



**Remote
Communication
& Operation**

HVP-4300AFC Series & HVP-4200AFC

TSP HI-Vols

- Automatic/PID Mass or Volumetric Flow Control
- Networking & Communication Capabilities
- Continuous Data Logging
- Auto Calibration feature
- Programmable Timer & Total Volume Shut-Off
- Brushless 2 or 3 Stage Blower Motor
- For Continuous Use/Maintenance Free
- Applicable to EPA's 40 CFR 50, App. B
- PM-10 Head Adaptable

The HVP-4000AFC-Series high volume air samplers are housed in a clear-anodized aluminum outdoor shelter. The units incorporate a maintenance-free, two or three stage centrifugal blower powered by a brushless, variable speed, maintenance free motor. Blower selection is dependent upon individual sampling environment. The speed of the motor is controlled by a programmable logic controller (PLC) that accepts an input from a mass or volumetric flow sensor mounted in the sample air flow stream. The PLC detects changes in the operator's pre-set flow rate due to changes in temperature, barometric pressure and pressure drop due to dust loading on filter media. It compensates for these changes by adjusting the motor speed to maintain the pre-set flow rate.

The illuminated, graphic LCD displays the operator's Pre-Set Flow Rate, Instantaneous Flow Rate, Total Volume of Air Sampled, and Elapsed Sample Time. The PLC also allows for programming of custom sample on/off time settings & pre-set total volume shut off.

Networking and Communication option set-ups include: two (selectable) RS232/RS485 ports, a 4-20 mA and/or 0-10 VDC analog output proportional to flow, the ability to send & receive SMS messages to/from any CDMA/GSM cellular phone for possibly alerting/reporting any pre-defined event via text message, remote or local data acquisition, data logging in MS Excel format, and a custom remote access utility that allows complete control of the unit from a remote location.

Ordering Information

Motor/Pump:	Brushless, 2 or 3 Stage Centrifugal Blower. For motor specification see product description under Replacement Blowers.
Housing:	Anodized Aluminum Outdoor Shelter with lockable control panel door and filter media roof. See model # HVP-2000 for overall cabinet dimensions. Modular Cabinet Design Option Available.
Display:	Illuminated, Graphic LCD Screen
Calibrated Flow Range: (HVP-4200/4300AFC)	10-50 SCFM (SCMM or SLPM unit calibration upon request)
Calibrated Flow Range: (HVP-4204/4304AFC)	2-15 SCFM (SCMM or SLPM unit calibration upon request)
Flow Totalizer:	Default to Resettable Standard Cubic Feet (total volume in cubic meters or liters upon request)
Elapsed Time:	Minutes and Tenths of Minutes
Unit Net Weight:	58 lbs.
Shipping Weights & Dimensions:	20" x 20" x 50" @ 55 lbs. (Box 1) 18" x 18" x 24" @ 11 lbs. (Box 2)
HVP-4300/4AFC	115 VAC, 50/60 Hz., 10 Amp, 800 Watt / Max Vacuum Capacity 85" H2O
Power Specifications:	230 VAC, 50/60 Hz., 10.5 Amp, 1200 Watt / Max Vacuum Capacity 118" H2O
HVP-4200/4AFC	115 VAC, 50/60Hz., 5.0 Amp, 250 Watt / Max Vacuum Capacity 49" H2O
Power Specifications:	230 VAC, 50/60Hz., 4.5 Amp, 400 Watt / Max Vacuum Capacity 39" H2O
Flow Calibrator:	See Air Flow Calibrators
Filter Paper:	See Filter Paper For Air Sampling
PM-10:	See Size Selective Inlets
Options:	Volumetric Flow Control, Barometric Pressure & Temperature Sensor, Modular Cabinet Design, Automatic Filter Shield, 8" x 10" Filter Cartridge, Data & Barcode Printer, SMS Messaging, Analog Output & more...

HVP-4300AFC (3-stage)

Automatic flow control, Hi-Vol Air Sampler, 115VAC with 3 stage brushless blower unit. Unit includes 8" X 10" filter paper holder

HVP-4200AFC (2-stage)

Automatic flow control, Hi-Vol Air Sampler, 115VAC with 2 stage brushless blower unit. Unit includes 8" X 10" filter paper holder

HVP-4304AFC (3-stage)

Automatic flow control, Hi-Vol Air Sampler, 115VAC with 3 stage brushless blower unit. Unit includes 4" diameter filter paper holder

HVP-4204AFC (2-stage)

Automatic flow control, Hi-Vol Air Sampler, 115VAC with 2 stage brushless blower unit. Unit includes 4" diameter filter paper holder

230 Volt units, see descriptions above.

HVP-4300AFC/230

HVP-4200AFC/230

HVP-4304AFC/230

HVP-4204AFC/230