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GreCon

Dual Chamber Gas Analysis for Formaldehyde Analysis

GreCon

Fire
Protection

GreCon

Measuring
Technology

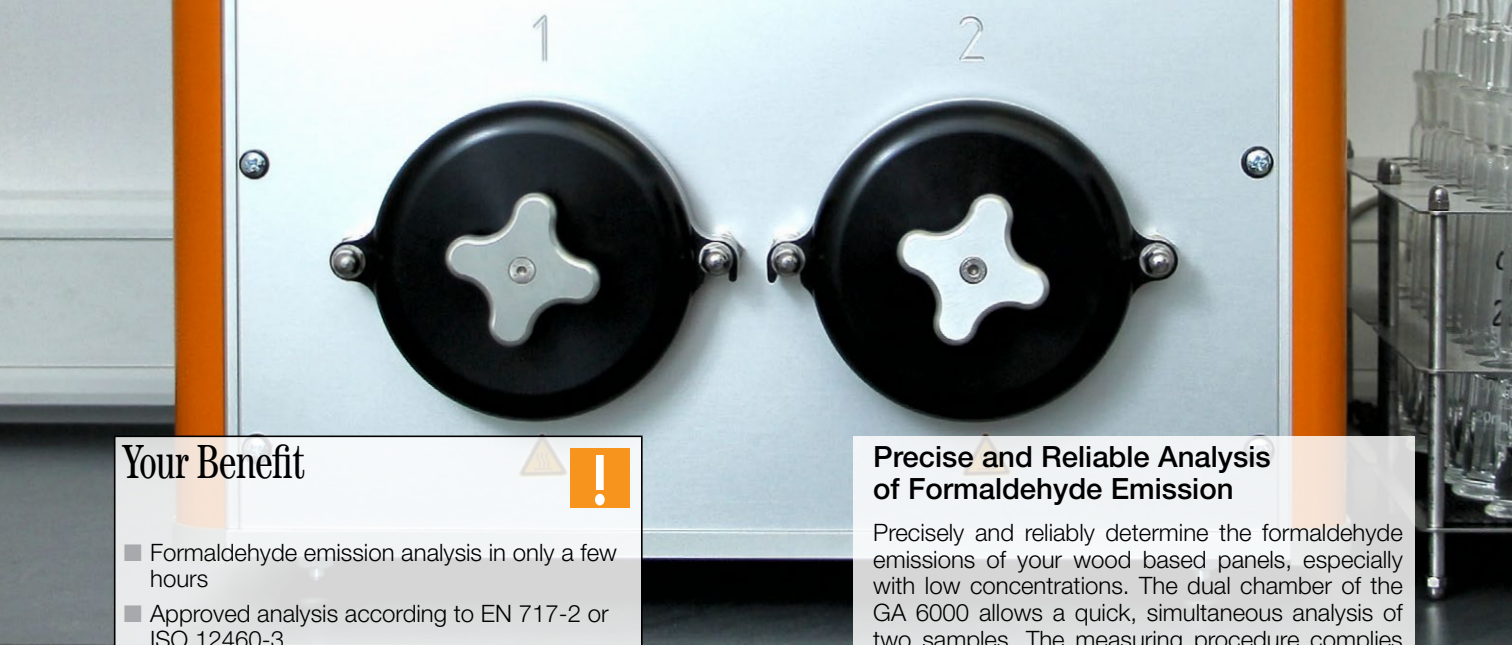
GreCon

Service



EN | R.01 | 2015.04
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GA 6000



Your Benefit



- Formaldehyde emission analysis in only a few hours
- Approved analysis according to EN 717-2 or ISO 12460-3
- Accepted by CARB
- Simultaneous measurement of two samples
- Data export via USB interface
- Immediate measuring start by programmable heating
- Quality control by participation in LabCheck round robin tests

Why GreCon



- Precise and reliable measured values, even with low concentrations
- Compact construction and low energy consumption
- Intuitive and safe operation via 10" colour touch screen
- Regulation of temperature and air flow
- Output of test parameters according to ISO 12460-3
- Automatic leak test
- Heated lines for condensation-free operation
- Online support via GreCon SATELLITE
- More than 70 systems successfully in operation worldwide

Precise and Reliable Analysis of Formaldehyde Emission

Precisely and reliably determine the formaldehyde emissions of your wood based panels, especially with low concentrations. The dual chamber of the GA 6000 allows a quick, simultaneous analysis of two samples. The measuring procedure complies with the European Standard EN 717-2 or the International Standard ISO 12460-3.

A wood based panel sample is placed in each chamber. Air, which absorbs the formaldehyde emitted by the sample, is continuously led through the pre-heated chamber for a time period of four hours. The air is fed into wash bottles in which the formaldehyde dissolves in water. Finally, the formaldehyde concentration is spectrophotometrically determined by means of the acetylacetone method.

To ensure correct and repeatable tests, the device uses modern digital components to monitor air flow, temperature and pressure. These components allow precise display and check of the operating parameters. The chambers of the GA 6000 can be used independently of each other.



GreCon
GA 6000

The image shows a close-up of the GreCon GA 6000 control panel. The touch screen displays 'Chamber 2 Status' with a digital clock at 09:46:42. Parameters shown include Heating (ON), Temp (°C) at 60.0, and Pressure (Pa) at 1103. There are also buttons for 'Stop Test' and 'MDF_2573', and a 'Graph' button at the bottom. The panel has an orange vertical bar on the right side.

LabCheck Online

For quality control of your tests on a regular basis, you can participate in three round robin tests per year. With LabCheck online, matched samples are tested by the participating laboratories as well as the reference laboratory (Steve Young Associates SYA) according to EN 717-2 or ISO 12460-3. The reference laboratory statistically evaluates the results and presents them - anonymised - in a report that is handed to the participants. The transmission of the measured results by the participants is done online with the access being secured by a personal password, as is the viewing of the test results.

By comparing the results with the other participants and the reference laboratory, deviations can be identified and eliminated. Thus, round robin tests are useful for assessing the quality of measurements routinely as well as when establishing a new method.

LabCheck can be used free of charge for a time period of two years.

Software Functions

The GA 6000 is operated intuitively via a colour touch screen. Via the software, the laboratory device can be pre-heated by a clock timer. Furthermore, leak test and cleaning can be easily controlled via the touch screen. The test parameters of the last 10 tests are displayed and can be exported via USB interface.

Software Advantages

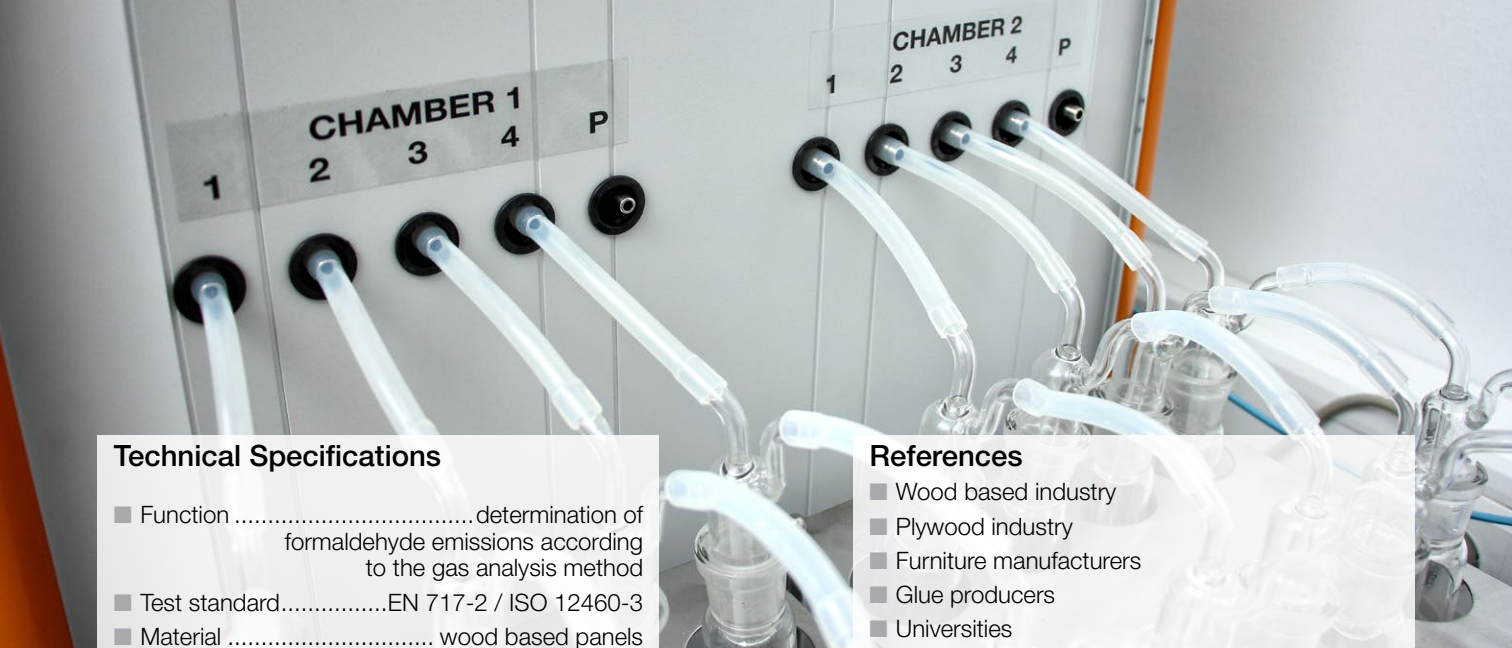
- Easy operation via touch screen
- History of the test parameters of the last 10 tests
- Programmable start time for preheating
- Automatic leak test
- Display of working hours of pumps and filters

Service

Maintenance and service are offered by the GreCon customer service.

GreCon measuring systems are equipped with GreCon online support SATELLITE. This provides safe, simple and fast remote support when there is trouble or to check the system. Each online support is logged and stored in the system's history.

An upgrade of GA 5000 to GA 6000 is generally possible.



Technical Specifications

- Functiondetermination of formaldehyde emissions according to the gas analysis method
- Test standard.....EN 717-2 / ISO 12460-3
- Material wood based panels
- Test sample ..400 mm x 50 mm x panel thickness
- Testing time 4 hours in the chamber + analysing time
- Flow rate – display resolution 1 l/h
- Temperature – display resolution.....0,1 °C
- Pressure – display resolution.....1 Pa
- Flow rate accuracy ± 2 l/h at 60 l/h
- Temperature accuracy± 0,3 °C at 60 °C
- Pressure accuracy ± 30 Pa between 1000 Pa and 1200 Pa
- Power supply.....110/230 V, 50/60 Hz
- Type of network..... phase zero conductor/earth conductor
- Ambient temperature15 °C to 35 °C
- Dimensions..... 560 mm x 560 mm x 560 mm
- Weight of dual chamber..... 67 kg

References

- Wood based industry
- Plywood industry
- Furniture manufacturers
- Glue producers
- Universities
- Research laboratories
- Testing institutes

Detailed view of a measuring chamber

