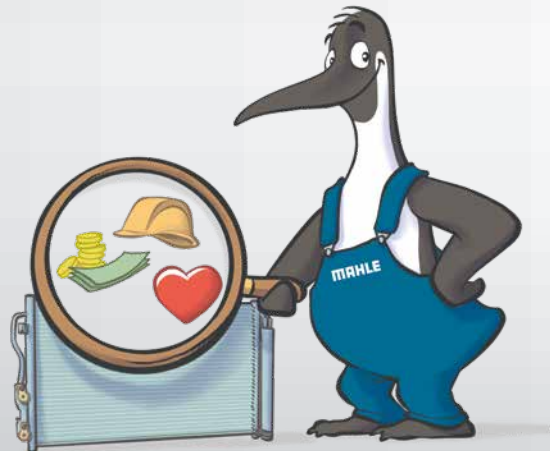


Service booklet
Vehicle air conditioning

BEHR®



Tips for using the air conditioning

Operation and optimal use of the air conditioning system

- The evaporator is integrated into the heating box, which allows the air conditioning to be used throughout the year.
- Many air conditioning systems switch off automatically at outside temperatures below +4°C.
- For pleasant dry air/clear windows: switch on the air conditioning, set the heating controller to red, direct the air flow to the windshield, select the air recirculation function, put the blower on the highest setting, and deactivate the air recirculation mode again after a short time.

- When you park, if you've been using the air conditioning, you'll find that water has collected under the vehicle—this is a result of dehumidification.

Pleasant/efficient cooling

- The interior temperature should be a maximum of 5 to 6 degrees below the outside temperature (recommendation: at least 22°C).



MAHLE

ArcticPRO

R134a

R134a

Tips for using the air conditioning

Parking in the shade

- On sunny days, park your car in a shaded spot if possible.
- If the car is parked in the sun, the inside temperature can rise as high as 60°C.
- Before starting your journey, ventilate the cabin.
- Just before you drive off, set the air conditioning and ventilation to maximum, with air recirculation mode selected.



Caution:

If the engine overheats when the air conditioning system is in operation, do not use the air conditioning until the vehicle has been examined and the cause of the problem has been eliminated.

For more information on using your air conditioning system and its features, please refer to your vehicle's operating manual.

Care and maintenance of the air conditioning system

Filter-drier

- Air conditioning systems for vehicles are equipped with a filter-drier.
 - A desiccant is used to remove moisture from the refrigerant, and it also acts as a filter.
 - Important: Air conditioning systems must be kept completely dry; otherwise, the moisture can transform into acid and damage components.
- As its capacity is limited, precautionary replacement of the filter-drier is recommended in older vehicles and/or vehicles with high mileage in order to protect the air conditioning system against damage caused by humidity in the system.
 - The filter-drier must also be replaced whenever the system has been opened for repairs.

Care and maintenance of the air conditioning system

Disinfecting the heat exchanger/evaporator

- Evaporation cooling (humidity) is discharged into the ventilation system.
- Alternating between cooling and heating creates an ideal breeding ground for spores and bacteria.
- Only regular disinfection can remedy this—watch out for a fusty smell in the vehicle.

Refrigerant/oil

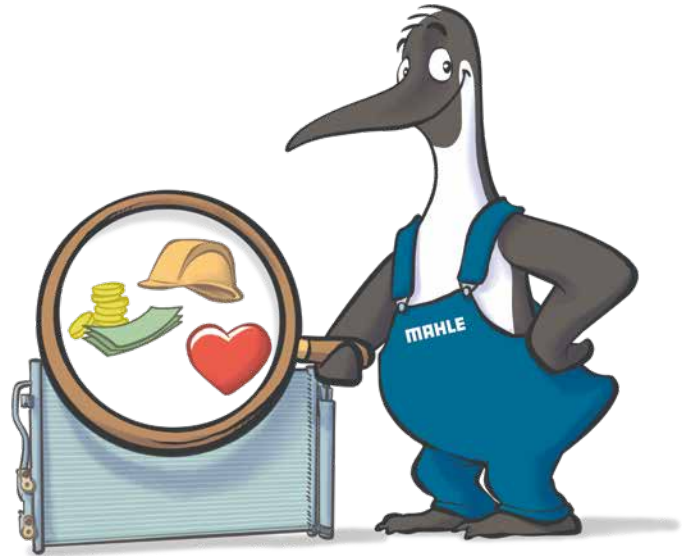
- Air conditioning systems can lose up to 10% of the refrigerant every year through natural evaporation, leading to diminished performance.
- Turn on the air conditioning for a few minutes at least once a week—this will ensure that the shaft seal of the compressor remains lubricated. Otherwise, the refrigerant may escape at the gasket.
- If nothing is done to prevent refrigerant loss, rust can form on the internal parts.

Replacing/cleaning the cabin filter

- Contamination reduces cooling/heating performance and can cause windows to fog up.
- The cabin filter should be replaced/cleaned once a year or every 15,000 km.



Good to know! In comparison with conventional cabin filters, MAHLE's CareMetix® cabin filters ensure that no intensive odors, mold, bacteria, or allergens enter the vehicle interior.



The MAHLE air conditioning service

1. Draw off the refrigerant
2. Suction moisture from the system with a high-performance vacuum pump
3. Visually inspect/check drive belts, condenser, lines, wiring
4. Carry out leakage test
5. Fill the air conditioning system with the manufacturer's specified quantity of refrigerant
6. Check the compressor, expansion valve, pressure control switch, and fan

7. Replace the cabin filter (once a year or every 15,000 km)
8. Disinfect the heat exchanger/evaporator (if necessary)
9. Where necessary, replace the filter-drier
10. Carry out performance and leakage test on the entire system
11. Document test results



You can find more useful
information about
A/C maintenance here.



Proof of service—A/C service

Manufacturer

Model

Registration number

Chassis number

MAHLE

A/C service



Mileage _____ Date _____

Filling quantity _____

Disinfected

New filter-drier

New cabin filter

Contrast agent

Next service:

Mileage _____ Date _____

BEHR®

MAHLE

A/C service



Mileage _____ Date _____

Filling quantity _____

Disinfected

New filter-drier

New cabin filter

Contrast agent

Next service:

Mileage _____ Date _____

BEHR®

MAHLE

A/C service



Mileage _____ Date _____

Filling quantity _____

Disinfected

New filter-drier

New cabin filter

Contrast agent

Next service:

Mileage _____ Date _____

BEHR®

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A/C service



Mileage _____ Date _____

Filling quantity _____

Disinfected

New filter-drier

New cabin filter

Contrast agent

Next service:

Mileage _____ Date _____

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A/C service



Mileage _____ Date _____

Filling quantity _____

Disinfected

New filter-drier

New cabin filter

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A/C service



Mileage _____ Date _____

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Disinfected

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Contrast agent

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A/C service



Mileage _____ Date _____

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New filter-drier

New cabin filter

Contrast agent

Next service:

Mileage _____ Date _____

BEHR®

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A/C service



Mileage _____ Date _____

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New filter-drier

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A/C service



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New cabin filter

Contrast agent

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A/C service



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New filter-drier

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A/C service



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New filter-drier

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A/C service



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Disinfected

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Next service:

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BEHR®

MAHLE

A/C service



Mileage _____ Date _____

Filling quantity _____

Disinfected

New filter-drier

New cabin filter

Contrast agent

Next service:

Mileage _____ Date _____

BEHR®



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