



Keika Ventures

## **STACK SAMPLING EQUIPMENT SPECIFICATIONS**

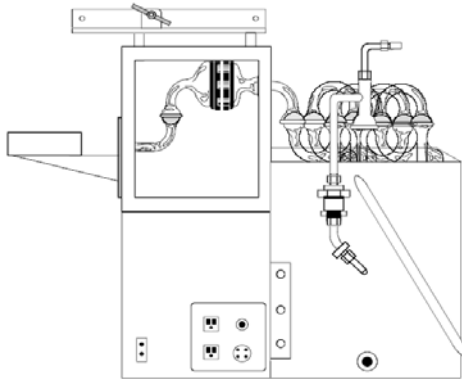
### **ISOKINETIC STACK SAMPLING SYSTEM:**

#### **Isokinetic Source Sampling Console with Open Frame Pump**

- Calibrated Direct Reading Metric Unit Dry Gas Meter, 0.5 Liter (0.0005 M<sub>3</sub>) Resolution;
- $Y = 1.0 \pm 0.05$  (Variation less than 2%);  $\Delta H@ = 46.736 \pm 3.81$  (Variation less than 5.08)
- Dual Inclined Manometer, 254mm Vertical Scale, 25.4mm Incline, 0.1mm Incline
- Resolution, Positive Brass Shutoff Valves for Transport
- Individual Solid State Temperature Controllers for Probe and Filter Oven Circuits
- LED Centigrade/Fahrenheit Temperature Readout with 7-Station Selector Switch
- Auxiliary Thermocouple Jack for Handheld Temperature Readout
- Power, Pump, Timer, Null Solenoids and Orsat Pump Switch Controls
- Individually Fused Circuitry Located on Easily Accessible Panel
- Resettable Elapsed Digital Timer Readable to 0.01 min.
- Coarse and Fine Flow Control Valves
- 1/2" Sample Line, 3/8" Pitot Line and 1/4" Orsat Line Quick Connect Fittings
- 0-30"Hg Vacuum Gauge
- Modular Electrical and Plumbing Panels and Removable Front and Rear Access Doors
- Lightweight 0.090" Aluminum Housing, Stainless Steel Latches, Handle and Hardware
- 110V/60Hz or 220VAC/50/60Hz Power Supply, 4-pin Amphenol Military Style Power Supply Connector
- Leak Free External Fiber Vane Vacuum Pump in Open Frame Housing,
- 88LPM @ 1"Hg, 57 LPM @ 15"Hg, 26"Hg Maximum Vacuum

### **Modular Sample Case with Heated Filter Box and Insulated Impinger Box**

- Aluminum Housing with Stainless Steel Latches and Hardware Holds 3" or 4" Nominal
- Filter Assemblies
- Removable Stainless Steel Probe Support Clamp
- Type K Thermocouple Jack
- Modular Electrical & Heater Panel, 700 Watt Heater, 110V/60Hz or 220V/50Hz
- Removable Aluminum Faced ½" Fiberglass Insulation Panels
- Stainless Steel Slide and Locking Hardware for 3 Sizes of Cold Box (4-6, 6-8, or 8-12 Impinger Sizes)

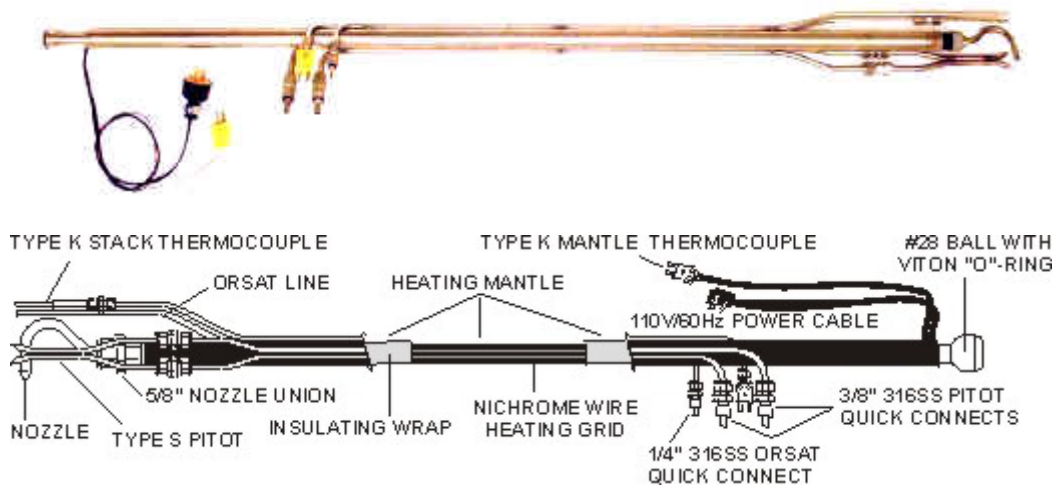


### **Umbilical Cable**

- Flexible Construction with Abrasion Resistant Low Friction Overbraid
- One High Vacuum Sample Line (300 psi) with ½" Quick Connect Couplings, Three Kink
- Resistant Vinyl Pressure Lines with Quick Connect Couplings, Five Thermocouple
- Lines, One Five-Conductor Power Cable with 4-Pin Military Style Amphenol
- Connectors, Full Length Nylon Strain Relief Cable

### Isokinetic Sampling Probe

- Corrosion Resistant Stainless Steel, Welded Construction
- Available in High Temperature Inconel Alloy 600
- Orsat Line with 1/4" QC, Pitot Lines with 3/8" QCs and Removable Pitot Tip, Stack and Probe Type K Thermocouples, Removable 110VAC or 220VAC Heating Mantle, Removable Liners Available in Pyrex, Stainless Steel, Quartz and Inconel Alloy 600



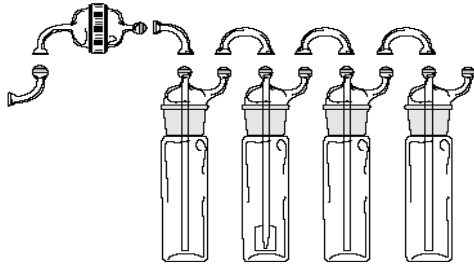
### Isokinetic Sampling Nozzle Sets

- 7 Sizes from 1/8" (3.175mm) to 1/2" (12.7mm) in Foam-Lined Case
- Available in Pyrex, Stainless Steel, Quartz and Inconel Alloy 600



## Glassware

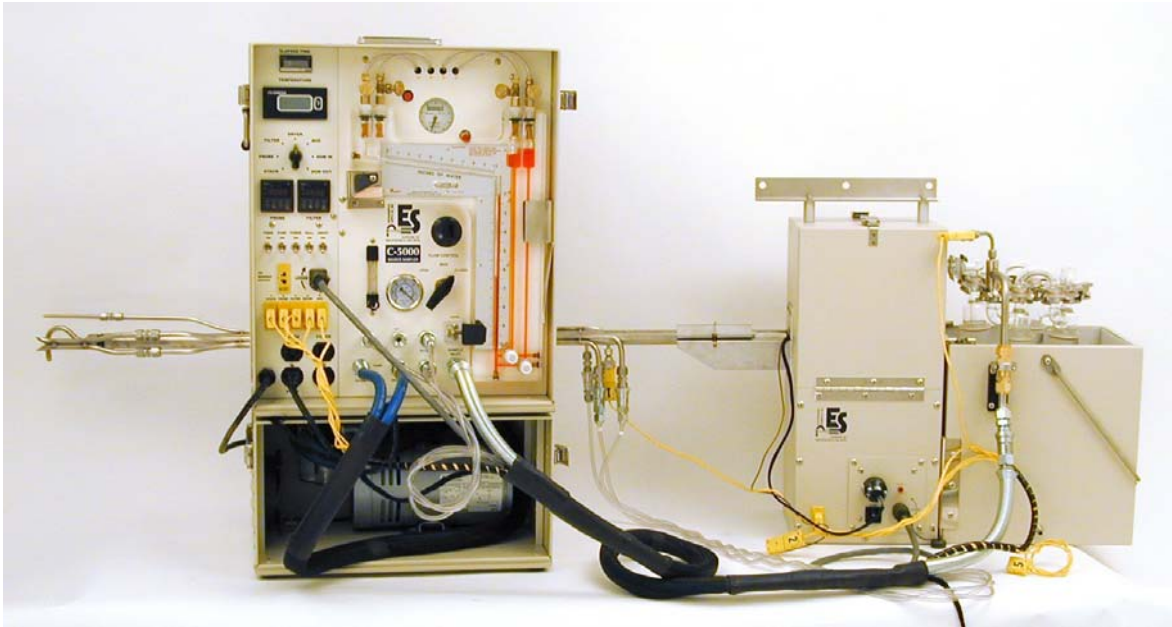
- Available **Heavy Wall Borosilicate Glass with Precision Ground #28 Ball with O-Ring and Socket Connections**, Leak-Free Performance With or Without O-Rings
- Standard 82.6mm Filter Assemblies with PTFE Filter Support Frit and Rapid Assembly/Release Clamp Ring Assembly, Eliminates Need for Filter Tripod





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## Method 5 Basic STACK SAMPLING System



### **M5-S1-MV**

C-5100-X  
M5-SC6  
PRA-S5  
PRL-P5  
UC-25  
M5-UA  
PRNS-S  
GSBO-3  
GF3-107  
M5-CK7  
M5-SRN  
M5-SRS-5

1	Metric Console with Open Frame Pump
1	Modular Sample Case
1	Heated SS Lined Probe Assembly, 5' Effective
2	Pyrex Probe Liner, 5' Effective, #28 Ball with O-ring
1	Umbilical Cable, 25'
1	Umbilical Adapter
1	SS Nozzle Set of 7 Sizes, 1/8" - 1/2"
1	Single Glassware Set, Precision Ground Ball Joint, O-ring
1	Glass Fiber Filters, Box of 100
4	Probe Brush Extension Rod, 18"
1	Slide Rule Nomograph
2	Suspension Rail System

### **Basic Method 5 Sampling System, Metric, 220V, consists of:**

**Calibration**

**CO-QC8-B-Set**      1      Critical Orifice Set of 5 Calibrated Orifices with 1/2" QC Stem, Brass, cal report, spreadsheet diskette, foam-lined case

**Sample Recovery**

M5-CK      Method 5 Cleanup Kit, includes:  
M5-CK1      2      Cleankit Glass Funnel  
M5-CK2      1      Cleankit Plastic Funnel  
M5-CK3      1      Cleankit Impinger Brush  
M5-CK4      2      Cleankit 1000ml Polypropylene Bottle  
M5-CK7      1      Cleankit 12" Probe Brush  
M5-CK5      5      Cleankit 18" Probe Brush  
M5-CK-NBSET      1      Cleankit Nozzle Brush Set, 1/2", 3/16", 5/16"  
M5-CK8      1      Cleankit Spatula  
M5-CK9      1      Cleankit Tweezers  
M5-CK12      1      Cleankit Carrying Case, Foam-Lined