

ACS 663 and 653:

The new standard in A/C service



The new standard in R1234yf and R134a air conditioning service units

With high-precision measuring technology and fully-automatic service, the ACS 663 and ACS 653 enable efficient service work on A/C systems in passenger cars and commercial vehicles. Complying with the highest requirements of the technically demanding US standard SAE J-2788 for air conditioning systems and meeting the appropriate European standards as well. Suitable for fully-automatic maintenance and repair work on all passenger car and commercial vehicle air conditioning systems.

Safe and efficient – for professional and economical air conditioning service

The A/C service units combine all maintenance functions in a single device. The corresponding functions are easy for users to operate and manage. During the development of these systems, maintenance-friendliness was a top priority, thereby facilitating access to internal components.

Maintenance service for hybrid and electric vehicles

Two oil injection bottles for PAG and POE lubricants and an automatic flushing function make the unit compatible for service on hybrid and electric vehicles.



Order number

ACS 663 (R1234yf): S P00 000 132

ACS 663-P (R1234yf): S P00 000 133

ACS 663-RI (R1234yf): S P00 000 134

ACS 653 (R134a): S P00 000 135

ACS 653-P (R134a): S P00 000 136

- ▶ Swiveling control panel for optimal user-friendliness (ACS 863, ACS 763, ACS 753)
- ▶ Maintenance-friendly design for easy and efficient access to the internal components of the A/C service unit
- ▶ Facilitated by the smartphone app: remote control of the A/C service unit at the touch of a button (ACS 863, ACS 763, ACS 753)
- ▶ Integrated leak test for inert gas (nitrogen, forming gas) (ACS 863, ACS 763, ACS 753)
- ▶ Deep recovery function for full evacuation of the vehicle A/C system
- ▶ Innovative oil bottle system for vehicles with combustion engines and hybrid vehicles (PAG/POE)
- ▶ Designed on the basis of user experience, these products offer the perfect combination of robustness and flexible mobile use
- ▶ Integrated database with wireless connection to Bosch Connected Repair and the ASA network (ACS 863, ACS 763, ACS 753)
- ▶ 99% recovery rate (Deep Recovery)

Specifications

ACS 863, ACS 763, ACS 753, ACS 663 and ACS 653

Model	ACS 863	ACS 763 / ACS 753	ACS 663 / ACS 653	
Refrigerant	R1234yf	R1234yf / R134a	R1234yf / R134a	
Operating mode	Fully-automatic	Fully-automatic	Fully-automatic	

Functions

Recovery function	Automatic	Automatic	Automatic	
Recovery rate	> 99%	> 99%	> 99%	
Refrigerant detection	Yes	Optional	Optional (Integrated in ACS 663-RI)	
Oil drain	Automatic, with electronic scale	Automatic, with electronic scale	Automatic, with electronic scale	
Vacuum function	Automatic	Automatic	Automatic	
Leak test	Automatic	Automatic	Automatic	
Pressure leak test	Yes	Yes	Yes	
Pressure leak test (N2/N2H2)	Yes	Yes	Optional	
Hybrid oil function	Yes	Yes	Yes	
Oil injection	PAG/POE Automatic, with electronic scale	PAG/POE Automatic, with electronic scale	PAG/POE Automatic	
UV dye injection	Automatic, with electronic scale	Automatic, with electronic scale	Automatic	
Refrigerant charge	Automatic, with electronic scale	Automatic, with electronic scale	Automatic, with electronic scale	
Flushing function	Optional	Optional	Optional	
Printer	Yes	Yes	ACS 663-P ACS 663-RI ACS 653-P	
Ventilation system	Electronic control	Electronic control	Electronic control	

Specifications

Valves, HP/LP	–	–	–	
Pressure gage, HP/LP	100 mm, pulse-free	100 mm, pulse-free	100 mm, pulse-free	
Tank pressure display	Digital	Digital	Digital	
Service hoses	2.5 m (5 m optional)	2.5 m (5 m optional)	2.5 m (5 m optional)	
Display	7" color display	7" color display	4.3" color display	
Compressor	1/4 HP	1/4 HP	1/4 HP	
Vacuum pump	170 l/min. (6 CFM)	170 l/min. (6 CFM)	170 l/min. (6 CFM)	
Refrigerant tank	19.5 kg	19.5 kg/21.5 kg	19.5 kg/21.5 kg	
Oil bottles	2 x 250 ml (hermetically-sealed)	2 x 250 ml (hermetically-sealed)	2 x 250 ml (hermetically-sealed as an option)	
Used oil bottle	1 x 250 ml	1 x 250 ml	1 x 250 ml	
UV dye bottle	1 x 250 ml (hermetically-sealed)	1 x 250 ml (hermetically-sealed)	1 x 250 ml (hermetically-sealed as an option)	
Dimensions in cm (L x W x H)	105 x 75 x 77	105 x 75 x 77	105 x 75 x 77	
Weight (with empty refrigerant tank)	112 kg	112 kg	112 kg	
Power supply	230 V 50/60 Hz	230 V 50/60 Hz	230 V 50/60 Hz	

Accessories

Vehicle database	Yes	Yes	Yes	
Programmable user database	Yes	Yes	Yes	
A/C system performance test	Yes	Yes	Yes	
Vehicle flushing adapter kit	Optional kit	Optional kit	Optional kit	
USB port	Yes	Yes	Yes	
Wi-Fi connection	Yes	Yes	Optional	
App connection	Yes	Yes	Optional	