

**A/C Workshop Equipment**

# AirCon Service Center for BMW

R 134a and R 1234yf



**Robust,  
durable  
workshop equipment**





## The Low Emission technology

Environmentally friendly and economical

### New technology for use of refrigerants

Close to 100% refrigerant recovery: the low-emission service units **BMW 2500** and **BMW 5000** integrate all refrigerant bearing components on the weighing platform. The refrigerant contained in refrigerator oil, which is forced out using a patented process from the pressure-tight used oil container, is also included in the weighing. During the vacuum phase the residual amount of refrigerant is returned to the tank. As all of the refrigerant contained in the system

is included in the weighing, the recovered amount of refrigerant can be determined precisely to the gram – and recharged precisely to the gram, too! Accurate charging amounts are crucial for the cooling performance of modern-day vehicle A/C systems. And by the way, saving refrigerant also means saving money – and the environment as well.

### Payback period calculation – Low Emission pays back!

Basis: average charging amount: 600 g, average market price for R1234yf refrigerant: 179.00 € / kg

#### Conventional competitor's unit

25 g refrigerant loss during used oil purging:	4.48 €
95% discharging of the A/C system (5% loss):	5.37 €
Cost of refrigerant loss per service run:	9.85 €
Annual cost of refrigerant loss based on 3 service runs per week:	- 1,536.60 €

#### versus Low Emission

0 g refrigerant during used oil purging:	0.00 €
99.9% discharging of the A/C system (1% loss via service coupler):	0.11 €
Cost of refrigerant loss per service run:	0.11 €
Annual cost of refrigerant loss based on 3 service runs per week:	- 17.16 €

**Saving after 8 years** (based on 3 service runs per week): **+12,155.52 €**

## BMW 2500 Low Emission – 81 34 2 286 807

R 134a

- **Integrated Low Emission technology**
- **Charging cylinder storage capacity: 16 kg**
- **Patented feeding system for fresh oil and UV additive**
- **Print-out of important service data, several print-outs possible**
- Fully automatic refrigerant recycling, oil and additive management
- Automatic vacuum check
- Automatic charging of leak detection additive
- **Integrated refrigerant charging and recovery amount management**
- Integrated charging amount database
- **Close to 100% refrigerant recovery**
- **Virtually 0% service emission thanks to patented used oil container**
- Heated charging cylinder for high-speed charging, heat-up also possible during the charging process
- **Special, 8-bearing weighing platform**
- Special air conditioner flush function
- USB interface and Soft graphic display
- **BMW specific software**

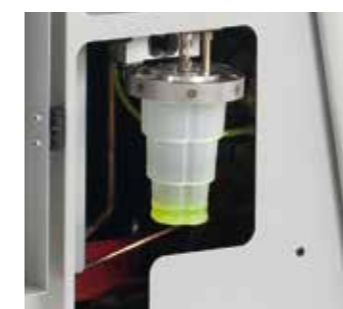
**Scope of delivery:** BMW 2500 A/C service unit, dust cover

SAE J 2099 / SAE J 2788



The BMW 2500 Low Emission integrates all refrigerant bearing components on the weighing platform. That means the complete amount of refrigerant contained in the unit can be recorded and the amount of the recovered refrigerant can be exactly determined. This in turn will tell the operator about potential leaks in the A/C system. The accurate diagnosis function of the BMW 2500 is also very useful with regard to decreasing refrigerant charging amounts on modern-

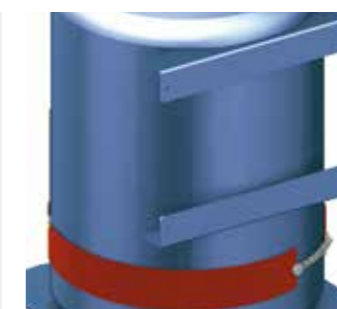
day vehicles. In the compact car segment we already see models with charging amounts of less than 300 g. Older A/C service units won't be able to charge these systems with the required accuracy. Excessive or insufficient charging, though, would entail major problems.



Patented used oil container



Option: Flush container for automotive A/C



Heating tape



Data printer and USB port

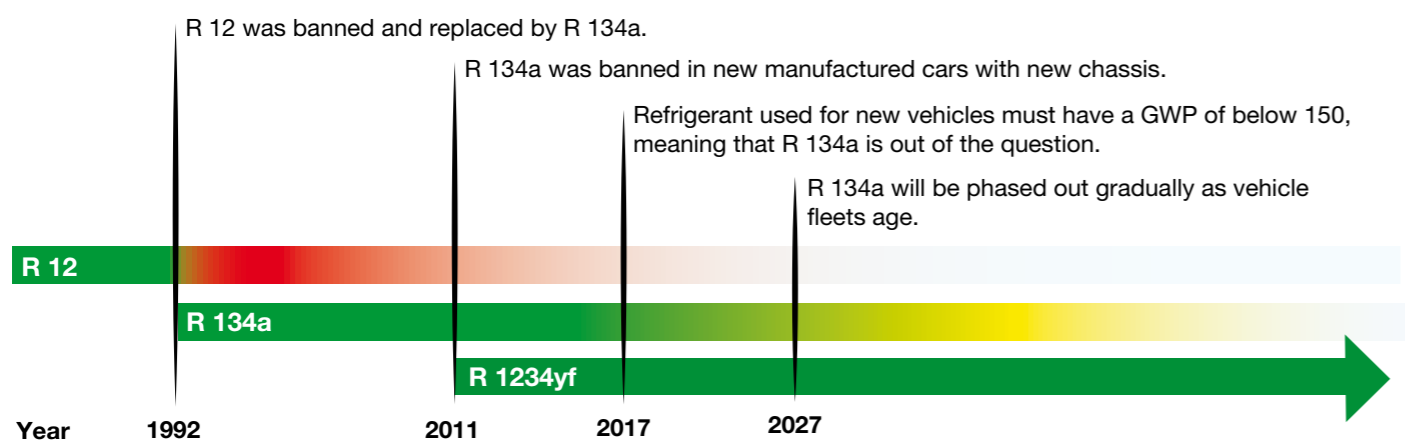




## BMW 5000 Low Emission with refrigerant purity analyser

The first new vehicle models with A/C systems prepared for the use of R 1234yf refrigerant have arrived. Brand-bound motor garages, in particular, are obliged to get prepared for servicing these systems. The TÜV-approved A/C service unit BMW 5000 from AirCon specialist WAECO is ideally suited for the purpose.

As R 1234yf is very sensitive to contamination with other refrigerants, **the BMW 5000 was fitted with an integrated analysis tool that checks the refrigerant purity.** Designed inside out for use with R 1234yf refrigerant, the unit meets all relevant safety regulations and provides many features that facilitate daily workshop routine.



## BMW 5000 Low Emission – 81 43 2 286 324

R 1234yf

- **Integrated Low Emission technology**
- **Charging cylinder storage capacity: 16 kg, max. vacuum 0.3 mbar**
- **Integrated fully automatic refrigerant analysis function**
- Fully automatic refrigerant recycling, oil and additive management
- Automatic leak check prior to service start
- Automatic charging of leak detection additive
- **Integrated refrigerant charging and recovery amount management**
- Integrated charging amount database
- Complies with SAE J 2099 and SAE J 2843
- **Close to 100% refrigerant recovery**
- **Personalised charging amount database**
- Heated charging cylinder for high-speed charging, heat-up also possible during the charging process
- **Special, 8-bearing weighing platform**
- Special air conditioner flush function
- **BMW specific software**

**Scope of delivery:** BMW 5000 A/C service unit, dust cover, adapter, used oil container, standard full-view goggles, safety gloves,

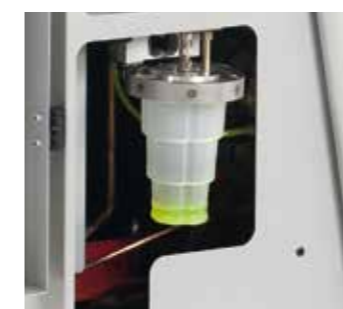


**Extra safety:** The service unit comes with integrated refrigerant analysis function.

**Eco-friendly and economical:** close to 0% refrigerant lost during service thanks to the low-emission concept.

**Automatic, regular leak check:** Service couplers with clearance ventilation prevent refrigerant leakage.

**Switch-on delay and external ventilation:** R 1234yf is inflammable under certain conditions. Therefore, the system start will only activate the external fan. After the fan has been running for 35 seconds, the voltage is passed on to the system.



Patented used oil container



Data printer and USB port



Easy-to-maintain special filter



Electronic, dual fan control



## BMW 2000 – 81 34 2 147 235

R 134a



## BMW 2000 – Complete A/C service at the touch of a button

The AirCon Service Center BMW 2000 designed by work on automotive air conditioners faster, safer and more technology leader WAECO is setting new technical profitable – with intelligent technology and amazing standards in air conditioning workshops. It makes service details.

- **Charging cylinder storage capacity: 21 kg**
- **Encoded memory card for BMW units to be used for software updates**
- **Print-out of important service data, several print-outs possible**
- **BMW-specific print-out design**
- **Patented feeding system for fresh oil and UV additive**
- **BMW-specific software for pressure check**
- **Modified weighing unit to comply with BMW-specific charging accuracy classification**
- Fully automatic refrigerant recycling, oil and additive management
- Automatic vacuum check
- Automatic or manual charging of leak detection additive
- Heated charging cylinder for high-speed charging, heat-up also possible during the charging process
- Special air conditioner flush function
- USB interface and Soft graphic display
- Special weighing technology for BMW

### Scope of delivery:

AirCon Service Center, dust cover, 500 ml TRACER® bottle, Denso oil 500 ml, 1 sales pack printer paper



### Flush container

#### To be fitted on A/C service units

Integrated into the flushing circuit to speed up the process to the required level



### TRACER® GLO-AWAY

#### Dye cleaner/remover

83 19 2 243 942 (Spray bottle 225 cm³)  
81 34 2 147 550 (Refill bottle 450 cm³)



### BMW UV leak detection kit

For leak detection on automotive air conditioners with R 134a in combination with PAG oil



81 34 0 301 361

### Vacuum pump oil

#### For service work on vacuum pumps

Supplied in 1-litre bottles



83 19 2 232 502

### TRACER® UV additive 500 ml

For BMW AirCon Service Center for approx. 71 applications when used in combination with AirCon Service Center



83 19 2 232 504

### Original Denso ND8 oil

Denso original oil for BMW  
Moisture-free and clean storage



81 34 2 147 762

### TRACER® bottle

#### For refrigeration and air conditioning systems (R 134a)

Refill bottle, sufficient for approx. 50 applications



83 19 2 243 934

### BMW service quick couple

#### Designed for fast connection to air conditioners on BMW E60 vehicles



81 34 2 153 237

### Hand pump

#### For adding leak detection additives

to the suction side of charged R 134a A/C systems



TP-9848 (Dometic WAECO ref. no.)

### Sanden SPA2, 500 ml

#### Special oil for use in R 1234yf A/C systems

R 1234yf



8887200039 (Dometic WAECO ref. no.)

### TRACER® cartridge

#### For refrigeration and air conditioning systems

For adding to the system when already charged, sufficient for approx. 14 applications



83 19 2 232 569 (sales pack: 3 pcs.)

### UV glasses



81 34 2 153 238

### Spare rolls for printer



81 34 2 147 553  
(sales pack: 4 pcs.)

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