

SIDEPAK™ SP350 Personal Sampling Pump

For industrial hygienists and safety professionals who do workplace exposure sampling at higher volumes, the SIDEPAK Model SP350 personal sampling pump offers high performance battery options. Unlike conventional pumps, these pumps offer a choice of long-running NiMH or alkaline battery packs and provide precise run time information in minutes remaining.



Specifications

Flow Range		User Adjustable Values	Sample Run Time Flow Setpoint Delayed Start Key Pad Lock
Constant Flow	500 to 4,000 cc/min	Recorded Values	Total Sample Time
Constant Pressure†	20 to 800 cc/min		
Flow Control		Temperature Range	
Back EMF	±5% of constant flow setpoint	Operating Range	0 to 45°C (32 to 112°F)
Flow Performance	500 cc/min @ NA in. H ₂ O	Storage Range	-20 to 60°C (-4 to 140°F)
	Flow vs. Max.	1,000 cc/min @ 32 in. H ₂ O	
	Vacuum Pressure	1,500 cc/min @ 32 in. H ₂ O	
		2,000 cc/min @ 29 in. H ₂ O	
		2,500 cc/min @ 25 in. H ₂ O	
		3,000 cc/min @ 19 in. H ₂ O	
		3,500 cc/min @ 13 in. H ₂ O	
	4,000 cc/min @ 7 in. H ₂ O		
	4,250 cc/min @ 4 in. H ₂ O		
	4,500 cc/min @ 0 in. H ₂ O		
Flow Fault	If flow is blocked and drops by more than 3% for more than 20 seconds, the pump stops and retains all sample data. Auto-restart is attempted after 40 seconds up to 10 times.	Physical	
Flow Indicator LCD	Adjust Flow Menu Screen, range 0.0 to 99.9%	External Dimensions	106 mm × 92 mm × 70 mm (4.2 in. × 3.7 in. × 2.8 in.) with 801724 or 801729 battery 130 mm × 92 mm × 70 mm (5.1 in. × 3.7 in. × 2.8 in.) with 801708, 801722, 801728 or 801736 battery
		Weight	0.46 kg (16 oz) with 801724 or 801729 battery 0.54 kg (19 oz) with 801708, 801722, 801728 or 801736 battery
Inlet Pulsation Ratio	9% @ 2.0 lpm w/GF filter	Display	2 line × 12 character LCD
		Tripod Socket	1/4–20 female thread
		Power Supply/Charger (P/N 2613210)	
		Input Voltage Range	100 to 240 VAC, 50 to 60 Hz
		Output Voltage	9 VDC @ 1.0 A

Battery Information

Battery Option	Charge Time*	Safety Rated
1650 mAH NiMH Pack (P/N 801724 or 801729)	3.5 hours	Yes**
2700 mAH NiMH Pack (P/N 801722 or 801728)	5.5 hours	Yes**
6-Cell AA-size Pack (P/N 801708 or 801736)	N/A	No

Battery Level Indicator

The Smart Battery Management System™ utilizes a built-in “gauge” in the SIDEPAK battery packs. The gauge monitors battery capacity and calculates run time information by dividing capacity of the battery (mAH) by the instantaneous current consumed by the instrument (mA). This calculation is correct for current operating conditions and can change due to current (mA) consumption or changes in battery capacity.

Battery Life Performance (estimated hours)

Battery Option	Back Pressure (inches H ₂ O)	Flow Rate cc/minute (Constant Flow Mode)			
		1000	2000	3000	4000
1650 mAH	5	11	9.5	9	8
	10	8.5	8	7	NA
	15	7.5	6.5	5	NA
2700 mAH	5	18	16.5	14	13
	10	13.5	12.5	11	NA
	15	11	10	6	NA
AA-size battery pack***	5	31.5	22.5	20	17.5
	10	19.5	19	17	NA
	15	18	14.5	13	NA

Approvals

Intrinsic Safety Rating Information**

TSI Battery Pack P/Ns: 801722, 801724, 801728 or 801729
INTRINSICALLY SAFE CSA

Exia

Class I Groups A, B, C, D

Class II Groups E, F, G

Class III

T2A with 801724 or 801729

T2C with 801722 or 801728

File: 200507

TSI Battery Pack P/Ns: 801708 or 801736

NOT INTRINSICALLY SAFE

Specifications are subject to change without notice.

Energizer is a registered trademark of Eveready Battery Company, Inc.

Typical Collection Media Back Pressures

Typical Collection Media	Flow Rate cc/minute (Constant Flow Mode)			
	1000	2000	3000	4000
13 mm GF	8.25	17.25	27.2	37.3
13 mm PTFE, 1.0 μ	7.0	16.0	30.0	40.0
25 mm GF	1.75	3.75	5.25	9.2
25 mm PVC, 0.5 μ	1.0	2.25	5.75	8.0
25 mm MCE, 0.8 μ	1.0	2.75	5.0	7.5
37 mm GF	1.6	3.2	4.75	6.5
37 mm Cellulose	2.0	4.3	6.75	9.25
37 mm Quartz	1.5	2.75	4.0	5.5
37 mm PVC, 0.5 μ	0.6	1.4	2.25	3.0
37 mm PTFE, 2.0 μ	1.0	2.0	3.5	4.75
37 mm MCE, 0.8 μ	2.0	4.25	7.0	10.5
37 mm MCE, 0.45 μ	3.0	6.0	9.0	12.5

Maintenance

User flow calibrations: Before and after each use

† Requires Low Flow Adapter.

* Of a fully depleted battery.

** All dust plugs and dust gaskets must be installed.

*** Using Energizer AA-size, E91 alkaline batteries.

CE 0344

Immunity EN61326-1:1997 + A11998 Clause 6

Emissions EN61326:1997 + Amendment A1:1998



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