

Optimized simulation chambers with dry-air purge to meet automobile industry standards

Standards are in place in the modern automobile industry to guarantee the safety and quality of the entire production process. Special environmental simulation chambers with dry-air purge make complex material load testing possible, which is required to fulfill the standards stipulated by the automobile industry.

Tuttlingen, 15/06/2015 - Especially in the field of automotive manufacturing, the entire production and delivery chain is determined by standards, and standardized testing specifications regulate test procedures for functionality and safety. Every component in an automobile must function perfectly, even under the harshest of conditions; in daily use, they are repeatedly exposed to severe climatic and mechanical loads. BINDER GmbH has now responded to the constantly increasing requirements in this field and expanded its product offerings. Since the beginning of 2014 all sizes of BINDER's Series MKF and MKFT environmental simulation chambers have been available with an optional controlled dry-air purge function with expanded climate range. Since the beginning of June one additional chamber, MKFT 240, with optional dry-air purge are now optimized for the most common automobile standards, which allows to support automobile manufacturers and suppliers in their development and testing procedures. The expanded climate range enables climate values such as 10 °C and 5% RH or 0 °C and 10 percent RH. This is possible because dew points of down to -28 °C can be achieved. The specified humidity values are achieved quickly and maintained precisely. The unit is therefore especially well suited to carrying out with no problem the often difficult testing scenarios prevalently found in the automobile industry. The automobile components are subjected to demanding material load testing to determine the resistance of materials and molded parts to weather factors, temperature and temperature shifts. The test samples undergo cyclical climate change tests and/or accelerated short-term tests

with a time-lapse effect to determine service life. In this way, possible weaknesses can be detected early in the product-development process in order to avoid costly failures or even image-damaging product recalls. In addition, the tests are reproducible at any time.

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In addition to climate simulation chambers with dry-air purge, BINDER offers other specialized units with alternating climate profiles in various temperature ranges. Chambers without humidification systems are also available. Additionally, units in all product lines can be modified by BINDER to suit any special customer requirements.

More information is available at: www.binder-world.com

About BINDER GmbH:

BINDER is the world's largest specialist in simulation chambers for scientific and industrial laboratories. With its technical solutions, the company contributes significantly to improving the health and safety of people. Our range of products is well suited for routine applications, highly specialized work in research and development, production, and quality assurance. With approx. 400 employees worldwide and an export rate of 80%, BINDER 2013 sales were more than 60 million euros.

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