

Escort® LC Sampling Pump

- Watertight case for occasional water spray.
- Inlet filter traps particulate matter; optional filter to trap moisture.
- Stainless steel-filled ABS plastic case for RFI/EMI protection.
- Belt clip allows pump to be worn at the waist.
- Weighs only 19 ounces.
- Separate LEDs indicate pump operation and low battery.
- Charging jack port is located on the battery pack.
- Exceptionally quiet operation.
- Low-battery indicator.
- Economically priced.
- Intrinsically safe.



Competitive Advantages

- Ideal for lead and asbestos abatement sampling.
- Exceptionally compact, lightweight and quiet in operation.
- Unit can be exposed to water spray while operating.
- Stainless steel-filled plastic case protects against electromagnetic (EMI) or radio-frequency interference (RFI).
- Two controls - an ON/OFF key and a flow-rate potentiometer behind tamper-resistant cover helps to prevent unauthorized access to control functions.
- Three-gasket seal makes unit resistant to water spray and dust.
- One-way valve allows pump exhaust to vent and to prevent water entry.
- Full eight-hour shift of operation before charging is necessary.

Approvals and Standards

Escort LC Sampling Pumps are classified by UL as intrinsically safe for use in hazardous locations – Class I, Groups A, B, C and D; Class II, Groups E, F and G; and Class III, Division I locations.

Escort LC Specifications

Operating Flow Control

Volumetric flow rate held within $\pm 10\%$ of set point over entire operating range, with automatic compensation for battery voltage, temperature and sample load changes of 10 inches of water.

Flow Rate

Flow rate adjustable between 0.5 and 3 lpm.

Operating Range

5-25 inches of water load up to 2 lpm;
5-20 inches up to 2.5 lpm with 20-inch water load.

Operating Temperature Limits

30°-113°F (0°-45°C); while charging,
50°-86°F (10°-30°C)

Physical Weight

19 oz. (550 g), with battery pack.

Dimensions

2.25" D at 4.25" H x 4" W
(5.7 cm x 10.8 cm x 10.2 cm), with battery pack.

Power Supply

4.8-volt battery pack of four nickel cadmium cells.

Battery Pack Capacity

1.8 ampere hour.

Power Supply

Battery Pack Recharge Time

14-16 hours (overnight) with Omega™ Charger.

Typical Battery Pack Life

300 or more charging cycles

Distributed by:



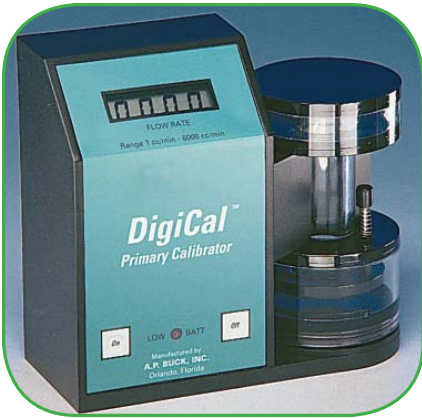
Sampling Equipment Specialists

Escort® Pump Accessories

CALIBRATION DEVICES

The calibration of a sampling pump is critical to the quality of samples taken. Calibration determines that the flow rate of air through the pump is accurate, within specified limits, usually $\pm 5\%$. A primary calibration device, the DigiCal™ Calibrator provides instantaneous calibration for instruments like the Zefon Escort LC Pump or the secondary flow standard inside the Escort ELF Sampling Pumps.

Just press the plunger and the DigiCal Calibrator does the work. Its unique flow cell replaces conventional bubble tubes and makes calibration easier. The DigiCal Calibrator achieves extreme accuracy by utilizing a computerized flow meter that provides instantaneous flow readouts on a digital display. Accurate measurements are possible within $\pm 0.5\%$ at any altitude.



Single Pump Kits

| Part Number | Description |
|-----------------|---|
| P1-ESLC-0-1-0-0 | Escort LC Pump with sampling line. No charger. |
| 711400 | Escort LC Pump with 120v charger and sampling line. |

Battery Chargers

| Part Number | Description |
|-------------|-----------------------------|
| 495965 | Single Battery Charger 230v |

5-Pack Pump Kits

| Part Number | Description |
|-----------------|--|
| P5-ESLC-1-1-0-0 | Escort LC Pump with 5 station 120/240v, 50/60Hz charger and sampling line. |

Sorbent Tube Sampling

| Part Number | Description |
|-------------|--|
| 497697 | Gemini® Twin Port Sampling Kit — includes: Gemini Sampler, tube protectors, Y-connectors, clips and carrying case. |
| ZST-001 | Charcoal Sampling Tubes (50/100mg), 6 x 70mm, 50 tubes |

Cassette Sampling

| Part Number | Description |
|-------------|--|
| Z008BA | Plain White MCE, 0.8 μ , 25mm W/ Static Conductive Cowl for Asbestos, 50/box |
| 738MCE | MCE, 0.8 μ , 3-Piece, 50/box |

Calibration

| Part Number | Description |
|-------------|-----------------------------------|
| 655101 | Digital-5 Primary Flow Calibrator |

Escort, Gemini and DigiCal are trademarks of Zefon International.



Gemini® Twin-Port Sampler

For low-flow control when sorbent tubes are used, the patented Gemini Twin-Port Sampler is a valved mechanism that allows flow adjustment down to 1 mlpm (0.001 lpm to 600 mlpm total between both tubes). U.S. Patent No. 5,370,004. As an added benefit, the Gemini accessory permits simultaneous sampling from sorbent tubes, with independently controlled flow rates of each. Dual sampling means two like sorbent tubes can be

attached for simultaneous sampling at different flow rates, or two different tubes can be used to sample two types of substances at once.



Zefon offers a complete line of PCM and TEM 25mm static conductive air sampling cassettes designed and manufactured to meet all applicable NIOSH, AHERA, OSHA, and EPA standards. The cassette housings are manufactured in-house from high quality polypropylene and are individually assembled and preloaded under stringent quality control standards. Once assembled, each cassette is individually tested prior to packaging for shipment. Random lot sample testing is performed daily by an independent laboratory to ensure compliance with asbestos regulations. Laboratory results are available upon request. Each cassette is banded and marked with a serial number and bar code.