

## PRODUCT SPECIFICATIONS

# 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 offers easier connectivity through an enhanced user interface.



Thermo Scientific™ Partisol™  
2000i-D Dichotomous Air Sampler

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## Additional *iSeries* features also include:

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

## Thermo Scientific Partisol 2000i-D Dichotomous Air Sampler

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 × 24" (61 cm) H × 13" (33 cm) D (inlet system adds 31" to height) Stand: 42" (108 cm) W × 32" (82 cm) H × 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 Reference Method: RFPS-0498-118 U.S. EPA PM-10 Reference Method: RFPS-1298-127 U.S. EPA PM-Coarse Reference Method: RFPS-0509-176

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## 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

E = PM-10 U.S. EPA

T = PM-10 traditional

#### Your Order Code: 2000i-D



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