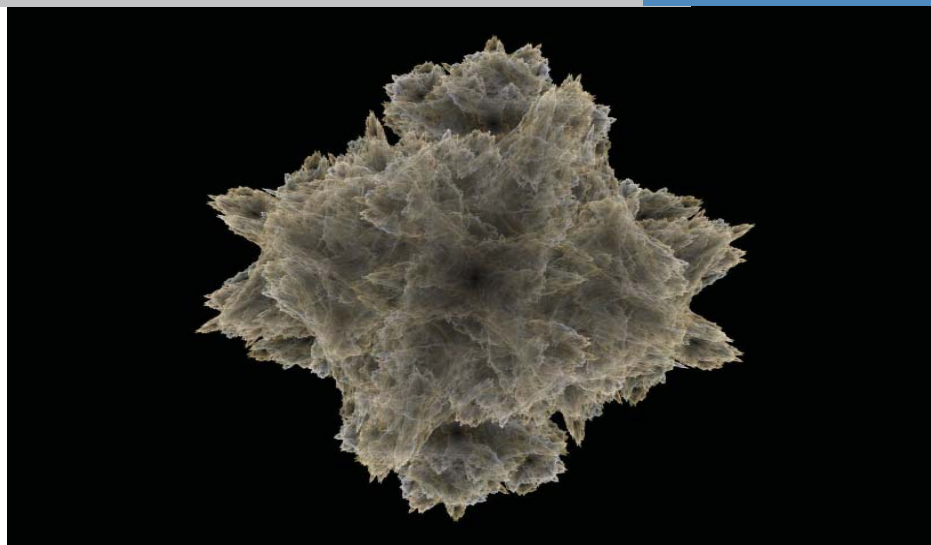


Thermo Scientific Automatic Cartridge Collection Unit, ACCU™ System

Conditional sampling for gravimetric measurements & chemical speciation



Key Features

- Independent collection of PM for chemical analysis
- Flexible for users choice of media and collection hardware
- User-programmable conditional sampling
- Optional PM-2.5 inlet add-on

The Thermo Scientific Automatic Cartridge Collection Unit (ACCU) was designed as a result of input from many users of TEOM® systems. These users not only sought a way to measure particulate mass concentrations in real time, but also looked for a means of collecting particulate matter or gases on their choice of filter media or gas collection tubes under microprocessor control.

The ACCU system adds the ability to sample ambient particulate matter for subsequent chemical analysis by utilizing the auxiliary (bypass) flow of flow splitter-equipped systems and the microprocessor in the Series 1400ab monitor. The bypass flow is carried to the ACCU system, and then onward to the auxiliary flow controller in the control unit (figure on back). Inside the ACCU system a bank of solenoid valves redirects the bypass flow through one of eight sampling devices (optional) mounted within the unit.

An optional PM-2.5 inlet is available when the 1400ab is set up to monitor PM-10.

The standard 47 mm filter holders available for use with the ACCU System are suitable for gravimetric analysis, as well as speciation techniques that involve digestion of a sample from a filter. These include analytical chemistry techniques such as AA (atomic absorption) and ICP (inductively coupled plasma).

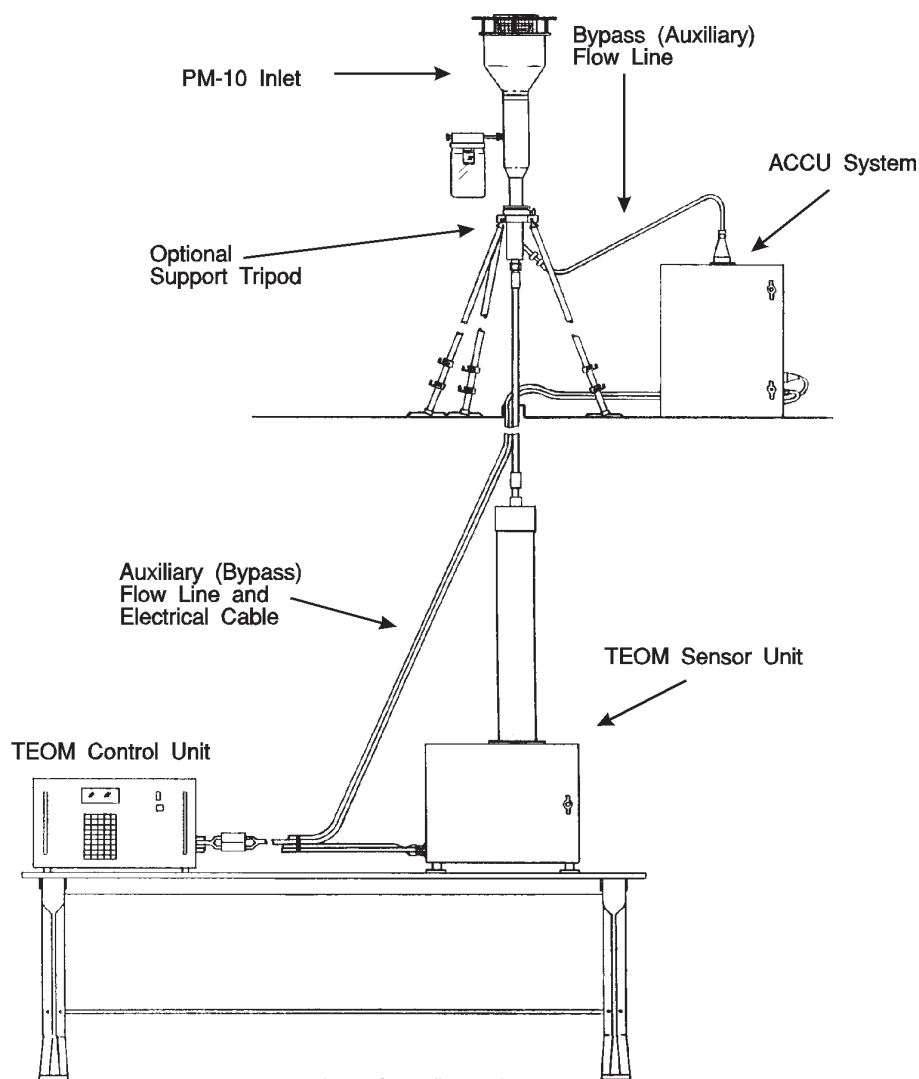
Other analytical methods for the speciation of PM may require a homogeneous distribution of sampled particles across the surface of a collection filter. In such cases, the use of the ACCU Filter Holder for XRF is recommended. It incorporates the same exchangeable filter cassettes for 47 mm diameter filters as the Partisol® family of air samplers.

Product Specifications

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

Automatic Cartridge Collection Unit, ACCU System

Connections	1/4" Quick Connect Fittings, Cable to Control Unit: 10 m, Air Tube to Flow Splitter: 4 m (3/8" OD)
Weight and Dimensions	Exterior Dimensions: 24" (60 cm) H x 21" (52 cm) W x 9" (23 cm) D, Weight: 57 lbs. (26 kg)
Collection Hardware	Maximum Cartridge Size: 13" (33 cm) long x 2" (5 cm) diameter Internal tubing: 7/16" OD, 1/4" ID conductive tubing
Optional Stand	Constructed of anodized aluminum, Supports the ACCU enclosure with 4 bolts mounted directly through the back of the system, Dimensions with stand: 56" (142 cm) H x 21" (52 cm) W x 32" (81 cm) D



This specification sheet is for informational purposes only and is subject to change without notice. Thermo Fisher Scientific makes no warranties, expressed or implied, in this product summary.
© 2009 Thermo Fisher Scientific Inc. All rights reserved Thermo Fisher Scientific Inc.

This product is manufactured in a plant whose quality management system is ISO 9001 certified.

Lit_ACCUAQI_09/09