

# Rocket Pump<sup>®</sup>

Programmable Low Flow Pump



**12-hour run time  
with NiMH battery**



# Pocket Pump<sup>®</sup>

## Programmable Low Flow Pump

### The 3-button Keypad Does It All

Use the three buttons under the sliding cover to program the pump. Set the flow rate in constant flow mode for single sorbent tube applications, or set the back pressure in constant pressure mode for multiple sorbent tube applications. The Pocket Pump accommodates flow ranges for most sorbent tube and long-duration detector tube methods. Users may also select the temperature and pressure scale. To execute any command that would change the operating mode or a sampling parameter, a security code is required that minimizes tampering and maintains sample validity. The Pocket Pump may be placed in a HOLD state at any time without loss of data.

The Pocket Pump operates in either constant flow or constant pressure (multiple tube sampling) mode with flows from 20 to 225 ml/min. Operation is programmed using the 3-button keypad or a personal computer through the interface module.

The Pocket Pump's built-in security code system prevents a worker from changing operating states or sample parameters, thus ensuring sample validity. Also, multiple keys must be pressed to place the unit into a HOLD state; accidentally pressing one button will not alter the operating state.

### Direct Readout of Data

The large easy-to-read LCD shows direct readouts of sample data that is continuously updated and may be displayed during sampling. Simply press a key to scroll through the sample data that includes flow rate, air volume, temperature of the incoming air, and sample time. The LCD constantly displays a battery status icon, and a flashing flow fault icon appears when flow is restricted or blocked.

### Pump-controlled Charging

Never worry about overcharging again. Since advanced electronics are built into the pump and not the charger, the smart charging battery system knows how much charging the pump needs; it never overcharges. The batteries may be charged with the battery charger while the pump is running. The Pocket Pump may operate indefinitely with the AC charger/adaptor without harm to the battery pack.

The battery charge status icon is constantly displayed. When the pump loses all charge, it enters the SLEEP mode while preserving the historical data in memory. When fully charged, the internal NiMH cells provide 12 hours of continuous use at 200 ml/min with back pressure at 10 inches of water. Run times vary with media used.

### PC Programmable with DataTrac<sup>®</sup> Software

Use DataTrac<sup>®</sup> Software (optional accessory) and your personal computer to make the Pocket Pump PC programmable. DataTrac simplifies chain-of-custody reporting by allowing users to program up to 14 complete running sequences including delayed start, timed stop, and intermittent sampling, all at different flow rates. Pump settings can be changed with the click of a mouse button. DataTrac's Real-time Monitor window displays a real-time readout of the Pocket Pump's operations including time and sample volume. Lengthy calculations are unnecessary; DataTrac does it all for you. The advanced information retrieval system is specifically designed to store data and provide chain-of-custody information. DataTrac also stores historical data in pump memory that can be retrieved up to 24 hours after shutdown.

- Program the flow rate, start and stop date, and sample duration.
- Schedule multiple start and stop times.
- Create a sample setup sheet for worker, sample, and analysis information.
- Download historical records of flow rate, sample time, air volume, temperature, and more.
- Print or save a complete report of sample and pump history information.

*DataTrac Software – Pump Scheduler Window*

*Simply click to change the pump settings*

*Create a sample sheet for worker and sample information.*

# Advanced Technology in the Smallest Air Sampling Pump

- **Constant flows from 20 to 225 ml/min**
  - Accommodates most flow rates for sorbent tubes and long-duration detector tubes
- **Compact and lightweight**
  - Only 4.5 x 2.2 x 1.4 inches (11.4 x 5.6 x 3.6 cm) and 5 ounces (142 gm)
  - Easily fits into a shirt pocket or clips on a belt without protruding
- **Ultra-quiet operation**
  - For greater worker acceptance
- **Two operating modes**
  - Constant flow (single tube)
  - Constant pressure (multiple tube) with accessories saves time and uses fewer pumps
- **PC-programmable with DataTrac Software**
  - With optional DataTrac Software, program delayed, intermittent, and repeated sampling
  - Download data to PC
- **Electronic flow control — no tools required**
  - Simple 3-button keypad does it all
- **Continuous sample volume calculations**
  - Sampling parameters are continuously updated
- **RFI/EMI-shielded and CE marked**
- **Extended run time with NiMH battery**
  - Samples over 12 hours on one battery charge
- **Large easy-to-read LCD**
  - Easily view sampling parameters and battery and fault status, all at the touch of a button
- **Pump-controlled charging**
  - Never overcharges
  - Built-in system automatically switches to trickle charge to prolong battery life and prevent damage
- **Continuous run capability with AC adapter**
  - Useful for environmental monitoring or round-the-clock sampling without harm to the battery pack
- **Security code system protects data**
  - Requires code before changing operating parameters
  - Minimizes accidental changes and worker tampering
- **Impact-resistant case**
  - Rugged case withstands rough handling in the industrial workplace
- **Intrinsically safe**
  - UL and cUL Listed
  - ATEX approved model available (NiCad battery model only)



# Rocket Pump®

Pocket Pump shown actual size with keypad cover open

## Performance Profile— Pocket Pump

Flow range in constant flow mode:	20 to 225 ml/min	Run time:	12 hours at 200 ml/min, 10 inches water back pressure; Indefinite when connected to charger
Accuracy variance between liquid crystal display reading and actual flow rate (noncalibrated):	20 to 225 ml/min $\pm$ 5%	Timer display range:	1 to 9999 minutes
Constant flow compensation:	$\pm$ 5% of flow reading up to 20 inches water	Timing accuracy:	$\pm$ 1%
Pressure range in constant pressure (multiple tube sampling) mode:	1 to 10 inches water (1.87 to 18.7 mm Hg) at a maximum of 200 ml/min flow rate for a 12-hr run time with NiMH 10 to 20 inches water (18.7 to 37.4 mm Hg) at a maximum of 100 ml/min flow rate for a 12-hr run time with NiMH	Flow fault:	If flow is restricted, pump stops and holds historical data. Auto-restart attempted every 5 minutes.
Constant pressure (multiple tube sampling) mode accuracy:	Pressure reading $\pm$ 0.5 inches of water (0.25 mm Hg)	Battery pack:	Built-in rechargeable nickel metal hydride battery pack, 2.4 V x 1 Ah
Temperature range:	Operating 20 to 110 F (-7 to 43 C) Charging 40 to 100 F (5 to 38 C) Storage -40 to 113 F (-40 to 45 C)	Size:	4.5 x 2.2 x 1.4 inches (11.4 x 5.6 x 3.6 cm)
		Weight:	5 oz (142 gm)
		Case:	Impact-resistant stainless steel with ABS/polycarbonate
		RFI/EMI shielding:	RFI/EMI-shielded case, CE marked
		Intrinsically Safe:	UL and cUL Listed ATEX approved model available (NiCad battery model only). Contact SKC.

## Ordering Information

### Pocket Pump with NiMH Battery and Charger

115 V ..... Catalog No. 210-1000MH  
230 V ..... Catalog No. 210-1001MH

### Single Pocket Pump Kit

*Includes Pocket Pump with NiMH battery, single station charger, and Type A sample tube holder all in a convenient carry case.*

115 V ..... Catalog No. 210-1000MHK  
230 V ..... Catalog No. 210-1001MHK

### 5-pack Pocket Pump Kit

*Includes 5 Pocket Pumps with NiMH batteries and Type A sample tube holders, and one 5-station charger (100 - 240 V) in a convenient carry case.*  
100-240 V ..... Catalog No. 210-1000MH5D

### DataTrac Software Package

*Includes software on CD, adapter, and cable, requires Windows® 98 or higher*  
..... Catalog No. 877-90

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distributors or assistance with direct  
shipments.