



WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

▶ Method 17 Sampling System

Isokinetic In-stack Particulate Emissions Sampler

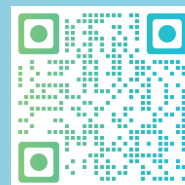


The Apex Instruments Method 17 Isokinetic Sampling System, featuring the XC-53 metering console, is ideal for collecting and determining in-stack particulate emissions from a wide variety of sources. Particulate emissions are commonly sampled from coal-fired power plants, cement kilns, asphalt plants, incinerators and industrial sources. Emissions data can be used for determining compliance with environmental regulations, acceptance tests for new control equipment, process optimization studies, plume dispersion modeling and providing data for health risk assessments.

Scan the QR Code for
More Information

Features

- The **system** allows the operator to monitor gas velocities, temperatures, pressures, sample flow rates, and volumes for maintaining isokinetic sampling conditions to obtain a representative sample.
- The **modular design** is easily adapted to test for a wide range of pollutants from stationary sources, such as particulate matter, including PM2.5 and PM10 fractions, sulfur oxides, metals, polychlorinated biphenyls (PCBs), dioxins/furans, polycyclic aromatic hydrocarbons (PAHs) and many more pollutants.
- The Apex Instruments sampling system is easily assembled and comprised of four sub-systems: the **heated probe assembly** with an **in-stack filter assembly** and **nozzle**, the **insulated impinger case** with **glass impingers**, and the **umbilical cable** and **sample line** that connect the impinger sample case and probe to the metering console.



▶ Method 17 Sampling System Packing List

Isokinetic In-stack Particulate Emissions Sampler



SB-6 Impinger Case



Umbilicals



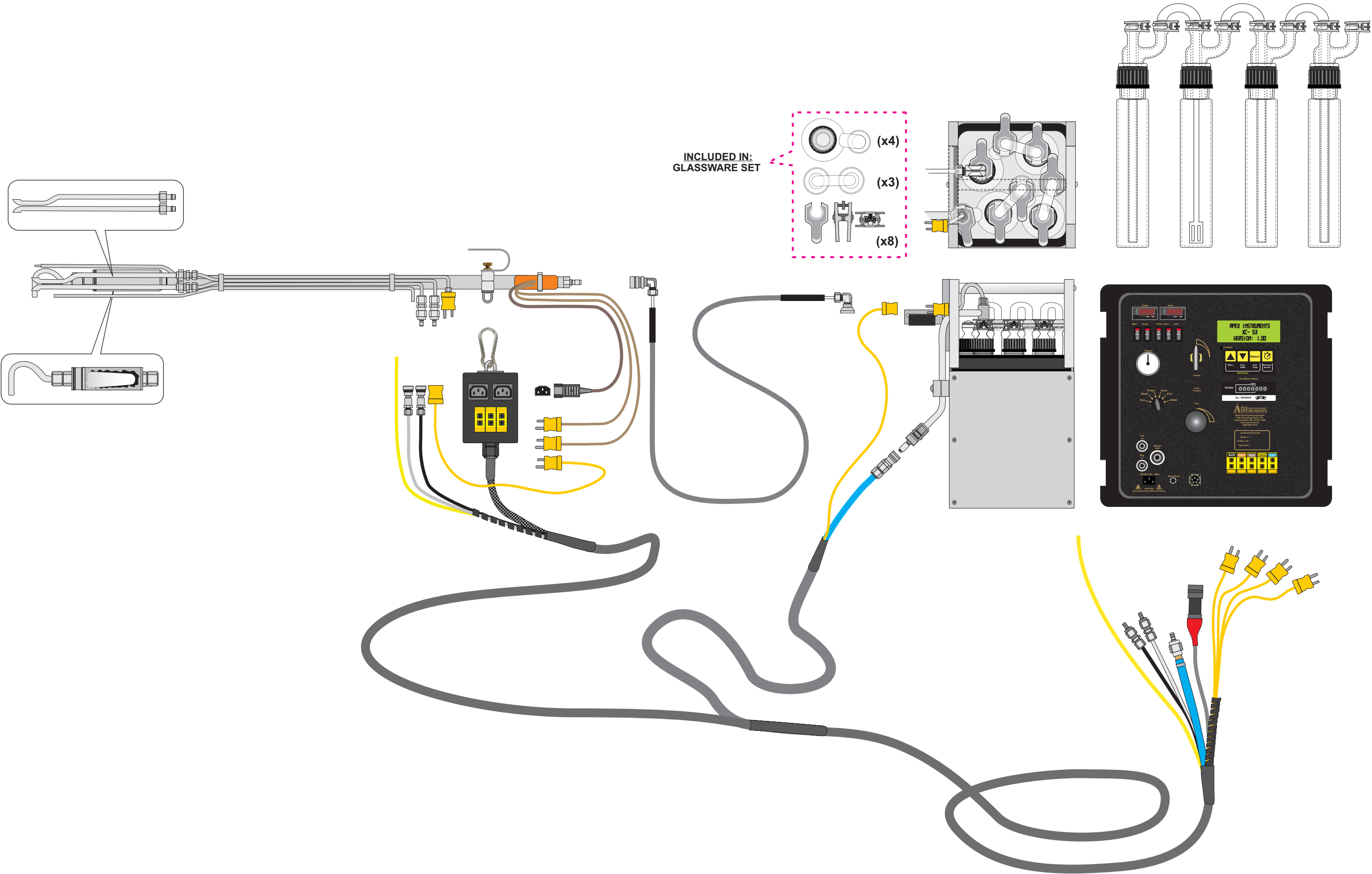
Umbilical Junction Box

Your Method 17 Sampling Solution



**SCAN THE QR CODE
FOR THE COMPLETE PACKING LIST**

XC-53B-MV FLEXIBLE METHOD 17 SAMPLING TRAIN



XC-53 **LEGEND**

XC-53 -

Pump Options:

BLANK = Internal Pump Only
(Standard)

P = Fittings for Additional _____
Pump Installed (Female/Female)

XP = No Internal Pump (Male and Female)

Power Output Option:

A = 5 Pin Amphenol
(Size 14S Shell - Male/97 Series)

B = 5 Pin Amphenol
(Size 14 Shell - Bayonet Style/PT Series)

C = 5 Pin Amphenol
(Size 16S Shell - Male/97 Series)

Gas Meter Display Options:

BLANK = Mechanical

D = Digital

Temperature Controller Option:

BLANK = English

M = Metric

Analyzer Output Option:

BLANK = None

A = 1/4" Valved Female _____
Quick Connect

Pitot Quick Connects:

BLANK = 1/4" Instrumental

QS6 = 3/8" Instrumental

Voltage:

BLANK = 120V

V = 240V

M17-201A PROBE SHEATH LEGEND

PS- -

Length (in Feet):

Examples -

4 = 4 ft.

6 = 6 ft.

Alloy:

BLANK = Stainless Steel

A = Alloy 600 (Inconel)

C = Alloy C22/C276 (Hastelloy)

D = 253MA

Heater:

BLANK = No Heater

H = Heater

Over Sheath Options:

BLANK = No Over Sheath

O2 = 2" Over Sheath

Pitot Length:

M#### = MPT Length (in Millimeters)

Pitot Length Chart

Product	Standard Pitot Length (mm)	Probe w/ Oversheath Pitot Length (mm)	Application
Probe Base	181	133	Method 5
SFA-47 Filter	225 (Offset)	177 (Offset)	Method 17
SFA-300	320 (Offset)	272 (Offset)	Method 17
SFA-2590	308	260	Method 17
PM2.5	181 (Offset)	133	Method 201A
PM10	255 (Offset)	207 (Offset)	Method 201A
PM2.5/10	425 (Offset)	377 (Offset)	Method 201A

Pitot Quick Connect:

BLANK = 1/4" Instrumental QC

QS6 = 3/8" Instrumental QC

Voltage/Power Plug Options:

BLANK = 120V (5-15) (Domestic)

C14 = 120V (International)

C14V = 240V (International)

HEATED JUMPER SAMPLE LINE LEGEND

HSLJ-6- -

Length (in Feet):

30 ft. Maximum

Examples:

10 = 10 feet

15 = 15 feet

Options for Outlet/Inlet:

TS = Tube Stub Fittings Only on Both Ends

4N = 1/4" Male NPT Fittings on Both Ends

TS4N = Tube Stub Fitting on One End
and 1/4" Male NPT Fitting on
the Other End

SS = #28 Socket Elbow on Both Ends

SST = #28 Socket Elbow on One End
and #28 Socket Elbow w/ TC on
the Other End

QST = #28 Socket Elbow on One End
and 3/8" Full Flow QC Elbow
w/ TC on the Other End

F6S = #28 Socket Elbow on One End
and 3/8" Full Flow QC Elbow on the
Other End

Voltage/Power Plug Options:

BLANK = 120V (5-15) (Domestic)

C14 = 120V (International)

C14V = 240V (International)

UNHEATED SAMPLE LINE LEGEND

USL- -

Length (in Feet):

Examples:

10 = 10 feet

15 = 15 feet

Options for Inlet/Outlet:

SS = #28 Socket Elbow on Both Ends

SST = #28 Socket Elbow on One End
and #28 Socket Elbow w/ TC on
the Other End

QST = #28 Socket Elbow on One End
and 3/8" Full Flow QC Elbow
w/ TC on the Other End

F6S = #28 Socket Elbow on One End
and 3/8" Full Flow QC Elbow on the
Other End

METHOD 17

SPLIT UMBILICAL

LEGEND

US17- -

Length (in Feet):

30 = 30 ft.

60 = 60 ft.

90 = 90 ft.

NOTE: Alternative Lengths

Up to 300 ft. Available by Request

Passthrough Power Input:

BLANK = 4 Pin Amphenol (END OF LIFE)
(Size 14S Shell - Female/97 Series)

NP = No Power Connection

A = 5 Pin Amphenol
(Size 14S Shell - Male/97 Series)

B = 5 Pin Amphenol
(Size 14 Shell - Bayonet Style/PT Series)

C = 5 Pin Amphenol
(Size 16S Shell - Male/97 Series)

D = 4 Pin Amphenol
(Size 14S Shell - Male/97 Series)

Split Length (in Feet):

10 = 10 ft. (Standard)

15 = 15 ft.

20 = 20 ft.

NOTE: Alternative Lengths Available by Request

Optional Pitot Connections:

BLANK = Standard (1/4" Male
and 1/4" Female QC)

QS6 = 3/8" Male and 3/8" Female QC

QS6/4 = 1/4" Male and 3/8" Female QC

Power Output:

U515 = Junction Box 120V (5-15R) (Domestic)

UC13 = Junction Box 120V/240V