

SPIN

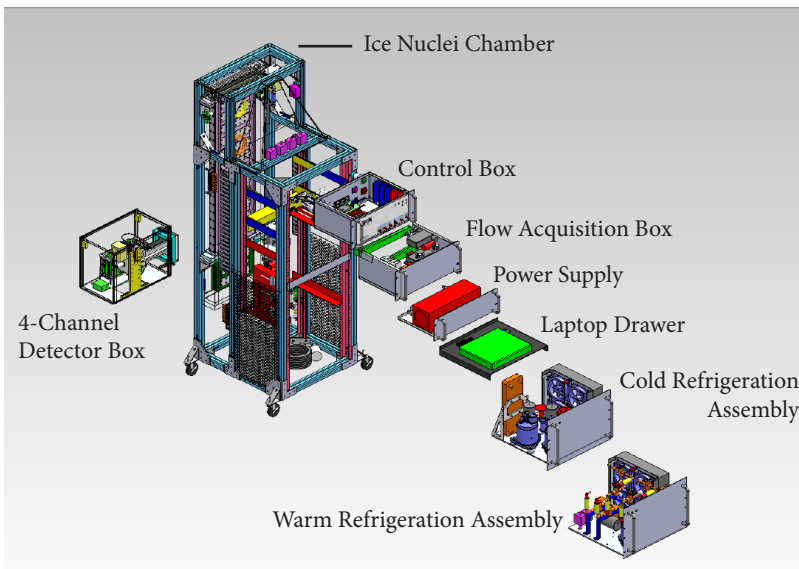
SPECTROMETER | C NUCLEI

The DMT CCN counter has expanded the capability of researchers to understand aerosol-cloud interactions for warm clouds. Missing from the capability of researchers, however, has been the easy ability to study ice cloud nuclei. The Spectrometer for Ice Nuclei (SPIN) fills this gap. The SPIN is the first commercially available IN counter, with a particle detection range from 0.3 – 10 μm . Particle detection allows for individual particle sizing and discrimination of ice and water particles using polarization change in the scattered light.

The SPIN's chamber design is based on parallel-plate geometry. This design provides easy and uniform cooling. A compact refrigeration system cools the plates directly, eliminating the need for external cooling baths and heat exchange fluids.

Specifications

- Particle detection range 0.3 – 10 μm
- Polarization change discrimination of particle phase
- Parallel-plate chamber geometry
- Self-contained, compact refrigeration system:
 - Cold plate temperature to -70°C
 - Warm plate temperature to -40°C
- Full computer control of all systems; automated operation for unattended measurements
- Self-contained in a single rack, 59 cm wide x 73 cm deep x 167 cm high
- Power requirements: 220 VAC, 50/60 Hz, 3000 W or 28 VDC, 3000 W



How to Order

Contact DMT for details: +1.303.440.5576, customer-contact@dropletmeasurement.com. Refer to part # AAA-0132.



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