IT SIMPLY WORKS.



AC SERVICE

A/C stations 2018



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STAY COOL – WITH OUR WIDE RANGE OF A/C STATIONS.

R134A SERIES // MULTIGAS SERIES // 1234 SERIES

BRAIN BEE is a leading trademark of A/C stations. Our focus is on designing and developing innovative solutions and offering robust A/C stations that perform their work independently and without problem, making everyday work easier in any vehicle workshop.

Key features of our A/C stations:

- Patented LONG LIFE PUMP[®] with automatic recycling process
- + SUPER CHARGE system guaranteed 100 % system charging,
- regardless of the ambient temperature or engine temperature
- Patented ECO LOCK[®] quick couplers prevent gas from escaping
- + Automatic leak testing of connection seals
- + Comprehensive database of vehicle models, easy updates via USB stick
- Approved by the Daimler Group (cars), Opel, GM and Toyota, plus VDA German Association of the automotive Industry compliant approval

// STATION AND REFRIGERANT CROSS-REFERENCE



// OUR INNOVATIVE TECHNOLOGIES AT A GLANCE



AIR PURGE SYSTEM:

Automatic monitoring of non-condensing gas: special software ensures that the purging of noncondensing gas is only recommended when actually necessary. This way, you can decide for yourself whether you wish to carry out this procedure, and always stay in complete control of the station.



AGRI & WORK:

Our AC stations are equipped with the special AGRI & WORK feature, making them the perfect assistant to all agricultural and construction machinery engineers. The agricultural machine database and a special multi-stage program optimise the recharging process and fine-tune it to the specific requirements of A/C units that are difficult to access using extended hoses.



HPV:

The HPV (High Precision Vacuum) reaches the required level of vacuum for the drying effect more quickly, saving energy.



N-LEAK TEST:

With the optional Nitrogen Kit, you can perform a leak test on the air conditioning system under pressure using nitrogen forming gas. The station software is prepared for this option as standard.



ECO LOCK®:

ECO LOCK® is a patented feature that enables you to reduce the quantities of gas, ensuring your safety and greatly helping to protect the environment. The A/C station separates the air that normally gets into the refrigerant in the tank when it is connected to the vehicle. It then tests the vehicle connections for leaks before the end of the air conditioning service.



SUPER CHARGE:

In all ambient conditions, the station is 100 % guaranteed to charge the system with the programmed quantity, irrespective of the temperature of the environment or engine – always at a constant speed and with clear energy savings.



LONG LIFE PUMP®:

The special LONG LIFE PUMP® feature extends the average life of the pump oil used in the station to up to 1,000 hours.



OIL CLEAN:

The exclusive OIL CLEAN feature ensures that less refrigerant is needed to eliminate the old oil. What's more, every day, from the first service to the last, exactly the right amount of oil is put in.

Special features:

- + R1234yf gas identifier (optional)
- + Multipass
- + Flushing (optional kit required)
- + Nitrogen leak test (optional kit required)
- Hybrid feature (optional kit required), prevents the different oils to be put in the vehicle from mixing

Available for some models.

- OIL CARE SYSTEM (fresh oil and fluorescent dye tanks protected against humidity)
- + Addition of fluorescent dye
- + **Automatic purging** of non-condensing gas in the reservoir increases refrigerant purity

// AC-6000 PLUS

With the AC-6000 PLUS, your workshop can advance to the highest technological level in air conditioning servicing without major investment, while also guaranteeing maximum protection for the environment. Seize this competitive advantage and get ahead of the competition!

This station incorporates all the technical finesse of our large BRAIN BEE AC stations. It is also compact, mobile and sturdy. Using the AC-6000 PLUS is simple and intuitive, making it a perfect second unit or an ideal mobile solution.

The AC-6000 PLUS with optional AGRI & WORK is the perfect assistant to every agricultural and construction machinery engineer. The agricultural machine database and a special multi-stage program optimise the recharging process and fine-tune it to the specific requirements of AC units that are difficult to access using extended hoses.





Key features:

- Multipass +
- Flushing⁽¹⁾ +
- Nitrogen leak test⁽¹⁾ +
- + Hybrid function⁽¹⁾
- + OIL CARE
- Autom. purging of non-condensing gas +
- Made by MAHLE +

Technical data:

- Dimensions: 532 x 617 x 957 mm (L x W x H) +
- Weight: 65 kg +
- Reservoir capacity: 12 l +
- Printer: optional +

⁽¹⁾ Optional kit required

// AC-6000 ECO 1234

The AC-6000 ECO 1234 has been developed to deliver optimum service conditions where space is limited or for servicing on the go. Its low weight of 65 kg, superior manoeuvrability and modern ergonomic design enable air conditioning servicing to be performed anywhere and in the best conditions.

The Easy Service design is a fundamental element of our development strategy, and allows you to perform all service tasks as easier as possible. For example, all solenoid valves are on a single valve block, not distributed all over the unit.

Also note that the mechanical control valves (taps) have been replaced by selfregulating valves in the unit, ensuring simpler and easier use. You would normally only find this in equipment with a higher price tag.

Ready for connection of the BRAIN BEE gas identifier.



R1234yf Key features: Gas identifier⁽¹⁾ + Multipass resolution + + Flushing⁽¹⁾ + Nitrogen leak test⁽¹⁾ + Hybrid function⁽¹⁾ + OIL CARE Autom. purging of non-condensing gas + Made by MAHLE + Technical data: Dimensions: 532 x 617 x 957 mm (L x W x H) + Weight: 65 kg + Reservoir capacity: 12 l + Printer: optional + BrainBee ⁽¹⁾ Optional kit required

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// AC-8500 MULTIGAS PLUS

The AC-8500 MULTIGAS PLUS station allows you to choose to work with either refrigerant R134a or R1234yf (conversion kit required).

The AC-8500 MULTIGAS PLUS is the perfect tool for any mechanic who wants to work with as little electronics as possible and yet be extremely effective and have all the functions. The Easy Service design makes servicing and repairs simple and efficient. The charging hoses can also be replaced without having to open up the unit. The AC-8500 MULTIGAS PLUS also features a database of vehicle models for R134a or R1234yf.

The AC-8500 MULTIGAS PLUS can be updated with the greatest of ease via a USB stick, and data on all services performed can be electronically transferred.

Ready for connection of the BRAIN BEE gas identifier.





// AC-8500 1234 PLUS

The AC-8500 1234 PLUS station is the perfect tool for any professionals who want to work very easily and completely automatically, but with extremely effective and complete functions.

The AC-8500 1234 PLUS has a customer and vehicle model (Autodata) database. This database indicates the charge quantities of the air conditioning system, and the types of oil to be used. The Database can be upgraded by a USB stick through PC download, enabling seamless refrigerant/service management.



TÜV approved and certified. Ready for connection of the BRAIN BEE gas identifier.



// AC-9000 BUS PLUS

Our special station for air conditioning systems with a large filling volume: superior performance and outstanding technical characteristics for servicing buses, trains and other vehicles with a capacity from 10 to 15 kg.

The tank volume of 40 l (the maximum for BRAIN BEE range) and the 1,000 ml OIL CARE container for new and used oil enable easy handling and the fully automated charging of all types of system.

The AC-9000 BUS PLUS has a vehicle model (Autodata) and customer database. This database indicates the charge quantities of the air conditioning system, and the types of oil used. The Database can be upgraded by a USB stick through PC download, enabling seamless refrigerant/service management.





// AC-9000 MULTIGAS PLUS

The AC-9000 MULTIGAS PLUS was designed for the fully automated servicing of large air conditioning systems. The aim of this development was to ensure efficient work and comprehensive cost control during A/C servicing and repairs. The AC-9000 MULTIGAS PLUS station allows you to choose to work with either refrigerant R134a or R1234yf (conversion kit required).

A high-quality, reliable and high-contrast display with touchscreen is the basis of all operation, enabling user navigation with images and displaying the necessary information.

The Easy Service design is a fundamental element of our development strategy, and allows you to perform all service tasks as easier as possible. For example, the charging hoses can also be replaced without having to open up the unit.

Ready for connection of the BRAIN BEE gas identifier.



R134a R1234yf Key features: Interface with Gas identifier⁽¹⁾ + integrated analogue Multipass + + Flushing(⁽¹⁾ Nitrogen leak test⁽¹⁾ + + Hybrid function⁽¹⁾ + OIL CARE Addition of fluorescent dye + Autom. purging of non-condensing gas + Made by MAHLE + **Technical data:** Dimensions: 673 x 738 x 1,198 mm (L x W x H) + Weight: 100 kg + + Reservoir capacity: 26 l Printer: integrated + ⁽¹⁾ Optional kit required

// AC-9000D 1234

With its array of special features, the AC-9000D 1234 is the Daimler Group's choice and is recommended to all service networks of that brand (Mercedes-Benz, Smart, Maybach).

The AC-9000D 1234 is fully automated and offers all Brain Bee's top features in a user-friendly station, with user guidance via the touchscreen of the station display.

The compact 12 l tank, according to Daimler directives, was designed to ensure maximum containment of the gas in the station, therefore reducing costs. Although it is integrated in the station, the gas identifier is an external module. This can be cleaned of impurities quickly and easily without having to remove internal station components. The station is ready to go in seconds flat. The AC-9000D 1234 is equipped with ECO LOCK® couplers, which are essential for the prevention of highly unprofitable leakage when using R1234yf gas.





// AC-1234 HO

VDA German Association of the automotive Industry compliant approval for R1234yf.

The station is ready for the connection of the gas identifier. An ample tank and the vacuum pump ensure a generous capacity and excellent vacuum. The patented Injection charging system guarantees a degree of accuracy far in excess of the standard requirements.





// TECHNICAL DATA

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N-LEAK TEST - leak test with nitrogen✓ (optional)✓ (optional)LONG LIFE PUMP® (patented)✓✓Power supply230 V - 50 Hz - 800 W230 V - 50 Hz - 800 WR1234yf gas identifier–OptionalReservoir capacity12 l12 lDimensions617 x 532 x 957 mm617 x 532 x 957 mm	Automatic dispensing of fluorescent dye	-	-
LONG LIFE PUMP® (patented) Image: Constant state Image: Constant Image: Constant state	Hybrid function	🗸 (optional)	🗸 (optional)
Power supply 230 V - 50 Hz - 800 W 230 V - 50 Hz - 800 W R1234yf gas identifier - Optional Reservoir capacity 12 l 12 l Dimensions 617 x 532 x 957 mm 617 x 532 x 957 mm	N-LEAK TEST – leak test with nitrogen	🗸 (optional)	🗸 (optional)
R1234yf gas identifier–OptionalReservoir capacity12 l12 lDimensions617 x 532 x 957 mm617 x 532 x 957 mm	LONG LIFE PUMP [®] (patented)	\checkmark	\checkmark
Reservoir capacity 12 l 12 l Dimensions 617 x 532 x 957 mm 617 x 532 x 957 mm	Power supply	230 V – 50 Hz – 800 W	230 V – 50 Hz – 800 W
Dimensions 617 x 532 x 957 mm 617 x 532 x 957 mm	R1234yf gas identifier	_	Optional
	Reservoir capacity	12 l	12 l
Weight 65 kg 65 kg	Dimensions	617 x 532 x 957 mm	617 x 532 x 957 mm
	Weight	65 kg	65 kg

AC-8500 MULTIGAS PLUS // R134a // R1234yf

R134a/R1234yf



AC-8500 1234 PLUS // R1234yf

R1234yf



1(1)44/1(12)4y1	N 1 2 5 4 y 1
Monochrome graphic	Graphic, 4.3", 480 x 272 mm (widescreen), 65,536 colours, touchscreen
\checkmark	\checkmark
USB	USB
Electronic scales	Electronic scales
20 bar	20 bar
III	III
✔ R134a/R1234yf W/component graphic positioning	✔ R1234yf
250 ml – electronic scales	250 ml – electronic scales
250 ml – electronic scales	250 ml – electronic scales
Optional (hybrid kit)	Optional (hybrid kit)
250 ml	250 ml
\checkmark	\checkmark
0.02 mbar	0.02 mbar
14 cc	14 cc
\checkmark	\checkmark
45 kg	45 kg
Automatic, electronic	Automatic, electronic
4.5 m	4.5 m
Analogue double scale for R134a and R1234yf 80 mm, Cl.1	Analogue 80 mm, pulse-free, Cl. 1
\checkmark	\checkmark
🗸 (optional)	🗸 (optional)
🗸 (optional)	✔ (optional)
✓ SUPER CHARGE	✓ SUPER CHARGE
\checkmark	\checkmark
🗸 (optional)	-
\checkmark	\checkmark
🗸 (optional)	🗸 (optional)
🗸 (optional)	✔ (optional)
\checkmark	\checkmark
230 V – 50 Hz – 800 W	230 V – 50 Hz – 800 W
Optional	Optional
20 l	20 l
600 x 522 x 1,145 mm	600 x 522 x 1,145 mm
86 kg	86 kg

// TECHNICAL DATA



AC-9000

AC STATIONS

Refrigerant	R134a
Display	Graphic, 4.3", 480 x 272 mm (widescreen), 65,536 colours, touchscreen
Printer	\checkmark
Update interface	USB
Measurement	Electronic scales
Maximum operating pressure	20 bar
PED	II
Database (cars)	✓ R134a W/component graphic positioning
Old oil tank	1,000 ml – electronic scales
Fresh oil container	1,000 ml – electronic scales
Fresh oil tank (POE)	Optional (hybrid kit)
Fluorescent dye container	250 ml
Vacuum pump output	\checkmark
Vacuum level	0.05 mbar
Compressor	14 cc
Safety pressure switch	\checkmark
Filter capacity	150 kg
Purging of non-condensing gas	Automatic, electronic
Length of charging hoses	4.5 m
Pressure gauge HP and LP	Analogue 80 mm, Cl.1/digital
ECO LOCK® (patented) Flushing	✓ ✓ (optional)
VAS flushing	🗸 (optional)
Reservoir (patented heating function)	✓ SUPER CHARGE
AIR PURGE SYSTEM feature	\checkmark
AGRI & WORK	\checkmark
OIL CLEAN	\checkmark
HPV	\checkmark
Multipass	\checkmark
Automatic dispensing of fluorescent dye	\checkmark
Hybrid function	🗸 (optional)
N-LEAK TEST – leak test with nitrogen	🗸 (optional)
LONG LIFE PUMP [®] (patented)	\checkmark
Power supply	230 V – 50 Hz – 800 W
R1234yf gas identifier	-
Reservoir capacity	40 l
Dimensions	652 x 728 x 1,198 mm
Weight	120 kg

AC-9000 MULTIGAS PLUS



R134a/R1234yf

Graphic, 4.3", 480 x 272 mm (widescreen), 65,536 colours, touchscreen \checkmark USB Electronic scales 20 bar Ш ✓ R134a/R1234yf W/component graphic positioning 250 ml – electronic scales 250 ml – electronic scales Optional (hybrid kit) 250 ml – electronic scales \checkmark 0.02 mbar 14 cc \checkmark 45 kg Automatic, electronic 4.5 m

Analogue double scale for R134a and R1234yf 80 mm, Cl.1/digital

\checkmark	
🗸 (optional)	
🗸 (optional)	
✓ SUPER CHARGE	
\checkmark	
🗸 (optional)	
\checkmark	
\checkmark	
\checkmark	
\checkmark	
🗸 (optional)	
🗸 (optional)	
\checkmark	
230 V - 50 Hz - 800 W	
Optional	
26 l	
673 x 738 x 1,198 mm	
100 kg	

A	
AC-9000D 1234	AC-1234 HO
// R1234yf	// R1234yf
R1234yf	R1234yf
Graphic, 4.3", 480 x 272 mm (widescreen),	Graphic, 4.3", 480 x 272 mm (widescreen),
65,536 colours, touchscreen	65,536 colours, touchscreen
\checkmark	\checkmark
USB	USB
Electronic scales	Electronic scales
20 bar	20 bar
III	III
✓ R1234yf	✓ R1234yf (optional)
250 ml – electronic scales	250 ml – electronic scales
250 ml – electronic scales	250 ml – electronic scales
Optional (hybrid kit)	Optional (hybrid kit)
250 ml – electronic scales	250 ml – electronic scales
\checkmark	\checkmark
0.02 mbar	0.02 mbar
14 cc	14 cc high-performance
\checkmark	\checkmark
45 kg	150 kg – complies with all VDA specifications
Automatic, electronic	Automatic, electronic
3 m	3 m – complies with all VDA specifications
Analogue 80 mm, Cl.1	Analogue 80 mm, pulse-free, Cl. 1
\checkmark	\checkmark
🗸 (optional)	✔ (optional)
🗸 (optional)	✓ (optional)
✓ SUPER CHARGE	✓ SUPER CHARGE
\checkmark	\checkmark
-	-
\checkmark	-
\checkmark	-
\checkmark	\checkmark
\checkmark	\checkmark
✔ (optional)	✓ (optional)
✔ (optional)	✓ (optional)
\checkmark	\checkmark
230 V AC – 50 Hz	230 V – 50/60 Hz – 800 W
\checkmark	\checkmark
12 L	12 l
670 x 740 x 1,200 mm	673 x 738 x 1,198 mm
95 kg	100 kg

// WARRANTY LINE - ACCESSORIES FOR YOUR A/C STATIONS

BRAIN BEE's service does not come to an end once you have bought our equipment. Our WARRANTY LINE, which was specially developed to keep things running smoothly at the workshop, includes all the products and accessories you will need for air conditioning and cooling systems. WARRANTY LINE products have been developed for intensive professional use in our stations, but also bring out the best in other devices that are available on the market.

CODE	DESCRIPTION
1010350038Xx	PAG Oil ISO 46 250 ml
1010350039Xx	PAG Oil ISO 100 250 ml
1010350040Xx	PAG Oil ISO 150 250 ml
1010350279Xx	POE Oil 80 Hybrid
1010350283Xx	PAG Oil 46 HFO 1234yf 250 ml
1010350284Xx	PAG 0il 100 HF0 1234yf 250 ml
1010350041Xx	Fluorescent Dye 250 ml
1010350281Xx	Fluorescent Dye Hybrid 250 ml
1010350285Xx	Fluorescent Dye Hybrid In Syringe 7.5 ml + Hose
1010350282Xx	Fluorescent Dye HFO 1234yf 250 Ml
1010350286Xx	Fluorescent Dye HFO 1234yf In Syringe 7.5 ml + Hose
1010350287Xx	Fluorescent Dye Remover Trigger 250 ml
1010350046Xx	AC System Sanitary Spray 400 ml
1010350047Xx	Cabin Sanitary Agent 200 ml
1010350048Xx	Condenser Cleaner 400 ml
1010350280Xx	Valves Kit
1010350289Xx	Expert Kit
1010350033Xx	UV Kit
1010350130Xx	Nitrogen Leak Test Kit
1010350262Xx	Nitrogen Leak Test 134 To 1234 Kit
1010350288Xx	Nitrogen/Hydrogen Leak Detector Kit
1010350296Xx	Nitrogen/Hydrogen Cylinder 1 l
1010350053Xx	Flushing Kit
1010350150Xx	VAS Flushing Kit
1010350198Xx	Flushing Kit 1234 M Series
1010350129Xx	Hybrid Pro Kit
1010350034Xx	Dryer Filter
1010350096Xx	Dryer Filter – 6000 Line
1010350097Xx	Dryer Filter – Bus Line
1010350037Xx	Vacuum Pump Oil 500 ml
1010350255Xx	Warranty Extension Kit 6000
1010350256Xx	Warranty Extension Kit 8250-8500-9000 Plus
1010350257Xx	Warranty Extension Kit 9000 Bus
1010350128Xx	Clima Printer Kit
1010350146Xx	Gas Identifier 1234M VDA
1010350104Xx	Gas Identifier 1234Ho VDA
1010350241Xx	Multigas 134 To 1234 Kit (My2015)
1010350107Xx	Hose Extension Kit 4.5M (HP – LP) for Gas R134a
1010350113Xx	ECO LOCK® Upgrade Kit (R134a)
1010350250Xx	Card Clima Solution
-	AGRI & WORK

VAS WARRANTY LINE Flushing Kit:

Accessory kit for flushing systems and components. Conforms to the requirements of German automakers. The 6-litre tank and the hose set with 3/8" SAE connections are a guarantee of maximum efficiency. The VAS flushing tool is additionally equipped with a glass filter, which enables visual monitoring to optimise servicing.

VAS FLUSHING KIT: TECHNICAL DATA	
Tank capacity	6 l
Max. operating pressure (Ps)	20 bar
Pressure equipment class (Dir.97/23/CE)	II
Glass filter	
Length of hose	2 x 1.5 m



OIL CARE SYSTEM

WHY IT IS IMPORTANT:

Oil is hygroscopic and if it absorbs humidity, electric conductivity increases, which is very dangerous for hybrid and electric vehicles. One of the objectives of the maintenance service is to dehumidify the system, therefore using "damp" oil would make no sense

OIL CARE SYSTEM:

The "OIL CARE SYSTEM" consists of a special Cork filld with material that separate humidity from air during oil suction phase – this way it avoids the humidy contaminate the oil (air is completely dry.

WARRANTY LINE Gas Identifier:

Before servicing air conditioning systems, the optional external gas identifier can be used to identify the refrigerant, in order to avoid any problem or damage The gas identifier is used before the hoses of the A/C station are connected to the vehicle's air conditioning system. Only the correct sequence during use ensures that the gas in the vehicle is correctly identified. In the case of R1234yf not sufficiently pure, the recharge service is not recommended.

GAS IDENTIFIER TECHNICAL DATA	6000/8500/9000 LINES	SPECIFIC FOR 9000D 1234
Power	2 V @0.8 A max	2 V @0.8 A max
ldentification threshold	≥ 95 %	≥ 92 %
Identification method	Pass/fail	Pass/fail
Capillary hose connection	1.5 m	1.5 m
Connection	USB	USB



IT SIMPLY WORKS.



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