



FIELD ENVIRONMENTAL INSTRUMENTS, INC.

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MSA Escort ELF Pump

Escort ELF Specifications

Operating Flow Control

Volumetric flow rate held within $\pm 2.5\%$ of set-point over the 1-to-3 lpm operating range ($\pm 5\%$ to 0.5 lpm), with automatic compensation for battery voltage, altitude, temperature and sample load changes.

Flow Rate

Flow rate adjustable between 0.5 and 3 lpm; lower flow rates attainable (to 1 mlpm) with optional Gemini Twin-Port Sampling accessory.

Flow Indication

Liquid Crystal Display provides 0.01 lpm resolution.

Operating Range

30 inches of water load up to 2 lpm and 10 inches up to 3 lpm.

Dimensions

2" D x 4" H x 3 1/8" W
(5.1 cm x 10.3 cm x 9.8 cm), with battery pack.

Battery Pack Capacity

1.8 amp hours

Typical Battery Pack Life

300 or more charging cycles

Flow Blockage Detection

Flow-Fault LED comes on immediately when block is detected. Pump shuts down within 90 seconds if block is not cleared.

Elapsed Time Readout

To 999 minutes in increments of 1 minute. Holds the last reading after either flow blockage or low battery shutdown and when pump is off or in hold mode.

Operating Time

Varies with flow rate and sampling device loading.

Operating Temperature Limits

32°-113°F (0°-45°C)

Physical Weight

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

Power Supply

4.8-volt battery pack of four nickel cadmium cells.

Battery Pack Recharge Time

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



Approvals

Escort ELF Sampling Pumps are UL approved as intrinsically safe for use in hazardous locations – Class I, Groups A, B, C, D; Class II, Groups E, F, and G; and Class III, Division I locations. NIOSH certified for coal mine dust sampling (TC-74-030). MSHA certified as intrinsically safe for underground use (Approval No. 2G-3924-1). Also Pennsylvania DEP, LOM 04ATEX2132.