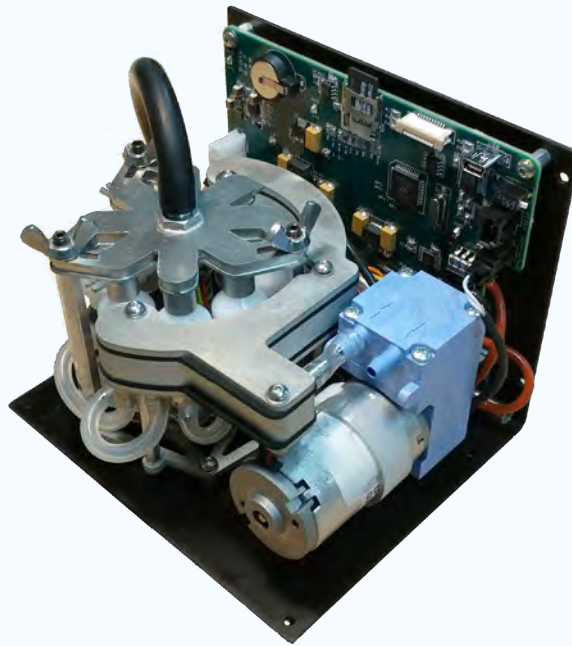


Trusted solutions
for cloud and aerosol measurements

FILT 8-channel Filter Sampler

Model 9401

Easy-to-collect filter and TEM grid samples for time-resolved aerosol chemistry measurements on-board UAV and mobile platforms



Features:

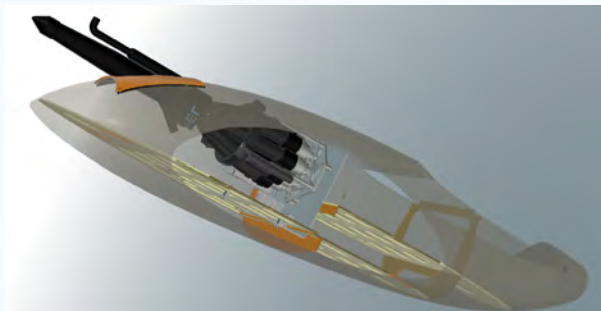
- Eight filters with software actuated sampling
- Easy to install TEM/SEM grid holders
- Portable, lightweight, low power use
- Sample flow rate, pressure and temperature measurements
- Self-contained with on-board software & data storage
- Field tested on unmanned aerial vehicles (UAVs)
- Sampling controllable by remote user commands

BRECHTEL

Brechtel Manufacturing, Inc.
1789 Addison Way
Hayward, CA 94544
510-732-9723
sales@brechtel.com

Dedicated to furthering scientific discovery

Filter Sampler mounted in UAV with 3D printed sample flow inlet (ACC-FILT-Inlet3DA) and Isokinetic inlet.



Specifications

Parameter	Value
Sample flow range	0.5 to 3.3 lpm
Sample flow accuracy	+/- 5%
Number of Filter Holders	8
Filter Holder	Pall 4317 (13 mm Swinney)
Teflon Filter	PTFE, 1 µm pore, 13 mm dia.
Communications	USB and RS-232
Operating Temperature	-20 to 35 °C
Operating Pressure	200-1,100 mb
Operating Humidity	0-95% RH non-condensing
Physical Size	5.3 x 4.4 x 4.51 in/ 13.5x11.2x11.5 cm
FILT Weight w/o Display	2.18 lbs/987 g
Display Weight	0.25 lbs/112 g
Mini PC Weight (option)	0.50 lbs/227 g
Supply Voltage	12 VDC (9-16 VDC)
Power Usage	10 watts
Mounting	Multiple hard mounting points on main bracket

Publications:

Patricia K. Quinn, Timothy S. Bates, Derek J. Coffman, James E. Johnson, and Lucia M. Upchurch, (2024). Use of an Uncrewed Aerial System to Investigate Aerosol Direct and Indirect Radiative Forcing Effects in the Marine Atmosphere. EGUsphere, <https://doi.org/10.5194/egusphere-2023-3128>.

Roman Pohorsky, Andrea Baccarini, Julie Tolu, Lenny H. E. Winkel, and Julia Schmale (2024). Modular Multiplatform Compatible Air Measurement System (MoMuCAMS): a new modular platform for boundary layer aerosol and trace gas vertical measurements in extreme environments. Atmos. Meas. Tech., 17, 731-754, <https://doi.org/10.5194/amt-17-731-2024>.

Applications

- Mobile platform sampling: UAVs, Balloons, Kites, Aircraft, Vehicles
- Personal exposure monitoring
- Climate change field studies
- Air quality monitoring
- Studies of health impacts by aerosols

How to Order

Part No.	Description
9401	8-channel Filter Sampler
9400	Base Module MINI PC with UAV Reader software
CHEM-FIL200-100	PTFE 1.0 µm pore size sample filters for 9401 filter sampler, package of 200
ACC-FILTKit	Maintenance kit for 9401 Filter Sampler
ACC-FILT-TEMkit	Set of 10 TEM grid holder plates and inlet nozzles to sample particles onto TEM grids in 9401 FILT
ACC-PC	Laptop computer pre-loaded with UAV Reader software
8008	Particle Round Jet Impactor (0.5 µm cut size, 0.7 lpm flow)
8009	Particle Round Jet Impactor (1.0 µm cut size, 0.7 lpm flow)
8010	Particle Round Jet Impactor (1.0 µm cut size, 2.0 lpm flow)
8011	Particle Round Jet Impactor (2.0 µm cut size, 2.0 lpm flow)
ACC-PWR	External 12VDC power supply for ground operation of any 94XX-series instrument
ACC-UAV-Reader	UAV Reader Software Installation Package on USB Drive
ACC-Battery	External 12VDC Li-Ion battery for any Model 9400 module (Power:3.6AH, Wt:440g, Size:67x31x106mm)



BRECHTEL

Email us at sales@brechtel.com

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*Some products may be shown with optional accessories, which are sold separately. Items shown may not be to scale.