



GenRH-A

Ambient humidity generator

Portable ambient RH generator to augment your characterization systems.....



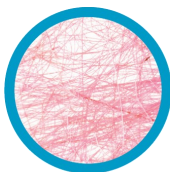
The **GenRH-A** is the world's most flexible instrument for relative humidity (RH) generation, easily coupling to your characterization systems to deliver precision RH levels from 0 to 98% at ambient room temperatures with $\pm 0.7\%$ RH control.

Based on SMS's 20-plus years of experience in RH generation technology, the GenRH-A offers state-of-the-art capabilities within a highly cost-effective instrumentation package.

Also featuring real-time RH and temperature measurement at point of delivery, this system is the perfect low-cost humidity generator for your laboratory applications.

Key GenRH-A applications:

- Aerosol studies and particle sizing
- Sample conditioning
- X-ray diffraction equipment
- FTIR and Raman spectrometers
- Thermo gravimetric analysis
- Electro Dynamic Balance (EDB) chambers
- Dynamic Mechanical Thermal Analysis (DMA)
- Mechanical and texture testing of materials
- Accelerated testing and stability equipment
- Optical and Raman microscopy
- Atomic force and scanning microscopes
- Powder flow and powder mechanics



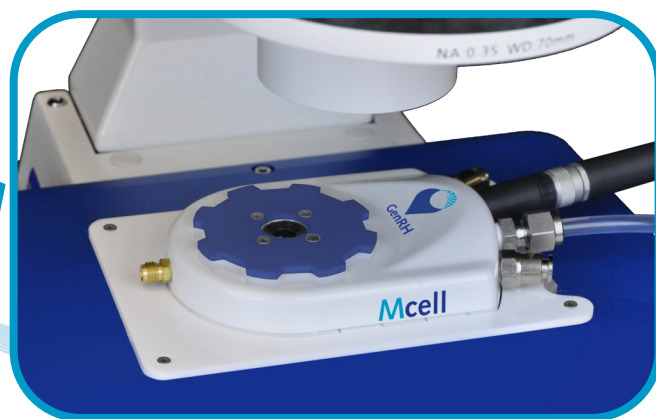


Key specifications and features

- RH control: $\pm 0.7\%$ RH (standard deviation)
- Temperature measurement resolution: 0.1°C
- Requires only dry air and AC power to run
- Easy-change water reservoir bottle
- Flow Range: standard gas flow from 50 - 500sccm (other flow options available)
- 100 - 240V AC
- Very portable
- Weight: 5kg
- Dimensions: 37cm(W) x 13cm(D) x 25cm(H)

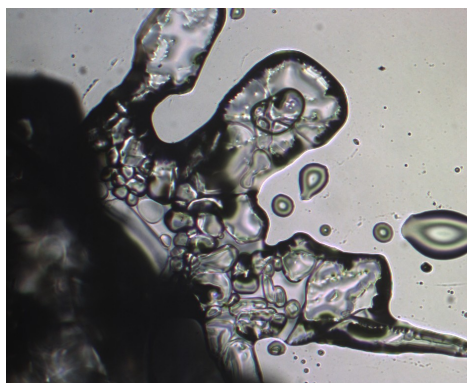
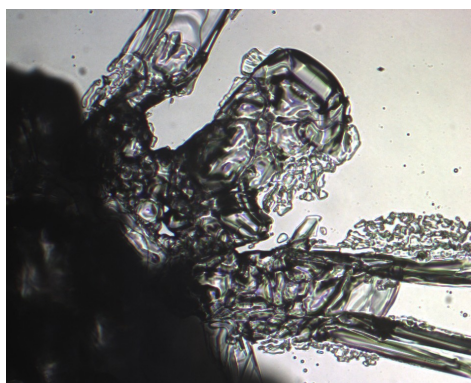
Additional options

- Perspex environmental chamber for humidity generator
- Sample dosing manifold - 4 samples
- PC software for data logging and system control; Windows® XP and Windows® 7 compatible
- 12V battery option
- **GenRH-Mcell**: Cell for optical and other microscopes



The GenRH-Mcell connects to the GenRH-A and is mounted onto microscope platforms. In this way, samples can be observed under precisely controlled ambient humidities.

Selected applications data



Microscope images of KNO_3 under different humidities captured using the GenRH-A in combination with the Mcell.

The images show crystalline KNO_3 at 90%RH (left) and deliquesced KNO_3 at 93.5%RH (right).

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