



[herthundbuss.com/
en/acservicing](https://herthundbuss.com/en/acservicing)

A/C servicing made simple!

Breathe easy!



Passt immer!

A/C system servicing

Everything you need for a proper air conditioning check!

Nowadays, most vehicles come with air conditioning as part of their standard equipment. The reason: If it gets too hot in a vehicle, it not only becomes unpleasant for the driver and passengers, but dangerous as well. If A/C servicing isn't performed, individual

parts may also suffer significant damage. Spring is a good time for having your air conditioning checked. Experts recommend having A/C inspected by a workshop at least once a year.

Our tips for satisfied customers and an optimum service offering

» Tip 1:

Functional check and visual inspection

Tests for pressure, tightness and damage to hoses and lines are performed to start with. It may then be possible to already identify initial causes for malfunctioning of the A/C system.

» Tip 2:

Cabin filter replacement

To supply the interior with sufficient clean air, the cabin filter should be changed whenever A/C servicing is performed. To that end, our Jakoparts range includes an extensive assortment of cabin filters for Asian vehicle models. We also have biofunctional cabin filters in our range, especially for allergy sufferers. The special and natural polyphenol coating of the biofunctional filters binds allergens and prevents moulds and bacteria from getting into the vehicle interior.

» Tip 3:

Disinfection

A good air conditioning service also includes disinfecting the AC system. Our AirPure system lets you disinfect the vehicle interior and its air conditioning with little effort, so eliminating germs, fungi, viruses and bacteria on a purely mineral basis.

» Tip 4:

Coolant replacement

Coolant is partly responsible for optimum functioning of the air conditioning system. The law specifies a maximum permissible upper limit of 40 g/year for vehicles with an evaporator and 60 g/year for vehicles with two evaporators. When more coolant escapes, the system is leaking. If there is a leak, we recommend using our **SelectH₂** selective gas detector. Even the smallest leaks can be easily identified as the **SelectH₂** responds to forming gas with its acute sensor system.

» Tip 5:

Top up the A/C compressor with oil

One important tip for all air conditioning service devices which do not automatically refill the compressor oil: the compressor oil drained off must be replaced with the same quantity of new oil.



System based high-quality cabin filter

For fresh air in the vehicle!

Our cabin filters ensure reliable removal of pollutants from the ambient air and ensure a continuous supply of fresh air in the vehicle interior. This increases the comfort of occupants and makes an important contribution to health and safety - especially for allergy sufferers. Annual replacement is necessary as saturated filters result in hygiene risks and significantly reduce the filter performance and the efficiency of the air conditioning system.

Cabin filters
Article number: J134*

Cabin filters
Biofunctional filters
Article number: J134*BF

Our AirPure air conditioning system disinfectant is the ideal solution for disinfecting the vehicle interior even more effectively. You can find out more about using the AirPure on the following pages of the magazine.

We offer three filter versions, which have the same basic design but each have an additional functional layer. While conventional cabin filters filter pollen, dust, soot and abrasion particles larger than 3 µm from the ventilation flow and activated carbon filters also provide protection against odours, exhaust gases and ozone, bacteria and mould can spread in the vehicle interior despite filtering.

Our online catalogue enables you to quickly and easily find the right filter for your vehicle.



Breathe fresh air again

with our biofunctional cabin filters

Our biofunctional filters go one step further: They bind free allergens and inhibit the growth of bacteria and moulds thanks to an additional polyphenol coating. This effectively improves the fresh air supply, reduces allergic reactions and significantly increases the well-being of the occupants, particularly allergy sufferers.

Added to the product range

In addition to cabin filters, our Jakoparts range also includes a wide selection of fuel, oil and air filters for Asian car models. This means that we can guarantee extensive vehicle coverage and the accuracy of fit and allocation quality that set us apart from our competitors.

» Biofunctional filter design

1 Biofunctional layer

- Additional and natural polyphenol coating
- Binds free allergens
- Inhibits the growth of bacteria and moulds

Actively filters: Allergens Bacteria

2 Activated carbon layer

- Absorbs harmful gases such as nitrogen oxides, methane, fuels or ozone
- Neutralises unpleasant odours

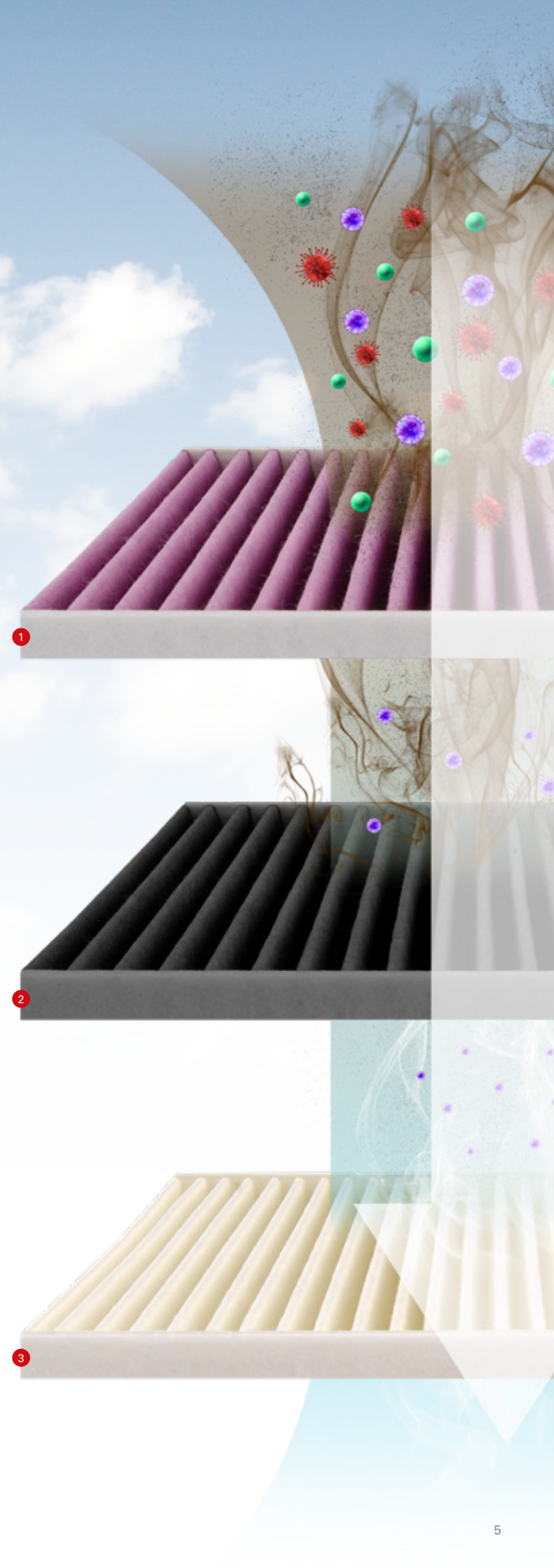
Actively filters: Odours

3 Particulate filter

Melt-blown electrostatic layer including protective coating

- Reliably filters pollen, dust, soot and abrasion particles (> 3 µm)
- Stops even the smallest particles such as fine dust
- Ensures clean fresh air in the vehicle interior

Actively filters: Fine dust Pollen





AirPure

Professional A/C disinfection

» **Completely non-hazardous, highly effective and purely mineral based**

With AirPure, our BUSCHING brand range provides a state-of-the-art solution for professional interior and air conditioning disinfection. The system has been specially developed for efficient workshop use and enables reliable reduction of germs, bacteria, viruses and fungi throughout the vehicle interior - including the air conditioning system.

Four different types of disinfection have become established in practice. These can be categorised as follows:

Ozone disinfection
Ozone is generated from the air using an ozone generator. Ozone is a highly reactive form of oxygen. It spreads throughout the space and eliminates all micro-organisms.

Spray disinfection
The agent is generally sprayed from a bottle onto the surface to be disinfected.

Hot atomisation (thermal atomisation)
This process involves vaporising a chemical solution in a device similar to a fog machine and then discharging it into the ambient air through a nozzle.

Neutral atomisation (aerosol atomisation)
An active agent is very finely atomised with a special nozzle. The fine mist reaches all areas and the agent takes effect in the full space.



Spray gun, air conditioning cleaner/ disinfectant
AirPure
Article number: BU075061

Air conditioning cleaner/disinfector (1000 ml)
AirPure
Article number: BU075060

AirPure uses aerosol atomisation. Thanks to the use of minerals and neutral atomisation, it is used without ozone, with no aggressive chemicals and without any additional stress for the environment or personnel. This makes AirPure ideal for regular hygiene measures and for targeted use in vehicles with a high user turnover or increased hygiene requirements.

All the benefits at a glance

Reliable disinfection Reduces germs, bacteria, viruses, fungi as well as mould, pollen and spores inside the vehicle and in the air conditioning system	Fast & efficient Short application time, no waiting time – vehicle can be used again immediately	Flexible & maintenance-free Manually controlled neutral atomisation for targeted application, easy cleaning without any maintenance work
Pure mineral based & ozone-free Works without chemicals, is non-toxic and biodegradable Safe for people & the environment No risk of contamination for workshop personnel, harmless to health	Can be used universally For passenger cars, commercial vehicles, mobile homes, construction and agricultural machinery, ideal for changing users	Fine neutral atomisation Extremely easily suspended mist reaches even difficult-to-access areas behind panelling

AirPure works on the principle of neutral atomisation

AirPure is based on a purely mineral active substance solution, developed for compressed air-based neutral atomisation. Disinfection takes place without ozone and with no aggressive chemicals, enabling uniform, deep and effective disinfection of the interior, ambient air and air conditioning.

» **Operating principle at a glance:**

Mineral effect The active substance is microbiologically reliable without forming toxic or irritant by-products	Excellent distribution The aerosol reaches the entire interior, into ventilation ducts and into the air conditioning system even in concealed areas.
Ultra-fine neutral atomisation The compressed air-based atomisation generates a easily suspended aerosol with a large surface area and a high contact effect	Targeted control Alignment of the spray gun and opening and closing ventilation nozzles determine the direction of propagation of the mist
Supply into the interior Controlled and flexible feeding of the active substance through the vehicle window using a spray gun and compressed air hose	Circulation support Circulation ventilation transports the active substance through the entire interior and the air conditioning system
	Physical inactivation of micro-organisms Germs, bacteria, viruses, fungi and spores are reliably inactivated by applying the active substance

Practical example

» Ten steps for successful vehicle disinfection

Before starting disinfection of the vehicle, you should first clean the vehicle thoroughly as dirt cannot be eliminated by the disinfection process. This is the only way to achieve satisfactory results!



00:00



1. Position the vehicle in a cool, well-ventilated location. It is important to always keep an eye on the temperature range during use! If the temperature becomes too hot, for example, insufficient mist will be able to form in the vehicle.



2. Remove and dispose of the cabin filter. At this point, you can also clean and disinfect the cabin filter box if necessary.



4. Connect the device to an oil-free compressor. The compressor must have an adequate continuous operating capacity with an effective delivery quantity of >100 l/m and a set pressure of 4 bar.



3. Fill your spray gun with the disinfectant. The quantity varies depending on the vehicle size, the intensity of the odour and the degree of contamination.



5. Set the ventilation system to level 1 and spray the disinfectant into the vehicle interior through the air intake opening in the HVAC system. Feed the agent in until the vehicle interior has become visibly filled with mist. Leave the mist to take effect for approx. one minute.

6. Place the spray gun in the vehicle interior or attach it to the inside of the slightly open window with the holder. Set up an external power supply for the vehicle electrical system or leave the engine running.



7. Now turn the device off and remove the spray gun. Close the door and let the ventilation run for a further 2-5 minutes.



9. You may now install new filters in the vehicle.



15:00



Set the fan to the middle level at approx. 20°C, open all air nozzles and activate circulating air. Close the doors or leave them only slightly ajar. Open the compressed air feed until there is significant formation of mist in the interior.



8. Next, open all doors and the boot to briefly air the vehicle.



10. In just 15 minutes, you have successfully disinfected the A/C system and the vehicle!

Regular disinfection of the A/C system.

Why is it necessary?

Operation inevitably results in moisture in vehicle air conditioning systems. Neutral components such as the evaporator ensure that humidity condenses. As large volumes of air flow through the evaporator, a correspondingly large amount of condensation remains behind. This effect becomes visible, especially when the outside temperature is warm, when water puddles form under the vehicle. This becomes problematic when the vehicle is switched off and

the moisture remains in the air conditioning box for a long period of time. Warm and humid environments provide ideal conditions for the proliferation of mould, fungi and bacteria. These micro-organisms settle on the evaporator and in the air ducts, propagate there and pass into the vehicle interior with the flow of air. This results in unpleasant odours and health risks, particularly for allergy sufferers and people with respiratory diseases.

The most important risks at a glance:

- Formation of condensation on the evaporator due to A/C operation
- Humid warm environment as a breeding ground for micro-organisms
- Distribution of germs into the interior via the ventilation system
- Unpleasant smells and possible health impairments

Hygiene requirements in accordance with VDI Directive 6032

The updated version of VDI Directive 6032, Air quality in vehicles, published in May 2015 takes these risks into account. It requires regular cleaning of air conditioning and ventilation systems in order to ensure a supply air quality that is not harmful to health. The directive is aimed at vehicle manufacturers, owners and fleet operators and sets out binding hygiene standards.

Conclusion

Purely technical testing is not sufficient for professional maintenance of vehicle A/C systems. In addition, regular hygienic cleaning and disinfection measures are required to ensure permanently high air quality in the vehicle interior. Only cleaning agents and disinfectants that comply with the applicable European standards may be used.

Regular servicing of the A/C system is therefore essential. In addition to replacing the cabin filter, disinfection of the A/C system and the vehicle interior should always be carried out in order to ensure long-term hygiene and comfort, and to protect the health of vehicle occupants.

Do you have any more questions?

Our FAQs

We have compiled answers to some of the most frequently asked questions (FAQs) for you below.

How long can the disinfectant be kept for?

When unopened and adhering to the stipulated storage conditions, the product can be kept for a maximum of twelve months. Please refer to the information on the label. When opened and when adhering to the prescribed storage conditions, the product can be kept for a maximum of 6 months.

Can any type of compressor be used?

Yes, in principle. However, it is recommended using an oil-free compressor. When utilising conventional compressors with lubrication, a reliable oil trap and filter must be used. The following must be guaranteed:

- Clean compressed air with no rust residues, condensate or oil content. Even the smallest quantities of oil, rust or other impurities may impair the effectiveness of the disinfectant.
- Effective supply quantity >100 l/min
- Maximum pressure of four bar
- The compressor must be able to operate continuously to an adequate extent

Where should vehicle disinfection be carried out?

Disinfection should be carried out in ventilated internal areas or outside (not in the rain) at an ambient temperature of 20 to 25 °C. Direct sunlight and an internal vehicle temperature of over 25 °C should be avoided.

What must I pay attention to when disinfecting the A/C system or the vehicle?

The cabin air filter should be removed prior to disinfection and be replaced by a new one after disinfection has been carried out. The mist should also be fed directly into the air intake ducts to ensure adequate distribution of the medium throughout the air conditioning system. The vehicle manufacturer's instructions must be observed. In general, the vehicle must always be thoroughly cleaned before disinfection.

How much air-conditioning cleaner is required for each application and each type of vehicle?

The consumption rates for air-conditioning cleaner are approximately as follows:

- Small car: application time 5 minutes; consumption 70 ml
- Mid-range car: application time 10 minutes; consumption 100 ml
- Van/SUV/minibus: application time 12 minutes; consumption 120 ml



SelectH2

Accurate leak location in air-conditioning and cooling systems

SelectH2 provides automotive workshops with a high-precision, time-saving and environmentally friendly gas detector specially developed for leak detection in A/C systems and closed systems. The method based on forming gas 95/5 (95% nitrogen, 5 % hydrogen) is an efficient alternative to the contrast agent and UV process and enables even the smallest leaks to be found quickly, reliably and without consequential damage to components or air conditioning service units.

» Device technology and operating principle

■ Leak detection with forming gas 95/5

The evacuated A/C system is filled with forming gas, which is distributed evenly throughout the system. The gas is non-toxic, non-flammable, cost-effective and environmentally friendly.

■ Maximum detection sensitivity

Hydrogen is the smallest and most volatile atom and diffuses even the finest hairline cracks faster than refrigerant such as R134a or R1234yf. The smallest leaks are detected within a very short time.

■ Selective sensors

Two highly sensitive gas sensors respond exclusively to hydrogen. Misdiagnosis due to oil, fuel or solvent vapours is reliably ruled out.

■ Clear leakage indicator

Acoustic and visual signal, as well as ppm display (measurement from 0 ppm) on the LCD display, enable precise localisation of leaks.

■ Active sampling

Integrated suction pump with exhaust gas outlet ensures fast and reproducible measurement results – ideal for use in windless workshop areas.

■ Flexible leak detection

Swan necks (320 mm or 500 mm) enable targeted testing of difficult-to-access areas.

■ Gentle diagnosis without disassembly

Evaporators and heat exchangers can be tested without removing the dashboard - e.g. via the cabin filter or air nozzles. This eliminates costly misdiagnoses.

■ Ready to use quickly

Short heating-up time (approx. 30 seconds), simple preparation of the system, no disassembly required

■ Variable test pressure

Thanks to the cylinder pressure regulator, it is possible to work at varying pressures – ideal for identifying vibration leaks

■ Wide range of applications

Suitable for passenger car, lorry and bus A/C systems and other closed systems (e.g. coolers, heat exchangers, compressed air systems).

■ Checking after repairs

After repair work, re-checking with forming gas is recommended as part of a safe function check.



Equipment & features

- Made in Germany
- Ergonomic aluminium housing
- LCD display with battery level and charging indicator
- Acoustic and visual warning signal
- Two highly sensitive hydrogen sensors
- Suction pump with exhaust outlet
- Suitable for R134a and R1234yf
- Simple and intuitive to use

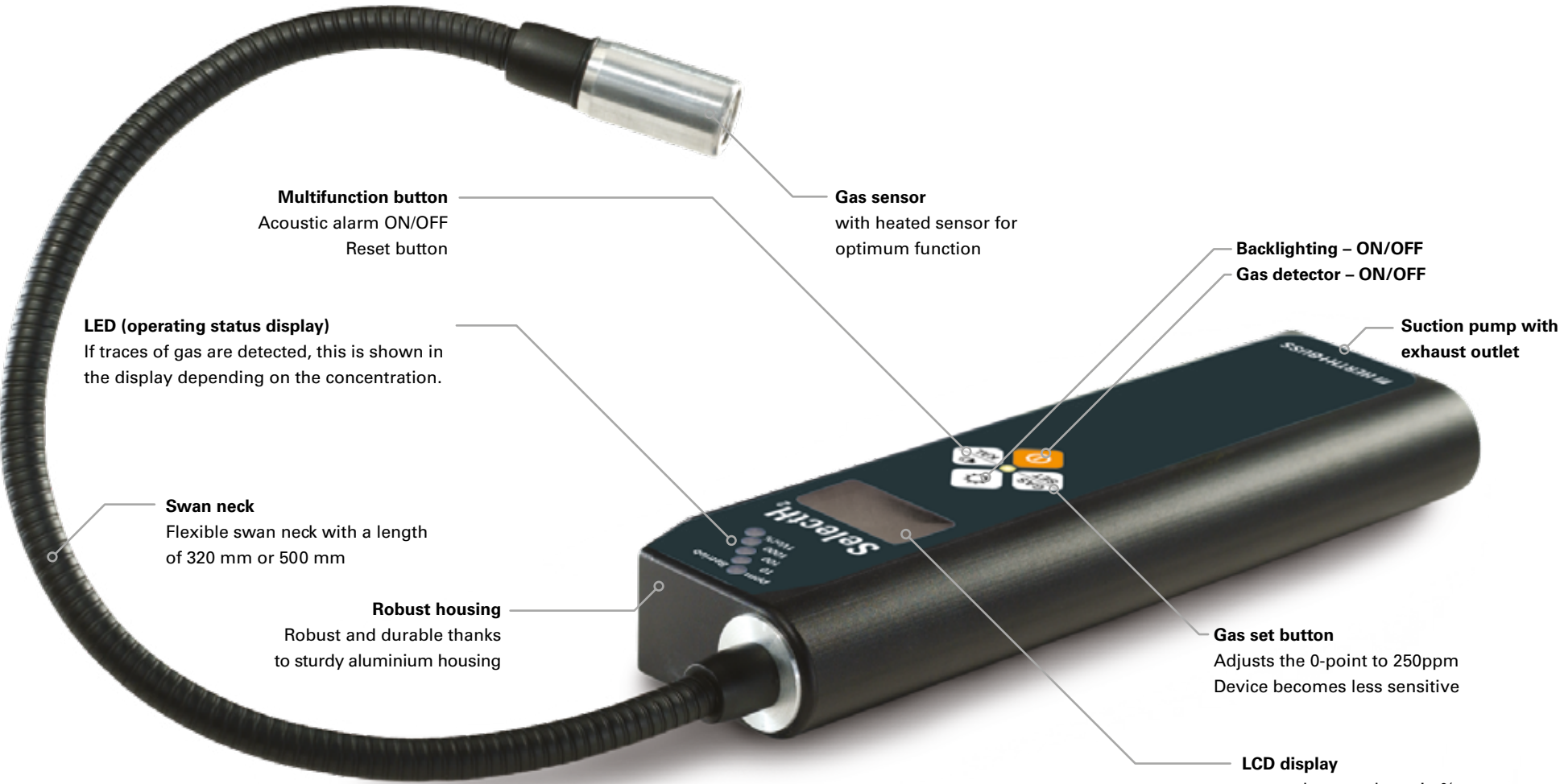
SelectH2 – Advantages at a glance

- Maximum precision: Detects even the smallest leaks in the ppm range
- Time savings: Most leaks will be found in less than an hour – immediate diagnosis without a second appointment
- No consequential damage: No contrast agent, no stuck valves or service units
- Selective & reliable: Reacts exclusively to hydrogen - no false alarms
- Environmentally friendly & economical: Non-toxic, non-flammable forming gas, cost-effective and compliant with standards

SelectH2

Design and functional components

The SelectH2 is a compact gas detector manufactured in Germany for professional leak detection in air conditioning and refrigeration systems. It is suitable for both passenger cars and HGV and bus air conditioning systems. Two selective gas sensors and an integrated suction pump respond exclusively to hydrogen and prevent false indications caused by petrol or oil vapours. The flexible swan neck and clear LCD display support accurate and safe use. The following diagram shows the design and individual functional components of the unit.



SelectH2 variants

» Decide for yourself!

	SelectH2 95980002	SelectH2 95980024
Availability	Available from stock	Special procurement
Display	With illuminated LCD display, with battery status indicator, with LED display	with illuminated LCD display, with battery status indicator, with LED display
Length of gooseneck	320 mm	500 mm
Housing type	Aluminium housing	Aluminium housing
Dual sensor technology GGS 1000 / GGS 6000	Broadband H2 selective	Broadband H2 selective
W x H x D	52 x 178 x 35 mm	52 x 178 x 35 mm
With audible alarm	■	■
with suction pump	■	■
Automatic zero calibration with fresh air	■	■
Automatic sensor check with error detection	■	■
Power supply		
Output voltage	12 V	12 V
Plug type	Round plug	Round plug
Diameter	3.5 mm	3.5 mm



BRIEF DESCRIPTION

The high sensitivity of the gas detector makes it possible to detect traces of gases in the ppm range. For example, 1 ppm (part per million; number of particles per million other particles) equates to a quantity of 1 cm³ of gas in 1 m³ of air. The SelectH2 gas detector can measure up to 999 ppm in this dimension.

When the figure reaches 1,000 ppm, the display switches to the % by volume range and changes to 0.1 % vol.

Part per million (ppm)	Percentage by volume (%)
1 ppm	0,000%
10 ppm	0,001%
100 ppm	0,01%
1.000 ppm	0,1%
10.000 ppm	1%
100.000 ppm	10%
1.000.000 ppm	100%

GOOD TO KNOW!

Invisible hazard
Investigations have shown that the GWP (Global Warming Potential) value of R134a is around 1,300 times higher than that of CO₂. According to the manufacturer's specifications, the leakage rate of A/C systems today amounts to around eight percent p.a. According to the German Federal Ministry for the Environment, 1800 tonnes of the coolant R134a from passenger car A/C systems were released into the atmosphere in 2020 in Germany alone. This corresponds to 2.6 million tons of CO₂. Since August 2006 and today, supplemented by the EU Regulation (EU) 2024/573 on fluorinated greenhouse gases, workshops are legally obliged to eliminate leaks before refilling a refrigerant. The use of refrigerant for leak detection is no longer permitted. Since 1 January 2017, R134a has been prohibited in all new cars throughout Europe. This means that R134a will gradually need to be replaced by new coolants that reduce the greenhouse effect. Since 1 January 2022, it has also been prohibited to place commercially used refrigerators and freezers with the coolant R134a on the market. By 2025, further devices with particularly climate-damaging F-gases are to be removed from the market.

Coolant HFO-1234yf
The coolant HFO-1234yf or R1234yf has been used in air conditioners in vehicles with new type approvals since January 2011. This means that the proportion of vehicles with A/C systems containing this coolant is constantly increasing. Workshops will need to adjust to using this new coolant in the future.

But will this change anything about leak detection?
With our SelectH2 gas detector, you can continue leak detection as usual. The type and coolant do not matter here. Leak detection using forming gas therefore remains the cheapest and most effective solution!

The SelectH₂ family

Our products in an overview

FULL SET



SelectH₂
Leak search set, air conditioning
Set:
95980002, 9598002002, 95980028001, -002, 95980027, 95980027004, -005

95980028

Set includes



SelectH₂
Adapter, air conditioning service unit
usable for refrigerant R 134a high pressure side

95980027002

Set includes



SelectH₂
Adapter, air conditioning service unit
usable for refrigerant R 134a high pressure side

95980027004

Set includes



SelectH₂
Adapter, air conditioning service unit
usable for refrigerant R 134a low pressure side

95980027003

Set includes



SelectH₂
Adapter, air conditioning service unit
usable for refrigerant R 134a low pressure side

95980027005

Set includes



SelectH₂
Leak search set, air conditioning
Length of gooseneck: 320 mm with suction pump

95980002

Set includes



SelectH₂
Installation Aid Set, air conditioning service unit
Number of manometers: 2
Manometer diameter: 80 mm

95980027

Set includes



SelectH₂
Cylinder Pressure Regulator
inlet pressure to 200 bar
outlet pressure 1 - 20 bar with left-hand thread

95980027

Optional accessories



SelectH₂
Sight Glass, coolant analysis
Refrigerant: R 134a
Refrigerant: R 1234yf
Hose Length: 800 mm

95980029

Optional accessories



SelectH₂
Filler Hose Set, air conditioning service unit
connecting thread: SAE
inner thread: 1/4 Inch

95980027001

Optional accessories

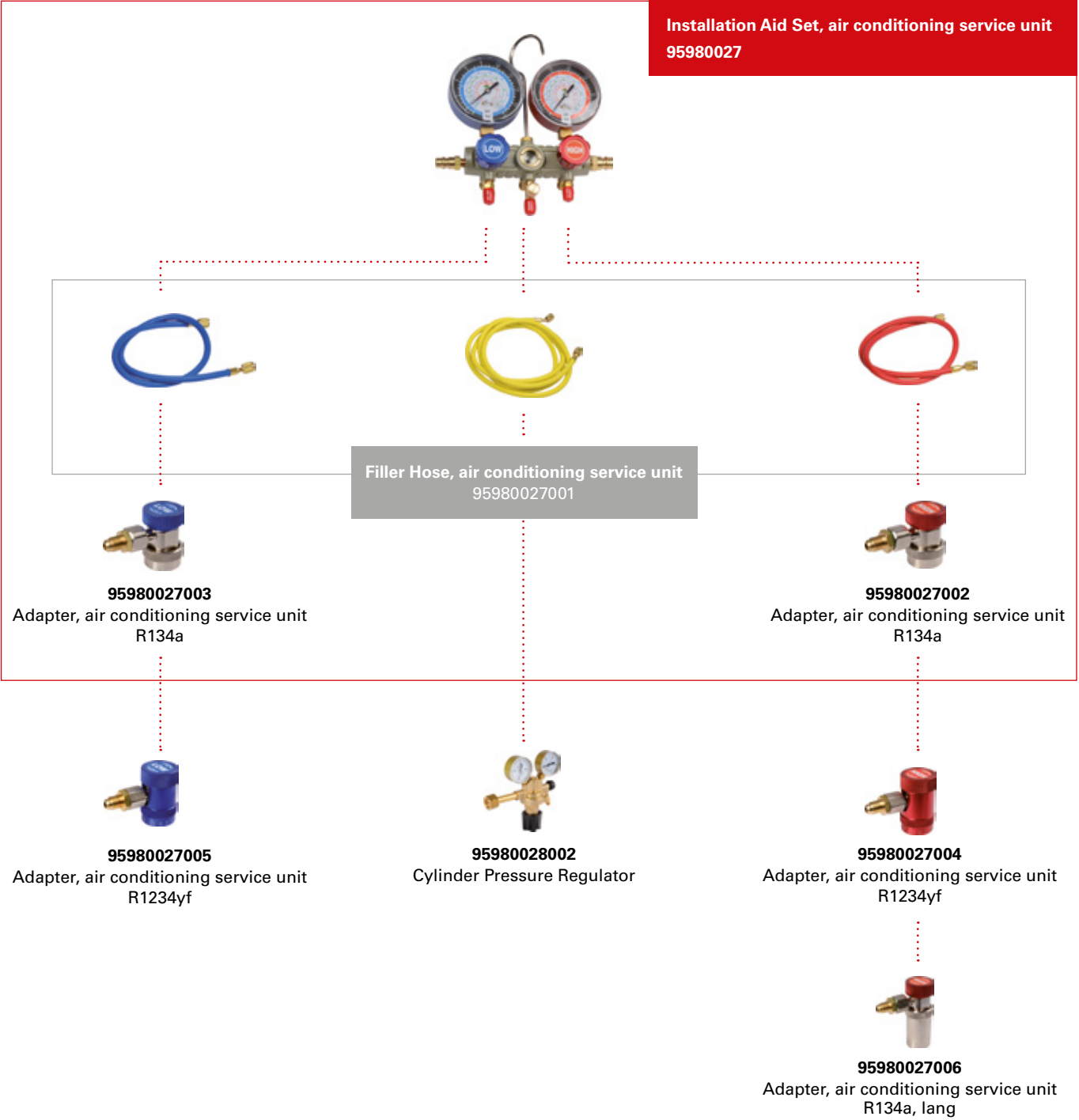


SelectH₂
Adapter, air conditioning service unit
usable for refrigerant R 134a high pressure side
extra long

95980027006

Installation Aid Set

Schematic



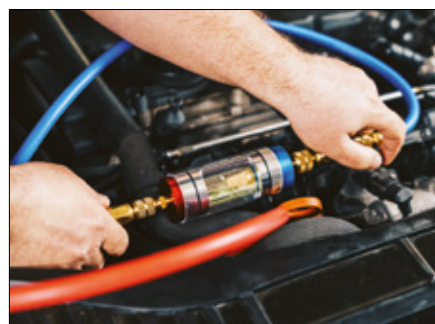


The sight glass with suitable visibility

In addition to the SelectH2, we also offer a sight glass for visual inspection of the refrigerant or compressor oil. This provides valuable information on the condition of the refrigerant. For example, it is possible to check whether chips or other foreign bodies are present in the system, whether the compressor oil has become discoloured or whether water is present. The connections for R134a or R1234yf must be ordered separately.

- With integrated filter
- Easily disassembled for cleaning

SelectH2 sight glass, refrigerant analysis
Article number: 95980029



Practical example

Leak search with SelectH2

Evacuation



Evacuate the air-conditioning system using a suitable A/C service unit.

Filling with forming gas 95/5



Now fill the high-pressure side of the air-conditioning system. With the help of the installation aid set (item no.: 95980027, also included in the leak detection set item no.: 95980028) can be filled to high and low pressure at the same time.

Heating up the device



The heat-up phase is signalled by the word "HEAT" and lasts approx. 50 seconds.

Leak Location



Guide the gas detector over the hose connections and components at a steady speed. You can read out the respective hydrogen concentration on the display. Rising ppm values indicate a leak.

Locating the leak



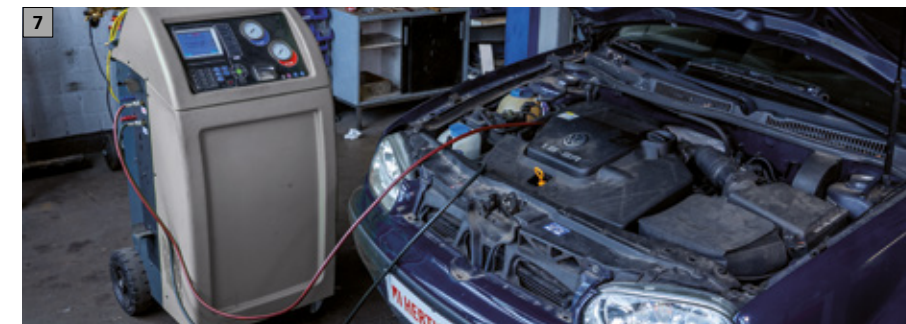
Leaks are also indicated by acoustic and visual signals.

Repair and inspection



After repairing the leak, it is recommended that another inspection be carried out using forming gas, followed by a function check.

Filling with coolant and testing for leak-tightness



Then fill the air-conditioning system with the appropriate coolant. Finally, perform a function check.



Universal repair solution for leaks in the climate control hose

RepAC range

Leaks in air conditioning lines often cost a lot of time and money. RepAC can be used to quickly and safely connect faulty aluminium pipes in the air conditioning system or replace damaged pipe sections with no additional special tools. A particular advantage is on site repair, which saves time and money, especially in agricultural and construction machinery and commercial vehicles. RepAC is available both as a comprehensive range for regular workshop use as well as individual sets for one-off repairs. The system includes 20 cm aluminium tubes with standard outer

diameters, suitable connection sets including seals for all standard refrigerants. The range is supplemented by the necessary tools such as pipe cutters, deburring machines and non-woven abrasives, meaning that all components are immediately on hand for professional repairs. Individual components can be supplemented with refill packs if required. The high quality and safety of the connections has also been confirmed by TÜV-tested burst pressure tests.

Checklist

Customer/order no.:

Official reference:

Date:

km status:

System type:

☒ R134a

☒ R1234yf

☒ R744 (CO₂)

☒ Front evaporator

☒ Rear evaporator

☒ Electrical compressor

Refrigerant analysis:

R134a

%

R1234yf

%

R744 (CO₂)

%

Air

%

HC

%

Pressure values:

High pressure

bar

Low pressure side

bar

at rpm

Temperature:

Outside temperature

°C

Outlet temperature interior

°C

Refrigerant quantity:

extracted

g

filled

g

Refrigerant oil:

extracted

g

filled

g

oil type

☒ Test result OK

☒ Test result not OK

☒ Repaired

1. General

☒

☒

☒

1.1 Read out fault memory

☒

☒

☒

1.2 Check software version/update

2. Control instruments/control elements

☒

☒

☒

2.1 Switch/control unit

☒

☒

☒

2.2 Fan motor function

☒

☒

☒

2.3 Interior temperature sensor (A/C automatic)

☒

☒

☒

2.4 Air distribution/circulation air function

☒

☒

☒

2.5 cabin filter

3. Interior

☒

☒

☒

3.1 Temperature (°C) at air outlet nozzles

☒

☒

☒

3.2 Odour development

4. Drive belts

☒

☒

☒

4.1 State/noise

☒

☒

☒

4.2 Voltage

5. Belt Tensioner

☒

☒

☒

5.1 Tension roller

☒

☒

☒

5.2 Bearing

☒

☒

☒

5.3 Noises

☒

☒

☒

5.4 Function

6. Belt pulleys, deflection and guide rollers

☒

☒

☒

6.1 Adjustment/distance

☒

☒

☒

6.2 Noises/state

7. Generator freewheel and torsion vibration damper

☒

☒

☒

7.1 State

☒

☒

☒

7.2 Noise

☒

☒

☒

7.3 Function

8. Compressor component

☒

☒

☒

8.1 Magnetic coupling

☒

☒

☒

8.2 Belt pulleys/bearing

☒

☒

☒

8.3 Overload/belt drive protection

☒

☒

☒

8.4 Overpressure safety valve

☒

☒

☒

8.5 Electrical connections

☒

☒

☒

8.6 Leaks

9. Filter dryer/rechargeable battery

☒

☒

☒

9.1 Tightness

☒

☒

☒

9.2 Connections/joins

☒

☒

☒

9.3 Fastening

10. Pressure switch/pressure sensor

☒

☒

☒

10.1 Tightness

☒

☒

☒

10.2 Function

☒

☒

☒

10.3 Electrical connections

Notes

Checklist

Air conditioning/heating/ventilation/cooling system

✓ Test result OK ✗ Test result not OK 🔧 Repaired

11. Condenser

- ✓ ✗ 🔧 11.1 Tightness
- ✓ ✗ 🔧 11.2 Function
- ✓ ✗ 🔧 11.3 Connections/joins

12. Hoses and pipes

- ✓ ✗ 🔧 12.1 Tightness
- ✓ ✗ 🔧 12.2 Connections/joins
- ✓ ✗ 🔧 12.3 Chafing points
- ✓ ✗ 🔧 12.4 Fastening

13. Service connection caps/valves

- ✓ ✗ 🔧 13.1 State
- ✓ ✗ 🔧 13.2 Service connections
- ✓ ✗ 🔧 13.3 Sealing cap/cover
- ✓ ✗ 🔧 13.4 HP/LP valves

14. Cooler/condenser fan

- ✓ ✗ 🔧 14.1 Air duct/fan cladding
- ✓ ✗ 🔧 14.2 Mounting
- ✓ ✗ 🔧 14.3 Function
- ✓ ✗ 🔧 14.4 Noise generation
- ✓ ✗ 🔧 14.5 Electrical connection/relay
- ✓ ✗ 🔧 14.6 Bearing clearance
- ✓ ✗ 🔧 14.7 Visco fan

15. Coolant Ventilation

- ✓ ✗ 🔧 15.1 Tightness
- ✓ ✗ 🔧 15.2 Fastening
- ✓ ✗ 🔧 15.3 Cleanliness/damage
- ✓ ✗ 🔧 15.4 Hoses and clamps
- ✓ ✗ 🔧 15.5 Air duct/covering

16. Coolant

- ✓ ✗ 🔧 16.1 Cleanliness
- ✓ ✗ 🔧 16.2 Coolant expansion tank/cover
- ✓ ✗ 🔧 16.3 Frost protection (°C)

17. Thermostat

- ✓ ✗ 🔧 17.1 Function
- ✓ ✗ 🔧 17.2 Opening temperature

18. Coolant pump

- ✓ ✗ 🔧 18.1 Tightness
- ✓ ✗ 🔧 18.2 Noise development

19. Heater

- ✓ ✗ 🔧 19.1 Heating hoses and clamps
- ✓ ✗ 🔧 19.2 Heating valves

20. Sensors

- ✓ ✗ 🔧 20.1 Electrical connection
- ✓ ✗ 🔧 20.2 Function

21. Evaporator

- ✓ ✗ 🔧 21.1 Tightness
- ✓ ✗ 🔧 21.2 Electrical connection
- ✓ ✗ 🔧 21.3 Condensation drain

22. Expansion valve/throttle valve

- ✓ ✗ 🔧 22.1 Tightness
- ✓ ✗ 🔧 22.2 Connections

Notes

Date

Mechanic/foreman

Stamp



HERTH+BUSS MOBILITY SOLUTIONS

CONCENTRATED
TECHNICAL
KNOW-HOW

Even the best experts in the workshop sometimes reach their limits. With our tutorials, our Workshop-Buddies share their expertise with you, introduce you to our problem solvers and help to make your daily work as easy and efficient as possible. Of course, practical tips and tricks are also included. Subscribe our channel and never miss another tutorial!

Your Herth+Buss partner:

Herth+Buss Mobility Solutions GmbH & Co. KG
Dieselstraße 2-4
DE-63150 Heusenstamm

Herth+Buss France SAS
ZA Portes du Vercors, 270 Rue Col de La Chau
FR-26300 Châteauneuf-sur-Isère

Herth+Buss Belgium SRL
Rue de Fisine 9
BE-5590 Achène

Herth+Buss UK Ltd.
Unit 1 Dreadnought Business Park
GB-DY5 4TP Brierley Hill

Herth+Buss Iberica S.L.
C/ Altutzate, 44 (Poligono de Areta)
ES-31620 Huarte Navarra



Brosch151EN | 04-2026

