



WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

▷ **XC-523**

**IMPERIAL SAMPLING CONSOLE**  
**ISOKINETIC SOURCE SAMPLER**

The **XC-523 Console** is a full-featured, compact, and lightweight Isokinetic Source Sampler. It has all the great features you want and the reliability you need. Field set up is easy with non-reversible external pump connections and the industry standard 5-pin electrical connector.

The console allows operators to monitor gas velocities, temperatures, pressures, and sample flow rates for maintaining isokinetic sampling conditions.

The **XC-523** displays imperial units. For metrics, please view our **XC-572** model.

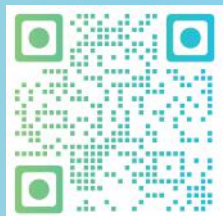


**Model XC-523**

The reliable console every isokinetic source sampler needs.

## Features

- Precision gas meter with orifice
- Rugged and lightweight roto-molded linear low-density polyethylene (LLDPE/LMDE) case with two molded-in ergonomic carrying handles
- Low-cost manual console
- Easy operation and maintenance
- Rugged, lightweight, stackable case
- Removable 19-inch front panel
- Carry strap for easy transport
- Non-reversible sample pump connections
- Color-coded thermocouple jacks
- Bright, easy-to-read temperature displays
- Easy-leveling dual-column manometer
- Stainless-steel quick connects and fittings
- Convenient layout for manual data recording





## ▶ XC-523

### IMPERIAL SAMPLING CONSOLE ISOKINETIC SOURCE SAMPLER

2. Temperature Display

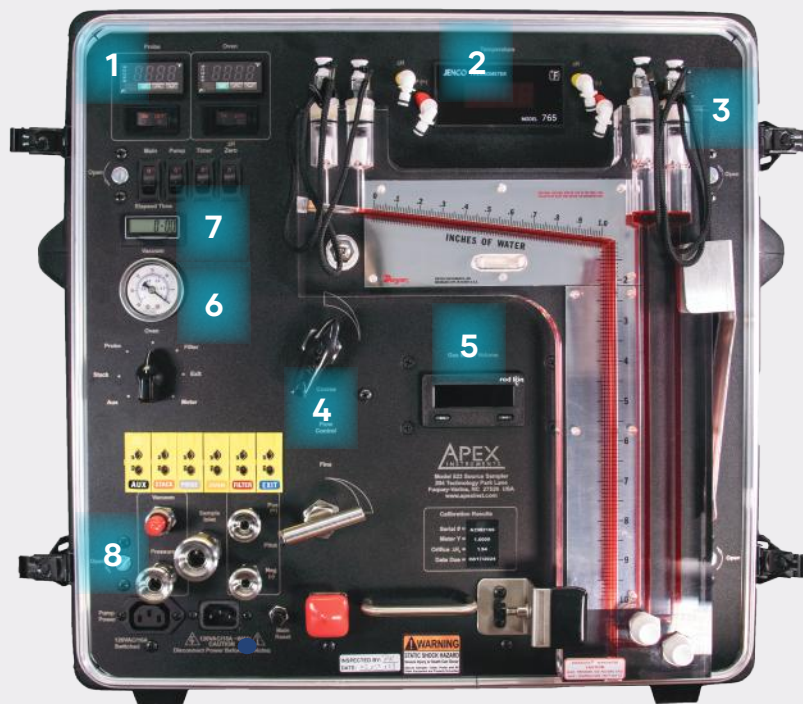
3. Dual Column Manometer

1. Temperature  
Controllers

4. Control Valve

8. Quick Connects

5. Dry Gas Meter  
(DGM)



7. Rocker Switches & Timer

6. Vacuum Gauge

## Specifications

**Digital Dry Gas Meter:** Model SK25EX-100B, Multi-chamber positive displacement, Qmax: for air 4.1m<sup>3</sup>/h at 220 Pa, Qmin: 0.26 L/min resolution 0.002 Liter, Cyclic volume: 0.7L, 41 LPM max, 400 pulses per revolution, Accuracy: 1.5% at volumes greater than 10 liters, Type-K thermocouple for exit temperature

**Manometer:** Inclined/Vertical manometer for determining stack velocity and sample flow rate, Inclined range of 0-1 inch H<sub>2</sub>O with a resolution of 0.01 inch H<sub>2</sub>O, Vertical range of 1-10 inch H<sub>2</sub>O with .2 inch H<sub>2</sub>O divisions, Fabricated from solid acrylic, precision-bored, accurate to +/- 1%, Convenient self-sealing chrome plated brass quick connects with Viton O-rings, Supplied with plastic plugs for a positive secondary seal

**Temperature Display:** Panel mount digital thermometer, Bright red LED display, Type-K thermocouple with Range -157°F to 1999°F, Separate 7 channel selector switch

**Temperature Controllers For Probe and Oven:** Fuji PXR3 compact, Programmable thermocouple type, Range 32°F to 2192°F, Digital setting by 3 keys with lock function, NEMA 4X/IP66 equivalent waterproof faceplate, Large red 4-digit LED display, Alarm output capable

**Vacuum Gauge:** dual-scale, 0-30inHg / 0-100kPa

**Sample Pump Connections:** 3/8 inch non-reversible, stainless steel quick connects

**Umbilical Connections:**

- Sample inlet: 1/2 inch stainless steel quick connect
- Pitot lines: 1/4 inch stainless steel quick connect
- Electrical: 5 Pin female bayonet PT series amphenol circular connector
- Thermocouples: quantity 6 type-K inputs, standard size

**Power:** 120VAC at 60Hz standard (240VAC at 50Hz optional), IEC C14 male receptacle

**Dimensions:** 23" x 21" x 12" (58cm x 53cm x 30cm), 19 inch panel

**Weight:** 40 lbs (18kg)