

SIDePAK™ SP330 Personal Sampling Pump

For industrial hygienists and safety professionals who do workplace exposure sampling, the SIDePAK Model SP330 personal sampling pump offers high performance battery options. Unlike conventional pumps, this pump offers a choice of long-running NiMH or alkaline battery packs and provide precise run time information in minutes remaining.



Specifications

Flow Range		Recorded Values	Total Sample Time
Constant Flow	500 to 3,000 cc/min	Temperature Range	
Constant Pressure†	20 to 800 cc/min	Operating Range	0 to 45°C (32 to 112°F)
Flow Control		Storage Range	-20 to 60°C (-4 to 140°F)
Back EMF	±5% of constant flow setpoint	Physical	
Flow Performance	500 cc/min @ NA in. H ₂ O	External	106 mm × 92 mm × 70 mm
Flow vs. Max.	1,000 cc/min @ 55 in. H ₂ O	Dimensions	(4.2 in. × 3.7 in. × 2.8 in.)
Vacuum Pressure	1,500 cc/min @ 40 in. H ₂ O		with 801723, 801724 or 801729
	2,000 cc/min @ 28 in. H ₂ O		battery 130 mm × 92 mm × 70 mm
	2,500 cc/min @ 19 in. H ₂ O		(5.1 in. × 3.7 in. × 2.8 in.)
	3,000 cc/min @ 10 in. H ₂ O		with 801708, 801722, 801728
	3,250 cc/min @ 5 in. H ₂ O		or 801736 battery
	3,500 cc/min @ 0 in. H ₂ O	Weight	0.46 kg (16 oz) with 801723, 801724
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.		or 801729 battery
Flow Indicator	Adjust Flow Menu Screen, range 0.0 to 99.9%	Display	0.54 kg (19 oz) with 801708, 801722, 801728 or 801736 battery
Flow Indicator	LCD	Tripod Socket	2 line × 12 character LCD
Inlet Pulsation Ratio	8%@ 2.0 lpm w/GF filter		1/4–20 female thread
User Adjustable Values	Sample Run Time Flow Setpoint Delayed Start Key Pad Lock	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
1600 mAH NiMH Pack (P/N 801723)	3.0 hours	Yes**
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	2500	3000
1600 mAH	5	12.5	11.5	11	10.5
	10	10.5	9	8.5	NA
	15	9.5	8.5	7.5	NA
1650 mAH	5	13	12	11.5	11
	10	11	9.5	9	NA
	15	10	9	8	NA
2700 mAH	5	23	20.5	18	17.5
	10	17.5	16.5	15	NA
	15	14.5	13	12.5	NA
AA-size battery pack***	5	35	31	28.5	27
	10	25.5	24	21.5	NA
	15	23.5	21.5	20.5	NA

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.

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



CE 0344

Immunity EN61326-1:1997 + A11998 Clause 6
Emissions EN61326:1997 + Amendment A1:1998



TSI Incorporated

Corporate Headquarters—Tel: 651 490 2811 Toll Free: 1 800 874 2811 Fax: 651 490 3824 E-mail: answers@tsi.com

TSI China—Tel: +86 10 8260 1595 Fax: +86 10 8260 1597 E-mail: tsibeijing@tsi.com

Contact TSI or visit www.tsi.com for information on specific office locations worldwide.

For current information
www.tsi.com

