

64 08 00 (645)

Musty odour due to heating and air conditioning system, evaporator cleaning

All model series

Complaint:

When operating the heating and air conditioning system, a musty odour briefly occurs in the vehicle. This occurs mostly immediately after starting the engine with the heating and air conditioning system switched on or after switching off the heating and air conditioning system while driving.

Cause:

The cause for the complaint is not a fault in the heating and air conditioning system of the vehicle. The formation of odour is due to environmental influences during the operating period of the heating and air conditioning system.

This is caused by the constant condensation of air humidity at the evaporator over a long operating period of the heating and air conditioning system, creating a favourable environment for bacteria and other micro-organisms.

Together with dirt contamination brought in by the fresh air, this may cause microbiological growth on the evaporator and consequently a musty odour.

Regularly changing the microfilter may reduce the entry of dirt contamination and therefore delay or prevent the development of aforementioned complaint.

Replacement of the evaporator has no continuous effect as microbiological organisms may redevelop.

Invoicing as warranty is not justifiable as there is no technical fault.

Vehicles concerned: All series with heating air conditioning system (IHKR) or automatic air conditioning (IHKA)

Procedure:

1. Evaporator cleaning with spray lance

The most efficient and lasting method of eliminating the musty odour from the heating and air conditioning system is to clean the evaporator with the aid of a spray lance. With this procedure, the disinfectant is sprayed with high pressure directly on the evaporator.

Description of the operations:

For the detailed description of the procedure for the following series, please see the respective repair instructions:

- E39/E53 with heating and air conditioning system (IHKR): Cleaning evaporator
- E39/E53 with automatic air conditioning (IHKA): clean evaporator (automatic air conditioning)
- E46 with heating and air conditioning system (IHKR): Cleaning evaporator
- E46 with automatic air conditioning (IHKA): clean evaporator (automatic air conditioning)

- E65/E66 with heating and air conditioning system (IHKR) or automatic air conditioning (IHKA): Cleaning evaporator
- E60/E61/E63/E64 with heating and air conditioning system (IHKR) or automatic air conditioning (IHKA): Cleaning evaporator
- E85/E86 with heating and air conditioning system (IHKR) or automatic air conditioning (IHKA): Cleaning evaporator
- E81/E82/E87/E88/E90/E91/E92/E93 with heating and air conditioning system (IHKR) or automatic air conditioning (IHKA): Cleaning evaporator
- E70/E71/E72 with heating and air conditioning system (IHKR) or automatic air conditioning (IHKA): Cleaning evaporator
- F01/F02/F03/F04/F06/F07/F10/F11/F12/F13/F18 with automatic air conditioning (IHKA): Cleaning evaporator
- F20/F21/F30/F31/F34/F35 with automatic air conditioning (IHKA): [Cleaning evaporator](#)

2. Cleaning with the evaporator cleaning device "Aircomatic"

As an alternative, the evaporator can be cleaned using the "Aircomatic" cleaning system made by WYNN'S. For this purpose, use the "Airco-Clean" cleaning agent made by the same company.

WYNN'S describes this procedure as "Ultrasound procedure".

The cleaning power using the "ultrasound procedure" is lower as compared to cleaning with a spray lance.

If the "ultrasound procedure" does not bring long-term success due to very severe dirt contamination of the evaporator, clean the evaporator using a spray lance and the heating and air conditioning system cleaning agent.

Note:

This procedure is to be used for vehicles for which no spray lance is offered.

Description of the operations:

- Remove microfilter (replace with new filter after cleaning).
- Start the vehicle.
- Switch off heating and air conditioning system.
- Set temperature control to lowest value.
- For automatic air conditioning (IHKA): Switch off automatic air distribution/supply.

- Select the lowest blower speed.
- Set ventilation to upper body area.
- Adjust air supply to air recirculation function.
- Shake the "Airco-Clean" bottle well.
- Place the ultrasound device upside down.
- Screw in the "Airco-Clean" bottle with its opening facing upwards into the device.
- Return ultrasound device to initial position allowing the contents of the bottle to partially flow into the device.
- Place the ultrasound device in the footwell on the passenger's side.
- Connect the atomisation hose to the device.
- Place the atomisation hose so that the recirculated air system can take in the emitted vapour well.

Do not kink the hose!

- Connect the ultrasound device using the included cable.

Atomisation starts!

- Close vehicle doors and windows.

Note:

No one must remain in the vehicle during treatment!

- Treatment is complete after approx. 20 minutes and the ultrasound device stops.
- After treatment, open doors and air the vehicle for approx. 5 minutes.
- After treatment pour out the residual liquid in the ultrasound device.
- Briefly rinse the ultrasound device with water.

Parts required: 1. Cleaning with spray lance

Spray lance	Order/part number	Quantity
- E39/E46/E53/E83	64 1 450	1
- E65/E66/E67 (left hand drive vehicle)	64 1 280	1
- E65/E66/E67 (right hand drive vehicle)	64 1 290	1
- E60/E61/E63/E64	64 1 480	1

- E85/E86 (left hand drive vehicle)	64 1 490	1
- E85/E86 (right hand drive vehicle)	64 1 250	1
- E81/E82/E87/E88/E90/E91/E92/E93 (left hand drive vehicle)	64 1 260	1
- E81/E82/E87/E88/E90/E91/E92/E93 (right hand drive vehicle)	64 1 270	1
- E70/E71/E72 (left and right hand drive vehicle)	64 1 300	1
- F01/F02/F03/F04/F06/F07/F10/F11/F12/F13/F18	83 30 2 222 502	1
- F20/F21/F30/F31/F34/F35	83 30 2 344 001	1

Spray gun

SATA spray pistol	81 45 9 429 217	1
-------------------	-----------------	---

Heating and air conditioning system cleaning agent

Heating and air conditioning system cleaning agent (<u>only for cleaning with spray lance!</u>)	83 19 0 447 911	1
--	-----------------	---

Heating and air conditioning system cleaning agent is used undiluted. No rinsing required.

The spray lance and spray gun can be obtained from the special tools online catalogue, the heating and air conditioning system cleaning agent directly from the BMW Parts Department.

2. Cleaning with the evaporator cleaning device "Aircomatic"

(Valid for all series)

Designation	Part number	Quantity
Set heating and air conditioning system cleaning agent (consisting of "Aircomatic" cleaning system and "Airco-Clean" heating and air conditioning system cleaning agent)	83 19 2 167 729	1
Airco-Clean heating and air conditioning system cleaning agent (<u>only for "Aircomatic" cleaning system!</u>)	83 19 2 167 730	1

Heating and air conditioning system cleaning agent is used undiluted.

The "Aircomatic" cleaning system and "Airco-Clean" cleaning agent can be obtained directly from the BMW Parts Department.