XC-5000 AUTOKINETIC™ SAMPLER CONSOLE

Our **XC-5000 AutoKinetic™ Series** is designed for conducting US EPA Method 5 and associated isokinetic methods. Take the worry out of isokinetic sampling and the human error out of manual data entries and calculations. The new XC-5000 Series is compatible with your existing Method 5 stack sampling components. Report preparation is streamlined with accurate data downloadable to files for easy report preparation.

Advantages of XC-5000

- **Quality Data**
- **Easy to Use**
- **Streamline Reporting**

Features and Benefits:

- Fully Automated Isokinetic Sampler improves data integrity
- Intuitive Windows Interface guides you through the Sampling protocol
- Calculates traverse points, optimum nozzle diameter, and isokinetic rate
- Accepts standard modules for various EPA Methods
- Automated Pre & Post Leak Checks
- Automatically pauses at the end of point or traverse
- Notifies you to move the probe
- Alarms for user attention
- Continuous Sampling Validation

XC-5000 Isokinetic Source Sampler Console

Model	Description	Price
XC-5000	AutoKinetic™ Sampler Console, 110V	$13,545.00
XC-5000-V	AutoKinetic™ Sampler™ Console, 240V	$13,545.00

Sample Pump: Accepts Standard Method 5 Pump Assemblies.

ISOKINETIC SOURCE SAMPLING METER CONSOLE OPTIONS

XC-5000-☐☐☐

Calibration Units
Blank = English Units
M = Metric Units

Quick Connects
Blank = 1/4" Pitot
QC6 = 3/8" Pitot

Voltage
Blank = 120V/60Hz
V = 240V/50Hz

Specifications

Gas Meter: Precision DGM, 0.7 liters per revolution, Digital Encoder, 1cc resolution.

Temperature Control: Integrated temperature control via the Control and Data Acquisition Board, probe and oven with solid state relays.

Thermocouple Display: 7 temperatures displayed simultaneously on the PC User Interface, °F or °C, Probe, Stack, Oven, Filter, Exit, AUX and DGM.

Digital Pressure Transducers for ΔH, and ΔP (Bi-Directional), Barometric.

ΔP +/- 2.5"	0.01" resolution	
+/- 63mm	0.1 mm resolution	
ΔH 0"-5"	0.01" resolutions	
0mm-127mm	0.1mm resolution	
Barometric	17.7 inHg – 32.5 inHg	0.01 inHg resolution
	450 mmHg – 825 mmHg	0.1m mmHg resolution
Vacuum Sensor	0 to 30" Hg, 0 to 101 kPa, 2% accuracy	

Optional:
4 channel analog input module for logging external data (4-20ma, 0-10V, 1-5V).

Power: 120V / 60 Hz. 220V / 50 Hz (optional).

Console Power Requirements:
120V 15amp max.

Umbilical Connections:
Electrical: 4 conductor circular connector grounded shell.
Sample line: Stainless Steel 1/2" Quick Connector.
Pitot Line: Stainless Steel 1/4" Quick Connectors (optional 3/8").
External pump: Stainless Steel 3/8" Quick Connect.
Thermocouples: Type-K standard size.

Communication:
Wireless and Ethernet.

Dimensions:
23" x 21" x 12" (58 cm x 53 cm x 30.5 cm).

Weight: 39 lbs. (17.7 kg).

AutoKinetic™ Software

Main Screen

Menu bar tabs providing access to the "Main" menu window, the 'Monitor' display and system status "Alerts" page. Job progress menu buttons. By completing information and procedures contained in each job progress menu item, in a stepwise fashion, the entire testing process is efficiently and consistently performed. As each menu item is completed, a check box is automatically displayed immediately to the left of the menu item. The next menu item becomes available when its predecessor is completed. System control functions: Connect, Load Project, Save Project, New Project, Config/Utilities, and End.

Monitor Screen

To activate the heaters in the filter compartment (Hot Box) and the probe heater turn on the switches labeled FILTER and PROBE from the "Monitor" window in the XC-5000 software's User Interface. The indicator lights on the SD31 Temperature automatic controllers will illuminate. The temperature controllers can also be adjusted via the User Interface.
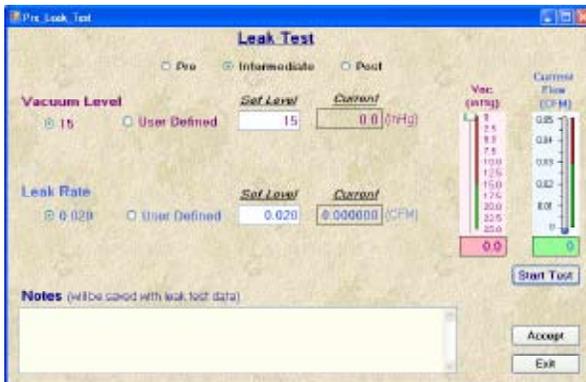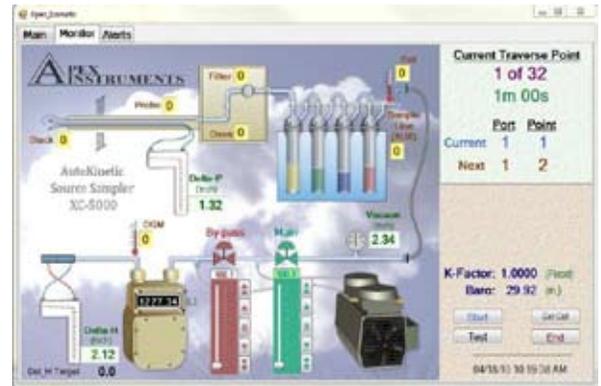

Leak Test Screen

Perform a Post Test Leak-Check of the sampling train at the maximum vacuum achieved during the sample run. Verify the Leak Rate set point is correct. Using the program defaults by clicking the radio button immediately to the left of the respective parameter values.

Method 1 Screen Stack Diameter Calculations

The XC-5000 software calculates the stack area, the stack diameter, and the number of diameters to the upstream and downstream disturbances.
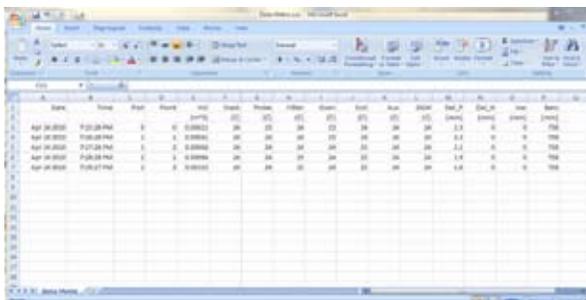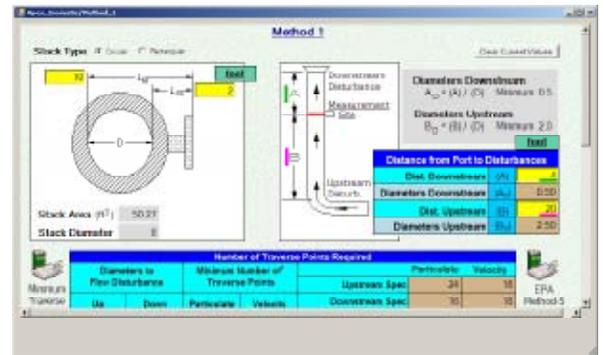
Test Data & Reporting

- Temperature
- Profile Name
- Logged Events
- Averages
- Standard Volumes
- Pre and Post Leak Check
- Barometric Pressure
- Flow Rate
- Vacuum
- Start, Stop & Event Times

For more information, contact us :
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