PASSION INNOVATES FUTURE

AVL DITEST

AVL DiTEST noLEAK



The AVL DiTEST noLEAK is an easy to use tool to verify the tightness of the battery pack housings and cooling circuits of all parts in the electrical drivetrain. noLEAK is designed especially for the workshop.

It is important for the battery to be airtight. Moisture and pollution in the high voltage system could cause dangerous chemical reactions or electrical failure. After battery repair it is therefore important to check the housing and cooling circuits to identify possible leaks before rebuilding battery into the vehicle. It guarantees high quality of the repair of the electric vehicle and is a crucial step to assure safety.

noLEAK is a complete solution that guarantees guided and automated procedure for the leak test to meet quality demands during the repair process in the workshop. The system can be offered as a standalone application or integrated into your guided diagnostic system.

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AVL DiTEST noLEAK

Workshop-optimized tool to reliable assure the tightness of housings and cooling circuits.

USE CASES AND APPLICATIONS

- Two independent measuring circuits in one device to test both high voltage components and cooling circuit
- Integrated leakage search functionality
- Integrated acclimatization test to ensure the needed ambient conditions are met

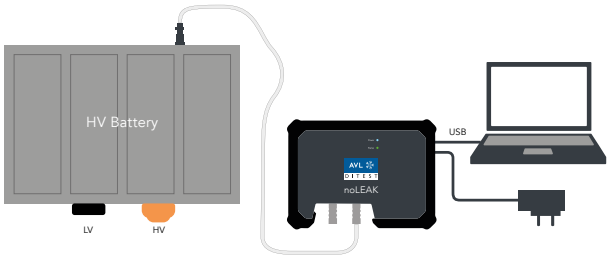

Figure 1: Typical Setup

YOUR BENEFITS

- Portable workshop tool – no need of external air supply
- Guided process workflow for simple application
- Automatically generated test protocol can be stored locally or in cloud-based networks
- Integrated self-test to ensure reliability of the system and therefore high measurement quality
- Smart control strategy for error and abuse detection
- Controlled pressure filling and venting procedure to avoid any possible damages
- Our expertise and support to define the ideal setup parameters
- Possibility to integrate of the tool into your workshop environment

TECHNICAL DATA

Supply	
Inlet voltage	100 to 240 VAC, 50 to 60 Hz
Power consumption	90 W
Power plug	Country specific cord
Ambient conditions	
Operation	2 to 40 °C
Transport and storage	-20 to 55 °C
Regulations	
Electrical protection	EN 61010-1; UL 201 GARAGE-EQUIPMENT Protection class I, IP52 (top view as intended), Degree of contamination II
Battery housing leakage test	
Relative pressure	-140 to 140 mbar
Filling time (overpressure)	3.5 min for 130 liters @ 100 mbar
Measuring time	Adjustable according to battery requirements
Pressure drop accuracy	<±10 µbar (min. 30 s measurement time)
Cooling Circuit leakage test	
Relative pressure	0 to 3 bar
Filling time	8 min for 5.5 liters @ 3 bar
Measuring time	Adjustable according to cooling circuit type
Pressure drop accuracy	<±1 mbar (min. 30 s measurement time)
Mechanic	
Dimensions, standard device	291 mm x 210 mm x 74 mm
Weight	Approx. 2.2 kg Ruggedized design for the workshop environment

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Headquarters: AVL DiTEST GmbH, Alte Poststraße 156, 8020 Graz, AUSTRIA, AVLDiTESTSales@avl.com
German branch: AVL DiTEST GmbH, Schwadermühlstraße 4, 90556 Cadolzburg, GERMANY
Tel. +49 9103 713-540, avl.ditest@avl.com
www.avlditest.com

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