



Partisol 2000i-D Dichotomous Air Sampler

Federal Equivalent Method ambient sampler featuring simultaneous collection of fine and coarse particles

The Thermo Scientific™ Partisol™ 2000i-D Dichotomous Air Sampler simultaneously collects high quality samples of fine and coarse ambient particulate matter (PM). Developed on the renowned iSeries software platform design, this sampler also features USB ports for improved data downloads.

Features

- U.S. EPA PM-2.5, PM-10 and PM-Coarse Equivalent Sampler
- Enhanced user interface and iSeries communication capabilities
- Improved data downloads
- Collection of fine (PM-2.5) and coarse fractions of PM-10 on two separate 47 mm filters
- Low maintenance requirements

Introduction

The sampler utilizes a virtual impactor to separate an incoming PM-10 air stream into its fine (PM-2.5) and coarse (PM-10 minus PM-2.5) components. The Thermo Scientific Partisol 2000i-D Dichotomous Air Sampler utilizes two FRM style filter cassettes to house the 47 mm filters used to collect the coarse and fine PM. Both sample filter cassettes are installed in a convenient filter cassette carrier. The filter exchange assembly allows fast and simple collection for filter removal. The iSeries communication capabilities of the Partisol 2000i-D sampler offer easier connectivity through an enhanced user interface.

Additional iSeries features include:

- Flash memory for increased data storage
- Enhanced Ethernet connectivity
- Remote data access
- iPort communication software
- Large interface screen
- USB numeric keypad



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Specifications	
Filter holders and media	Accommodates 47mm filter in two sample positions For U.S. EPA PM-10 and PM-2.5 sampling: Teflon™ 2 µm pore size membrane filter (regulation required) For U.S. EPA PM-10 reference sampling: Pallflex TX-40, quartz filter and Teflon™ materials
Sample flow control and reporting	Activol flow control system using mass flow controller. Controls at rates ranging from 5 to 18 volumetric L/min. The sampler displays the current volumetric flow rate (L/min.)
Audit/calibration	Direct software support for single-point and multi-point audit/calibrations of the volumetric flow
Internal data storage	86 days of Interval data (stored every 5 minutes), 32 filter data records, and input data (30 minute default)
Data input and output	Keypad/display for data retrieval and user programming, RS232 interface, Wind vane/anemometer connection with 24 Vdc power output and 2 0-5 Vdc inputs for wind speed and direction, RS485 interface connection
Operational temperature	-40°F to 122°F (-40°C to 50°C)
Power requirements	2.2A @ 120 VAC, 1.1A @ 240 VAC
Physical dimensions	16" (41 cm) W x 24" (61 cm) H x 13" (33 cm) D (inlet system adds 31" to height) Stand: 42" (108 cm) W x 32" (82 cm) H x 18" (46 cm) D
Weight	75 lbs (32 kg)
Safety and electrical designations	CE: 89/336/EEC Electromagnetic Compatibility (EMC Directive), EN 61326:1997 + A1:19985 + A2 2001 73/23/EEC Low Voltage Directive (LVD), EN 61010-1:2001 UL and CSA Equivalent approval
Regulatory designations	U.S. EPA PM-2.5 Equivalent Method: EQPS-0509-177 U.S. EPA PM-10 Equivalent Method: EQPS-311-197

Ordering information

Partisol 2000i-D Dichotomous Air Sampler

Choose from the following configurations/options to customize your own Partisol 2000i-D Dichotomous Air Sampler

1. Voltage options

A = PM-10, 120 VAC 50/60 Hz

B = PM-10, 220 VAC 50/ 60 Hz

Y = Dichot 50/50, 120 VAC 50/60 Hz

Z = Dichot 50/50, 240 VAC 50/60Hz

2. Inlet options

E = PM-10 U.S. EPA

T = PM-10 traditional

V = VSCC inlet combo PM-10 U.S. EPA 1st stage w/PM-2.5C VSCC

W = VSCC inlet combo PM-10 traditional 1st stage w/PM-2.5C VSCC

P = TE inlet combo PM-10 US EPA 1st stage w/TE 2.5C US EPA

Q = TE inlet combo PM-10 traditional 1st stage w/TE 2.5C US EPA

X* = Thermo Fisher Scientific inlet combo PM-10 US EPA 1st stage w/PM-2.5 TF

Y* = Thermo Fisher inlet combo PM-10 traditional 1st Stage w/PM-2.5 TF

Note: X* and Y* are not US EPA approved and hence recommended for research use only

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Your order code: 2000i-D



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