BAC 4000a – BAC 5000yf
AC Service Units
Recommended by Volvo Cars

- Fully-automatic, high capacity and comfortable
- Maximum safety
- Easy to use
BAC 4000a
Maximum precision – easy operation.

The new fully-automatic Beissbarth AC service unit recovers, recycles and refills R134a refrigerant. Serves standard, hybrid and fully electric vehicle systems.

Fully-automatic:
- Recovery function
- Vacuum function
- Leak test
- Air purge function
- Clean oil injection (separate bottles for PAG and POE oil)
- UV dye injection
- Refrigerant charge function

Additionally included:
- Hose clearing function
- Internal air flow control
- Windows Embedded CE
- Flushing function (optional flushing kit)
- Integrated printer for detailed reports

As an alternative to fully automatic all steps can be selected individually for a manual controlled sequence.

Fully-automatic, high-capacity and comfortable:
The AC service unit manages automatically all maintenance steps including recovering, vacuuming and charging of oil and refrigerant automatically. The 5.7 inch colour display and the large high and low pressure gauges keep the operator up to date during the complete procedure.
- Fully-automatic – no manually operated valves
- Powerful compressor with a capacity of 500 g/min
- Extra large dryer filter cartridge of 700cc
- 21 languages
- Visual and acoustic signals in case of error messages and upon completion

Deep Recovery Function – total recovery saves costs and protects the environment:
The intelligent electronic control of refrigerant weight, pressure and temperature guarantees a minimum of refrigerant waste at the service process.
- The unit complies with SAE J2788 Standard
- Maximum accuracy during recovery and flushing is based on ±15 gram
- 99% of the refrigerant is evacuated from vehicle and hoses
- Double-stage vacuum pump with delivery volume of 170 l/min

Quality standard guarantee an unlimited AC service:
- Automatic air purge and cleaning of non condensable gases
- Shock resistant refrigerant scale for precise determining of refrigerant volume, resolution of 5 g
- Vacuum time programmable

Automatic Oil Management:
- 2 separate lubrication circuits for PAG and POE oil to also service hybrid vehicles
- Separate injection of UV dye and lubricants
- 4 separate operating electronic scales for used and clean oil bottles, as well as UV-dye
- Hermetically closed oil bottles prevent any contamination with moisture and dust

Scope of Delivery:
- Fully-automatic AC service unit for R134a
- High/low pressure hoses (2.5 m)
- Quick couplers (SAE J2196)
- 3 oil bottles
- 1 UV dye bottle
- Calibration weight to check oil and refrigerant scale
- Multi language user manual
- Quick start reference
- Thermal paper for printer
- Safety kit: safety goggles and gloves
- Protective dust hood

SPECIAL ACCESSORY BAC 4000a:
Flushing kit SP00.101.176

ORDER NUMBER:
BAC 4000a SP00.000.078
BAC 5000yf
Integrated refrigerant identifier.

Fully automatic service unit:
- Recovery function
- Vacuum function
- Leak test
- Purging of non condensable gases
- Clean oil injection (separate bottles for PAG and POE oil) with electronic scale
- UV dye injection with electronic scale
- Refrigerant level check automatically activates the tank refill program after plugging in the new bottle

Additional features:
- Hose clearing function
- Oil purge function with electronic scale
- Internal air flow control
- Software Windows Embedded CE
- Flushing function (optional flushing kit)

As an alternative to fully automatic all steps can be selected individually for a manual controlled sequence.

Safe, climate change friendly, efficient.
New standard to service R1234yf.

Maximum Safety:
- Certified by TÜV Rheinland
- All hoses and connection elements comply with SAE J2888 and are certified by independent institutions
- Designed to eliminate any inflammation by potential electric sources
- Service couplings with dead space ventilation ensure that no refrigerant will leak

Easy to use:
- Automatic program flow with visual and acoustic signals in case of error messages and upon completion
- Large 5.7 inch colour display with 21 languages available
- High and low pressure gauges with 100 mm diameter easily readable
- Plastic film keyboard
- Automatic UV dye injection
- Automatic oil management with very accurate injection of PAG- and POE-oils by separate lubrication circuits
- Designed for minimum maintenance and maximum serviceability
- Vacuum pump oil and internal filter are easy to replace
- Oil/dye injection bottles are easily accessible and are suspended with magnetic connectors
- Refrigerant level check automatically activates the tank refill program after plugging in the new bottle

Top Quality:
- The unit complies with SAE J2843 Standard
- Precision rate of ±15 gram for filling and recovering functions achieved by integrated pressure and temperature control of refrigerant
- 2 separate lubrication circuits prevent a cross contamination of PAG and POE oil
- Separate injection of UV dye and lubricants
- Hermetically closed oil and UV-dye bottles ensure moisture free and clean storage
- Automatic internal connections and service hose clearing
- Auto-test during start procedure

Efficiency in comparison to standard units:
- Service time can be reduced by 20 minutes thanks to the unique “deep recovery” function (double-stage vacuum pump with high performance and a delivery volume of 170 l/min)
- 10 % more refrigerant recovery from AC system of vehicle
- 80 % better recycling minimizing loss of refrigerant

Scope of Delivery:
- Fully-automatic AC service unit for R1234yf
- Integrated refrigerant identifier
- High/low pressure hoses (2.5 m)
- Quick couplers (SAE J2888)
- 3 oil bottles
- 1 UV dye bottle
- Calibration weight to check oil and refrigerant scale
- Multi language user manual
- Quick start reference
- Thermal paper for printer
- Safety: protective goggles and gloves
- Protective dust hood

ORDER NUMBER:
BAC 5000yf \hspace{1cm} SP00.000.077
Specific information

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
<th>BAC 4000a</th>
<th>BAC 5000yf</th>
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<tbody>
<tr>
<td>Refrigerant</td>
<td>R134a</td>
<td>R1234yf</td>
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<tr>
<td>Display</td>
<td>5,7 inch TFT, 320 x 240 Pixel VGA color display</td>
<td>5,7 inch TFT, 320 x 240 Pixel VGA colour display</td>
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<tr>
<td>Keypad</td>
<td>Alphanumeric with function keys</td>
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<td>Manometers</td>
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<td>Manual valves</td>
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<td>Couplings</td>
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<td>Printer</td>
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<td>USB port</td>
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<td>SD card slot</td>
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<tr>
<td>Hermetic compressor</td>
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<td>3/8 HP</td>
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<tr>
<td>Vacuum pump</td>
<td>170 l/min (50 Hz)</td>
<td>170 l/min (50 Hz)</td>
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<td></td>
<td>198 l/min (60 Hz)</td>
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<tr>
<td>Internal storage vessel</td>
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<td>9.09 kg</td>
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<td>Filter for dryer</td>
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<td>700 cc</td>
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<td>Oil bottles</td>
<td>3x 250 ml</td>
<td>3x 250 ml</td>
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<td>UV dye bottle</td>
<td>1x 250 ml</td>
<td>1x 250 ml</td>
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<tr>
<td>Dimensions</td>
<td>107 x 61 x 76 cm</td>
<td>107 x 61 x 76 cm</td>
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<td>Weight</td>
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<td>230 V, 50/60 Hz</td>
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<td>Certificates</td>
<td>CE, TÜV Rheinland</td>
<td>CE, TÜV Rheinland</td>
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</table>

**THE BAC 5000yf SAFETY PACKAGE:**

**Integrated refrigerant identifier**
Preventing contamination of the service station if vehicle contains unclean refrigerant

**Automatic monitoring of the gas concentration inside the service unit**
- Automatic air ventilation is controlled by electronic flow meter, which checks the unit with known limits to keep the gas concentrations below the inflammable level
- Regular leakage check by performing vacuum and pressure test with automatic power switch off in case of leak

**Safety mode for maintenance**
- Electric functions are automatically switched off
- Automatic leak detection when changing filter and vacuum pump oil

German inspection authority TÜV Rheinland released the unit according to the German automotive industry association and the European Pressure Equipment Directive (PED, 97/23/EC) regarding safety, reliability and efficiency.
Beissbarth Service worldwide.

Service from Beissbarth Munich:
- Fast telephone support
- Prompt spare parts deliveries
- Personal maintenance contracts

Factory customer service:
Beissbarth and authorised partners provide on site assistance with installation, personnel instruction, equipment assembly and maintenance – all over the world with partners in more than 90 countries.

Training centre:
Instruction and training at the Robert Bosch GmbH STC, 73207 Plochingen

Software centre:
Technical documentation, vehicle specified data and marketing material for immediate download: www.beissbarth.com

Please note: We make every effort to ensure our product information is accurate and up-to-date. We nevertheless reserve the general right to make changes to technical data, colours and equipment at any time. Certain illustrations may contain optional special accessories. For a binding quotation please contact our authorised dealers directly at www.beissbarth.com.