AC Service Units
for R134a and R1234yf refrigerant

• Fully automatic
• Premium accuracy
• Maximum safety
Beissbarth BAC 4000a and BAC 5000yf
Premium AC service units

**Fully-automatic:**
- Recovery function
- Vacuum function
- Leak test
- Purging of non-condensable gases
- Clean oil injection (separate bottles for PAG and POE oil)
- UV dye injection with electronic scale
- Refrigerant charge function

**Top Quality:**
- 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

**Additional features:**
- Hose clearing function
- LAN connection for workshop network connectivity
- Oil purge function with electronic scale
- Internal airflow control
- Software Windows Embedded CE
- Flushing function (optional flushing kit)
- Integrated printer for detailed reports

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**BAC 4000a**
- Refrigerant R134a
- Complies with SAE J2788 Standard

**BAC 5000yf**
- Refrigerant R1234yf
- Complies with SAE J2843 Standard
- With integrated refrigerant identifier

**Scope of delivery:**
- Fully-automatic AC service unit
- High/low pressure hoses (2.5 m)
- Quick couplers (SAE J2196 for R134a) or (SAE J2888 for R1234yf)
- 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

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**ORDER NUMBER:**
- BAC 4000a SP00.000.078-FY4
- BAC 5000yf SP00.000.077-FY4
- Flushing kit SP00.101.176
High and low pressure gauges

Large 5.7 inch colour display with plastic film keyboard

Injection of oil or UV dye, separate oil circuit (for hybrid and fully electric vehicle systems)

Integrated printer

Unit with mounted flushing kit

BAC 5000yf and BAC 4000a
Beissbarth BAC 3000a and BAC 3000yf
Smart AC service units

**Fully-automatic:**
- Recovery function
- Vacuum function
- Leak test
- Purging of non condensable gases
- Oil injection
- Refrigerant charge function

**Top Quality:**
- Heavy-Duty materials
- Ergonomic design

**Additional features:**
- Hose clearing function
- Internal air flow control
- Flushing function (optional flushing kit)
- Integrated printer for detailed reports

**BAC 3000a**
- Refrigerant R134a

**BAC 3000yf**
- Refrigerant R1234yf

**Scope of delivery:**
- Fully-automatic AC service unit
- High/low pressure hoses (2.5 m)
- Quick couplers (SAE J2196 for R134a) or (SAE J2888 for R1234yf)
- 2 oil bottles
- Calibration weight to check oil and refrigerant scale
- Multi language user manual
- Thermal paper for printer
- Safety kit: safety goggles and gloves

**ORDER NUMBER:**

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<thead>
<tr>
<th>BAC 3000a</th>
<th>SP00.000.095-FY4</th>
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<tbody>
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<td>BAC 3000yf</td>
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**ORDER NUMBER:**

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<th>SP00.101.176</th>
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**ORDER NUMBER:**

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<th>BAC 3000yf</th>
<th>SP00.000.094-FY4</th>
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### Specific information

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
<th>BAC 4000a</th>
<th>BAC 5000yf</th>
<th>BAC 3000a</th>
<th>BAC 3000yf</th>
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</thead>
<tbody>
<tr>
<td>Refrigerant</td>
<td>R134a</td>
<td>R1234yf</td>
<td>R134a</td>
<td>R1234yf</td>
</tr>
<tr>
<td>Refrigerant identifier</td>
<td>No</td>
<td>Integrated</td>
<td>No</td>
<td>Optional</td>
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<tr>
<td>Recovery accuracy/performance</td>
<td>15 gr, 99 %</td>
<td>≤ 95 %</td>
<td></td>
<td></td>
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<tr>
<td>Display</td>
<td>5.7 inch TFT, 320 x 240 pixel</td>
<td>160 x 120 Monocromatic</td>
<td></td>
<td></td>
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<tr>
<td>Keypad</td>
<td>Alphanumeric with function keys</td>
<td>Alphanumeric with function keys</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manometers</td>
<td>EN837-1; 100 mm</td>
<td>EN837-1; 68 mm</td>
<td></td>
<td></td>
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<tr>
<td>Manual valves</td>
<td>No</td>
<td>Yes, 2</td>
<td></td>
<td></td>
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<tr>
<td>Service hoses</td>
<td>2.50 m</td>
<td>2.50 m</td>
<td></td>
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</tr>
<tr>
<td>Couplings</td>
<td>SAE J2196</td>
<td>SAE J2888</td>
<td>SAE J2196</td>
<td>SAE J2888</td>
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<tr>
<td>Hybrid a/c system compatibility (hoses flush, POE/PAG)</td>
<td>Yes, hoses flush and POE/PAG oil injection</td>
<td>Yes, hose flush</td>
<td></td>
<td></td>
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<tr>
<td>Printer</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
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<tr>
<td>USB port</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
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<tr>
<td>SD card slot</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hermetic compressor</td>
<td>3/8 HP</td>
<td>1/4 HP</td>
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<tr>
<td>Vacuum pump</td>
<td>170 l/min (50 Hz)</td>
<td>198 l/min (60 Hz)</td>
<td>71 l/min</td>
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<tr>
<td>Internal storage vessel</td>
<td>9.09 kg</td>
<td>8 kg</td>
<td></td>
<td></td>
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<tr>
<td>Filter for dryer</td>
<td>700 cc</td>
<td>300 cc</td>
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</tr>
<tr>
<td>Oil bottles</td>
<td>3x 250 ml</td>
<td>2x 250 ml</td>
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<tr>
<td>UV dye bottle</td>
<td>1x 250 ml</td>
<td>no UV dye injection</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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<tr>
<td>Weight</td>
<td>107 kg</td>
<td>107 kg</td>
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<td>Voltage supply</td>
<td>230 V, 50/60 Hz</td>
<td>230 V, 50/60 Hz</td>
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<td>Certificates</td>
<td>CE, TÜV Rheinland</td>
<td>CE</td>
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**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.
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.