



The ADS 310 air conditioning service device makes fast, secure and cost-effective servicing of R744 climate control systems possible.

le. This means there is less energy available to provide a bigger range. CO₂ climate control systems offer an ideal solution to this problem. In contrast to conventional systems, they can be used in almost all climatic conditions to both heat and cool. In addition, they are superior to R1234yf systems in terms of efficiency, cooling dynamics and environmental sustainability.

Climate control servicing of the future

Leading vehicle manufacturers are already using the R744 climate control systems on some production models. These systems work with pressures up to ten times higher than conventional systems. In order to carry out servicing work on CO₂ climate control systems, vehicle workshops require a special device that allows the coolant to escape in a controlled manner, fills the system with the correct amount of coolant and manages the oil levels. The ADS 310 is one of the first and only air conditioning service devices on the market that can carry out these tasks. It has been approved by all manufacturers that offer production models with R744 climate control systems. With the ADS 310, vehicle workshops and the wider industry are perfectly equipped to take on whatever challenges the future may hold. [Further information can be found here.](#)



Ready for the climate control technology of the future

CO₂ (R744) is the coolant of the future. AVL DiTEST was one of the first to recognise this and developed the innovative ADS 310 air conditioning service device together with leading vehicle manufacturers. CO₂ climate control systems will play a decisive role in the future of e-mobility. Vehicle developers are facing a significant chal-

lenge: high-voltage batteries operate best within a very narrow temperature range.

Heating and cooling efficiently

Maintaining the right temperature for the battery using conventional solutions requires a lot of energy, as does providing air conditioning for the interior of the vehic-



ADS 310



ADS 110



ADS 130



DPG 1300

Ready for any challenge

Just in time for the new air conditioning season, AVL DiTEST has restructured its range of devices for cost-effective and environmentally friendly climate control servicing. The compact ADS 110 and the convenient ADS 130 are suitable for working on conventional climate control systems. Variants of both devices for use

with R134a and R1234yf are available. If necessary, the ADS 130 can be converted from R134a to R1234yf at a later date and is therefore future-proof. For R744 climate control systems, AVL DiTEST has become one of the first workshop outfitters to offer a CO₂ service device in the shape of the ADS 310. All A/C service devices from AVL

DiTEST offer a fully automated process and a number of functions for sustainable climate control servicing. The range is completed by the DPG 1300 leak detector, which can be used for all three coolants currently in use. [More detailed information can be found here.](#)





The DPG 1300 from AVL DiTEST can be used on all current climate control systems, regardless of the coolant used.

Universal leak detector

Detecting leaks in the coolant circuit is becoming increasingly important for vehicle workshops. They are legally obliged to avoid releasing fluorinated greenhouse gases into the atmosphere. Conventional coolants are also incredibly expensive. The DPG 1300 universal leak detector from AVL DiTEST helps vehicle workshops to fulfil their legal obligations and avoid unnecessary costs. It enables climate control system professionals to safely fill the coolant circuit with forming gas after completing repairs or if a leak is suspected. If the system is losing too much pressure, the leakage points can be

identified using a separate gas detector. The DPG 1300 can be used with all current climate control systems, no matter whether they use R134a, R1234yf or R744. In addition, the intuitive device boasts high-quality fittings, hoses and quick connectors. The connections are designed to prevent mix ups. This helps to avoid damage to the climate control system and injury to the operating personnel. The DPG 1300 is now indispensable for vehicle workshops. This means dealers can now add another high-quality product to their climate control system range.

Checking for leaks and protecting the environment

Fluorinated greenhouse gases (F-gases) are harmful to the ozone layer and contribute to global climate change. For this reason, they are subject to regulation on a European and national level. F-gases include coolants whose GWP is higher than 150. In the motor vehicle sector, this applies to R134a.

In the European Union, using and putting F-gases into circulation is controlled by Regulation (EU) No 517/2014 and Directive 2006/40/EC. According to these regulations, systems that are not airtight must not be filled with F-gases. The DPG 1300 leak detector helps AVL DiTEST vehicle workshops to fulfil the legal requirements for climate control servicing and carrying out repairs to coolant circuits. This allows them to offer their customers sustainable servicing and protect the environment at the same time.



The leak test shows whether the system is airtight.

Expanded fill volume database



Filling a climate control system with the correct amount of coolant and oil is key to ensuring that it functions correctly. However, vehicle workshops are often faced with the issue that they do not have access to the required fill volumes during climate control servicing. Users of the ADS air conditioning service devices from AVL DiTEST need not worry – the device software offers a comprehensive fill volume database that covers all standard vehicle models. The software also includes a diagram to help

users find the service connections on each model. The database is continually being updated and expanded. More than 2000 new vehicles from 79 brands were added to the latest version. The main focus of the database expansion was new vehicles that are equipped with R1234yf, more than 1000 of which have been added. The electric vehicles available include the Hyundai Ioniq, BMW i3 and Renault ZOE.

[The update can be found here.](#)



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