



UHG

Ultimate Humidity Generator



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Since 1957 LINSEIS Corporation has been delivering outstanding service, know-how and leading innovative products in the field of thermal analysis and thermophysical properties.

Customer satisfaction, innovation, flexibility, and high quality are what LINSEIS represents. Thanks to these fundamentals, our company enjoys an exceptional reputation among the leading scientific and industrial organizations. LINSEIS has been offering highly innovative benchmark products for many years.

The LINSEIS business unit of thermal analysis is involved in the complete range of thermoanalytical equipment for R&D as well as quality control. We support applications in sectors such as polymers, chemical industry, inorganic building materials, and environmental analytics. In addition, thermophysical properties of solids, liquids, and melts can be analyzed.

Rooted in a strong family tradition, LINSEIS is proudly steered into its third generation, maintaining its core values and commitment to excellence, which have been passed down through the family leadership. This generational continuity strengthens our dedication to innovation and quality, embodying the essence of a true family-run business.

LINSEIS provides technological leadership. We develop and manufacture thermoanalytic and thermophysical testing equipment to the highest standards and precision. Due to our innovative drive and precision, we are a leading manufacturer of thermal analysis equipment.

The development of thermoanalytical testing machines requires significant research and a high degree of precision. LINSEIS Corp. invests in this research to the benefit of our customers.

C L A U S L I N S E I S
C E O D I P L . P H Y S .



To strive for the best due diligence and accountability is part of our DNA. Our history is affected by German engineering and strict quality control.

We want to deliver the latest and best technology for our customers. LINSEIS continues to innovate and enhance our existing thermal analyzers. Our goal is to constantly develop new technologies to enable continued discovery in Science.



Engineering & Innovation

Ultimate HG

Presentation

The latest-generation „**Ultimate Humidity Generator**“ from Claneos by LINSEIS will take you into humid atmospheres you’ve never experienced before.



Performance

Its precision humidity and temperature control make it an extremely reliable tool for generating a stable humidity flow.

Temperature range	5-95 °C - Stability <0.05 °C
Speed ramp	Max. 3K/min heating 1 K/min cooling
Humidity range	5-95% - Stability +/- 0,8%

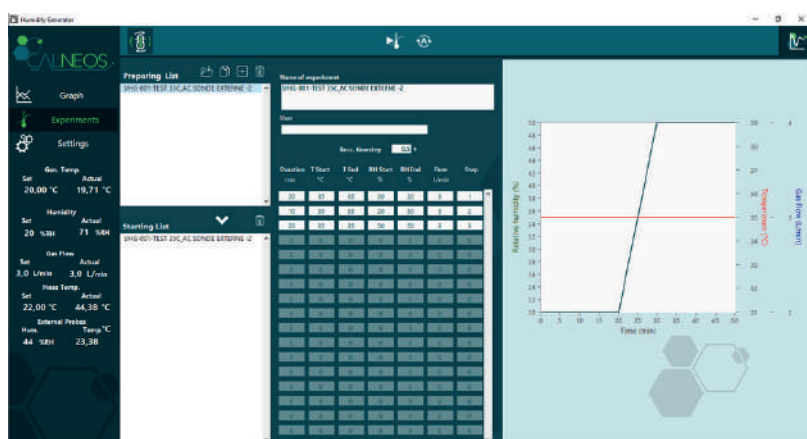
Technical Specifications

Humidity and temperature can be controlled using external probes and can be synchronised with another measuring instrument (e.g. TGA).

Min temp.: 5°C	Max temp.: 95 °C
RH min.: 5 %	RH max.: 95 %
Flow rate (ml/min)	0-5000
Precision RH	+/- 0,8 % Stab. <1 % on 10-80 % Stab. <2,5 % on extreme RH
Temp. accuracy	Stability <0,05 °C
Transfer line	Integrated 2m
Dimensions- weight	475 x 400 x 325 - 20 kg

Software

The user-friendly software will enable you to configure your experiments very easily.

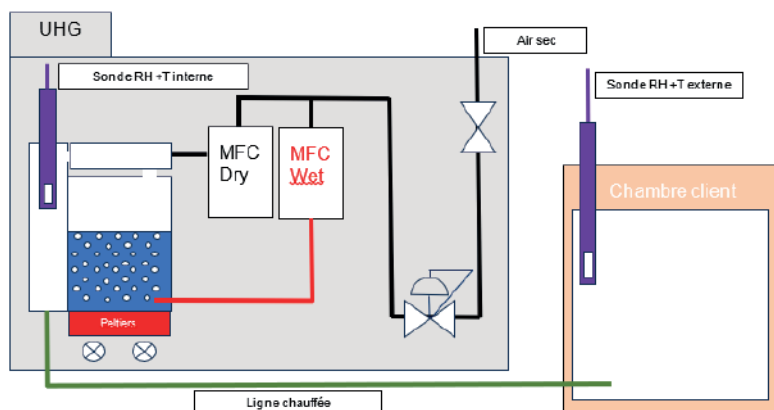


Operation

A stream of dry gas is divided into two flows: one is saturated to 100 % humidity, then the two flows are mixed in a temperature-controlled chamber.

Two internal sensors regulate the temperature and humidity of the flow. This flow can then be fed into a chamber via a heated transfer line.

As an option, external probes can be used to monitor the flow in the chamber.





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