



HIVOL PLUS

Ambient Air Sampler

The HIVOL PLUS is a high volume air sampler used for the collection of Total Suspended Particulates (TSP). Utilizing a microprocessor controlled flow controller, and ambient temperature and barometric pressure sensors; the system is designed to accurately record and control the ambient flow rate. The system also features an automatic calibration function for quick and easy flow rate calibration. The LCD display, soft press keypad, and intuitive menu structure is designed for simple user interaction.

ABOUT US: Tisch Environmental Inc. Tisch Environmental is the benchmark for high volume air sampling, particulate, metals, volatiles, and specialty monitoring equipment. Since the company's inception in 1953 as General Metal Works, our product line has expanded from the first high volume air sampler to include high-tech and custom samplers. Our clients are professionals from every sector of the regulatory and industrial markets.

- ④ **40 CFR Part 50 Appendix B**
- ④ **Total Suspended Particulates**
- ④ **Automatic Calibration**
- ④ **Digital Timer**
- ④ **Multiple Elapsed Time Indicators**
- ④ **USB Data Retrieval**
- ④ **Records Temperature and Barometric Pressure**
- ④ **Accurately Calculates Flow Rate**
- ④ **35-60 CFM**
- ④ **LCD Display**
- ④ **Made In USA**

General System Specifications

Particulate Size: Total Suspended Particulates
EPA Designation: 40 CFR Part 50 Appendix B
Flow Controller: PLUS Technology
Motor Style: Brush or Brushless Style Motor Assembly
Timer: Programmable Digital
Elapsed Time Indicator: Digital, Hours and Tenths
Flow Range: 35-60 CFM
Housing: Anodized Aluminum
Filter Holder: Stainless Steel
Barometric Pressure Sensor: 600-800 mmHg
Temperature Sensor: -40 to 90°C
Data Logs(4): Timer, Interval, Power, Calibration

Applications

US EPA Reference Method Sampling,
Regulatory Compliance
Institutional Studies
Construction Sites
Bridge and Water Tower Painting Sites
Fence Line Monitoring
Industrial Monitoring
Landfill Monitoring
Public Health Applications

Available Models

Brush Style

TE-HVPLUS, 110 Volt 60 Hertz, 8 Amps
TE-HVPLUSX, 220 Volt 50 Hertz 4 Amps
TE-HVPLUSXZ, 220 Volts 60 Hertz, 4 Amps

Brushless Style

TE-HVPLUS-BL, 110 Volt 60 Hertz, 8 Amps
TE-HVPLUSX-BL, 220 Volt 50/60 Hertz 4 Amps

Calibration Equipment

TE-5025 HVP -HOVOL PLUS Calibration Kit

Digital Timer Features

Programmable Sampling Schedule
Multiple Elapsed Time indicators
Internal Battery Backup
LCD Screen
Soft Press Keypad Buttons
US EPA Recommended

Optional Equipment

TE-G653 8" x 10 " Glass Fiber Filters
TE-33384 Motor Brush Set (110volt)
TE-33378 Motor Brush Set (220volt)
TE-116311 Replacement Brush Motor (110volt)
TE-116312 Replacement Brush Motor (220 volt)
TE-117417 Replacement Brushless Motor (110 volt)
TE-117415 Replacement Brushless Motor (220 volt)

Physical Specifications

Weight: 75lbs, Shelter

Shipping Dimensions: 48"W x 20"L x 20" H, Shelter
19"W x 19"L x 20"H, Lid

Assembled Dimensions: 28"W x 28"L x 61"H



MFC TSP

Ambient Air Sampler w/Digital Timer

The TE-5170D is a high volume ambient Total Suspended Particulate (TSP) air sampler featuring a mass flow controller (MFC) for accurate and consistent particulate sampling and a US EPA recommended digital timer. The mass flow controller adjust the motor speed as the filter media collects particulate to maintain a constant flow rate throughout the entire sample duration. The system utilizes a stainless steel filter holder for use with standard 8" x 10" filter paper. The anodized aluminum shelter and robust electrical components allow the system to operate a continuous 24 hour sample.

ABOUT US: Tisch Environmental Inc. Tisch Environmental is the benchmark for high volume air sampling, particulate, metals, volatiles, and specialty monitoring equipment. Since the company's inception in 1953 as General Metal Works, our product line has expanded from the first high volume air sampler to include high-tech and custom samplers. Our clients are professionals from every sector of the regulatory and industrial markets.

- ④ Meets EPA CFR, Appendix B to Part 50
- ④ Total Suspended Particulate(TSP)
- ④ Mass Flow Controlled
- ④ Digital Timer
- ④ Multiple Elapsed Time Indicator
- ④ Aluminum Outdoor Shelter
- ④ Brush Style Motor
- ④ Dickson Chart Recorder, 24 Hour
- ④ Stainless Steel Filter Holder
- ④ 36-60 CFM
- ④ Made in USA

General System Specifications

- Particulate Size:**Total Suspended Particulate (TSP)
- EPA Designation:**CFR 40 Part 50 Appendix B
- Flow Controller:** Mass Flow Controller
- Motor Style:**Brush Style Motor Assembly
- Pressure Recorder:**Dickson Chart Recorder, 24 hour
- Timer:** Programmable Digital
- Elapsed Time Indicator:** Digital, Hours and Tenths
- Flow Range:**39-60CFM, 1.09M³M-1.68M³M
- Housing:**Anodized Aluminum
- Filter Holder:**Stainless Steel, 8" x 10"
- 4" Recorder Charts:** Box of 100
- Filter Holder:** 8" x 10" Stainless Steel with hold down frame

Applications

- US EPA Reference Method Sampling, CFR Appendix J Part 50 Regulatory Compliance
- Institutional Studies
- Construction Sites
- Bridge and Water Tower Painting Sites
- Fence Line Monitoring
- Industrial Monitoring
- Landfill Monitoring
- Public Health Applications

Available Models

- TE-5170D TSP MFC, 110 Volt 60 Hertz, 8 Amps**
- TE-5170DX TSP MFC, 220 Volt 50 Hertz, 4 Amps**
- TE-5170DXZ TSP MFC, 220 Volts 60 Hertz, 4 Amps**

Calibration Equipment

- TE-5028 -Variable Flow Calibration Kit
- TE-HVC-V Xcalibrator HiVol Calibrator

Digital Timer Features

- Programmable Sampling Schedule
- LCD Display
- Internal Battery Backup
- Multiple ETIs
- US EPA Recommended
- Soft Press Keypad

Optional Equipment

- TE-3000 Filter Holder Cartridge
- TE-G653 8" x 10" Glass Fiber Filter Media
- TE-33384 Motor Brush Set (110volt)
- TE-33378 Motor Brush Set (220volt)
- TE-116311 Replacement Motor (110volt)
- TE-116312 Replacement Motor (220volt)
- TE-106 Recorder Charts
- TE-160 Recorder Pen Points
- TE-5018 Gasket 8" x 10"

Physical Specifications

- Weight:** 75lbs, Shelter
- Shipping Dimensions:** 46"W x 23"L x 20" H, Shelter
19"W x 19"L x 20"H, Lid
- Assembled Dimensions:** 28"W x 28"L x 61"H



MFC TSP
Ambient Air Sampler

The TE-5170 is a high volume ambient Total Suspended Particulate (TSP) air sampler featuring a mass flow controller (MFC) for accurate and consistent particulate sampling. The mass flow controller adjust the motor speed as the filter media collects particulate to maintain a constant flow rate throughout the entire sample duration. The system utilizes a stainless steel filter holder for use with standard 8" x 10" filter paper. The anodized aluminum shelter and robust electrical components allow the system to operate a continuous 24 hour sample.

ABOUT US: Tisch Environmental Inc. Tisch Environmental is the benchmark for high volume air sampling, particulate, metals, volatiles, and specialty monitoring equipment. Since the company's inception in 1953 as General Metal Works, our product line has expanded from the first high volume air sampler to include high-tech and custom samplers. Our clients are professionals from every sector of the regulatory and industrial markets.

- ④ **Meets EPA CFR, Appendix B to Part 50**
- ④ **Total Suspended Particulate(TSP)**
- ④ **Mass Flow Controlled**
- ④ **7-Day Mechanical Timer**
- ④ **Elapsed Time Indicator**
- ④ **Aluminum Outdoor Shelter**
- ④ **Brush Style Motor**
- ④ **Dickson Chart Recorder, 24 Hour**
- ④ **Stainless Steel Filter Holder**
- ④ **36-60 CFM**
- ④ **Made in USA**

General System Specifications

Particulate Size:Total Suspended Particulate (TSP)
EPA Designation: CFR 40 Part 50 Appendix B
Flow Controller: Mass Flow Controller
Motor Style:Brush Style Motor Assembly
Pressure Recorder:Dickson Chart Recorder, 24 hour
Timer:7 Day Mechanical
Elapsed Time Indicator:Mechanical, Hours and Tenths
Flow Range:39-60CFM, 1.09M³M-1.68M³M
Housing:Anodized Aluminum
Filter Holder:Stainless Steel, 8" x 10"
4" Recorder Charts: Box of 100
Filter Holder: 8" x 10" Stainless Steel with hold down frame

Available Models

TE-5170 TSP MFC, 110 Volt 60 Hertz, 8 Amps
TE-5170X TSP MFC, 220 Volt 50 Hertz 4 Amps
TE-5170XZ TSP MFC, 220 Volts 60 Hertz, 4 Amps

Calibration Equipment

TE-5028 -Variable Flow Calibration Kit
TE-HVC-V Xcalibrator HiVol Calibrator

Applications

US EPA Reference Method Sampling, CFR
Appendix J Part 50 Regulatory Compliance
Institutional Studies
Construction Sites
Bridge and Water Tower Painting Sites
Fence Line Monitoring
Industrial Monitoring
Landfill Monitoring
Public Health Applications

Optional Equipment

TE-3000 Filter Holder Cartridge
TE-G653 8" x 10" Glass Fiber Filter Media
TE-33384 Motor Brush Set (110volt)
TE-33378 Motor Brush Set (220volt)
TE-116311 Replacement Motor (110volt)
TE-116312 Replacement Motor (220volt)
TE-106 Recorder Charts
TE-160 Recorder Pen Points
TE-5018 Gasket 8" x 10"

Physical Specifications

Weight: 75lbs, Shelter
Shipping Dimensions: 46"W x 23"L x 20" H, Shelter
19"W x 19"L x 20"H, Lid
Assembled Dimensions: 28"W x 28"L x 61"H