

CHAPTER 1

Introduction and Unpacking

The AeroTrak[®] Portable Airborne Particle Counter (particle counter) has a touch-screen interface and operates on the included lithium-ion battery or AC power.

These devices have either a 1.0 CFM (28.3 L/min) flow rate, 50 L/min (1.77 CFM) flow rate or a 100 L/min (3.53 CFM) flow rate and count bin sizes from 0.3 to 25 μm depending on the model ordered (see table below). Up to 10,000 data sets can be downloaded for analysis and reporting using the TrakPro[™] Lite Secure Data Downloading Software included with the device. Each model is also available with an “N” suffix to indicate a “No Printer” option.

Model	Size Range	Flow Rate
9310-02	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 μm	28.3 L/min (1 CFM)
9510-02	0.5, 0.7, 1.0, 3.0, 5.0, 10.0 μm	28.3 L/min (1 CFM)
9350-02	0.3, 0.5, 1.0, 2.0, 3.0, 5.0 μm	50 L/min (1.77 CFM)
9350-03	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 μm	50 L/min (1.77 CFM)
9550-02	0.5, 0.7, 1.0, 3.0, 5.0, 10.0 μm	50 L/min (1.77 CFM)
9500-01	0.5, 0.7, 1.0, 3.0, 5.0, 10.0 μm	100 L/min (3.53 CFM)






Typical applications for these particle counters include clean room monitoring, research, exposure assessment, indoor air quality, filter testing, clearance testing, quality assurance, and contaminant migration studies. All AeroTrak[®] particle counters meet JIS standards.









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Unpacking the AeroTrak[®] Airborne Particle Counter

Carefully unpack the AeroTrak[®] Airborne Particle Counter from the shipping container and verify that all the items shown in the photos below and listed in the following tables are present. Contact TSI immediately if items are missing or broken (see [Chapter 7, Contacting Customer Service](#) for more information).

AeroTrak[®] Portable Airborne Particle Counter Parts List

Qty.	Item Description	Part/Model	Reference Picture
1	AeroTrak Airborne Particle Counter	9310-02 9510-02 9350-02 9350-03 9550-02 9500-01	
1	Power Supply 24 VDC 3.0A (Power cord included is country dependent)	801692	
1	Country-Specific Power Cord	700057 (US) 700058 (UK) 700059 (Euro)	
1 or 2	Battery Pack (can install up to 2 ea.)	700028 Qty = 1 (28.3 and 50 L/min models) Qty = 2 (100 L/min models)	
1	Tripod for Isokinetic Probe	3000192	






Qty.	Item Description	Part/Model	Reference Picture
3 m (10 ft)	Sample Tubing	3/8 ID x 1/2 OD (28.3 or 50 L/min models) 1/2 ID x 5/8 OD (100 L/min model)	
1	Isokinetic Probe (Aluminum)	700068 (28.3 L/min) 700089 (50 L/min) 700092 (100 L/min)	
1	Computer Cable (2 m), USB A to B	700033	
2	Stylus	N/A	
1	HEPA Zero Filter Assembly	700119 (for the 28.3 and 50 L/min model) 700098 (for the 100 L/min model)	
1	TrakPro™ Lite Secure Software CD for 21 CFR Part 11 compliant data downloading (includes manuals)	7001901	
1	Operation Manual	6004217	Included on TRAKPRO™ Lite Secure software CD
1	Quick Start Guide	6004218	
1	Alarm Accessories	One Clamp on Ferrite and One 2-pin connector	

Qty.	Item Description	Part/Model	Reference Picture
1	Calibration certificate	N/A	

Optional Accessories

The following photos and table list optional accessories. If you ordered optional accessories, make certain they have been received and are in working order.

AEROTrak[®] Portable Airborne Particle Counter Optional Accessories

Item Description	Part/Model	Reference Picture
Stainless Steel Isokinetic Probe (used with tubing)	700069 (28.3 L/min) 700026 (50 L/min) 700091 (100 L/min)	
Basic Filter Scanning Probe	700070 (28.3 L/min) 700071 (50 L/min) 700088 (100 L/min)	
Electronic Filter Scanning Probe (with start/stop, LED, sound)	700094 (28.3 L/min) 700095 (50 L/min) 700096 (100 L/min)	
Tubing, Superthane 3/8-inch ID x 1/2-inch OD, Clear 100 ft	700062 (28.3 or 50 L/min models)	
Printer Paper (10 rolls)	700027	

Item Description	Part/Model	Reference Picture
Dual Battery Charger Supplied w/ US Power Cord, Order international cord separately	700029	
Velocity/Temperature/ Relative Humidity Probe	964 (Straight) 966 (Articulated)	
Velocity/Temperature Probe	960 (Straight) 962 (Articulated)	
Temperature/RH Probe with Cable	700097	
Carry Case	700086	
Heavy Duty Carry Case (rolling case)	700087	