

FEATURES

MODEL	#SP8000		
PUMP DESIGN	Single diaphragm, positive displacement	TYPICAL PERFORMANCE	0.035 CFM @ 14.5 PSI (1.0 LPM @ 1 Bar)
PORTS	3/16" barb	VACUUM	18 inHg (457 mmHg)
APPROVALS	FAA approved (D0160C)	MOTOR	Permanent magnet DC
VOLTAGE RANGE	12 or 24 VDC	SIZE	1.5"W x 2.28"L x 3.7"H (38.1 x 57.9 x 93.98 mm)
POWER CONSUMPTION	Less than 1 amp	WEIGHT	0.5 lb. (227 g)
ELECTRICAL CONNECTIONS	Spade type terminals	TEMPERATURE RANGE	32° - 220° F (0° - 104° C) estimated
MAX OUTPUT PRESSURE	20 PSI (1.38 Bar)	DUTY CYCLE	1000 hours @ 100% duty cycle (Lifetime will vary depending on usage)
MAX FLOW RATE	0.14 CFM (4 LPM), 8.5 CFH (240 LPH)	MATERIALS	Pump body: Nylon FDA Diaphragm & Valves: Buna-N FDA, Viton® FDA

Series 8000 Air Pumps

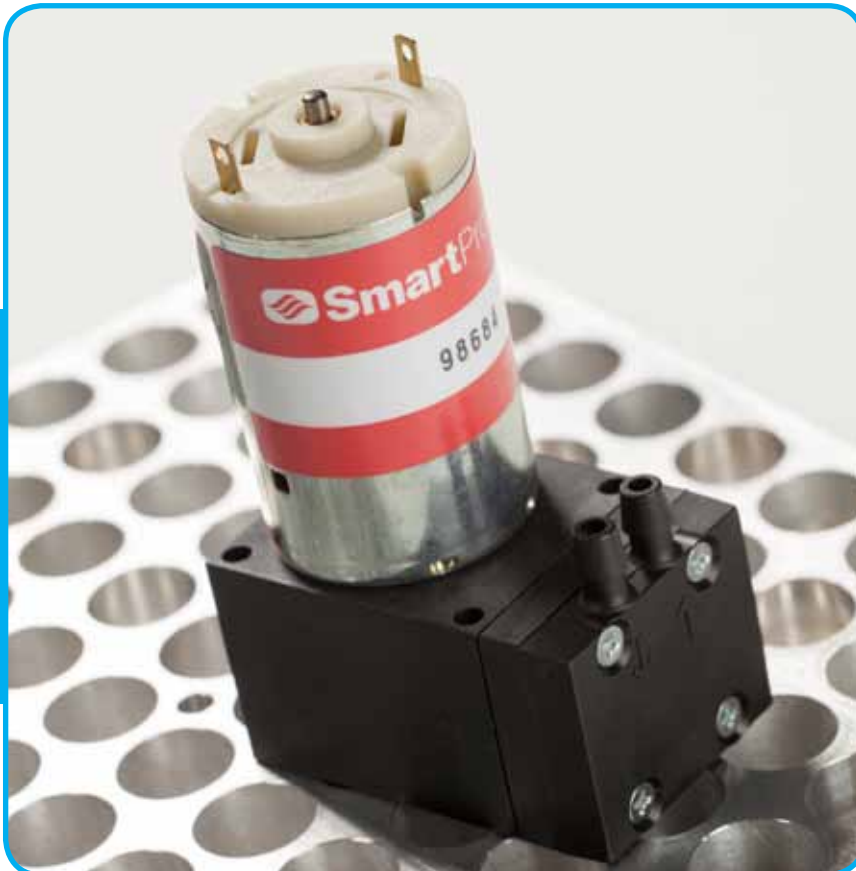
Energy-efficient, Durable, & Dependable

Series 8000 air and vacuum pump features a **single diaphragm and positive displacement – and delivers 1,000 hours of continuous duty.** Energy efficient and durable, the Series 8000 pump utilizes a long-lasting flapper valve design.

Available in a **12 or 24 voltage option**, this pump is best known for its ability to move air/gasses from an inlet and deliver it to an outlet. Customers also get an option of using a Buna-N or Viton® o-ring. The pump body is nylon with a **permanent magnet DC motor.**

Note: Our products are subject to continuous improvement. To achieve this goal, Smart Products reserves the right to change features, processes, materials, testing and other specifications as necessary. All plastic body material recommendations are based on standard corrosion resistant and compatibility guides. Smart Products strongly recommends that customers test products for each application-specific use.

Buyer is urged to test and investigate the compatibility of any substance used with our products prior to actual use. Seller will not be responsible for the failure of Buyer to thoroughly test and investigate the compatibility of the substances used with our products and the fitness of the products for its particular use or application.



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 **SmartProducts**
Engineered for success™

FEATURES

PUMP DESIGN

Rotary diaphragm, miniature, ideal for battery powered applications

PUMP BODY & RETAINER BASE

Celcon® M90 Natural

TOP COVER

ABS 757 Natural (N/A for #AP-3P04)

ELECTRICAL CONNECTIONS

Terminals extend from top of pump

PISTON

Delrin® 500 AL

DIAPHRAGM

Buna 50° A

VALVES

Suction valve in Buna 50° A, discharge valve in Buna 45-50° A

CAP

ABS 757 Natural

FUNCTION

Creates pressure for air flow

Series AP Micro Pressure Pumps

Micro Size with Maximum Durability

Compact and portable, Series AP Micro Pressure Pumps are a **great solution for battery powered applications**. They are easily mounted and provide maximum durability. This pump design features a **rotary diaphragm** and has been tested to 30,000 operating cycles.

Ideal for any industry, these pumps are unique because of their **micro size** and lower maximum pressure abilities. Please note these pumps only **create pressure for air flow**.

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OPTIONS BY MODEL

MODEL	#AP-2P01	#AP-2P02A	#AP-3P04
PORTS	3mm outlet	3mm outlet	4mm outlet
VOLTAGE RANGE	Nominal 3 VDC, 2.0 - 3.2 VDC	Nominal 3 VDC, 1.9 - 3.1 VDC	Nominal 12 VDC
POWER CONSUMPTION	Max 460 mA	Max 320 mA	Max 270 mA
NOISE	<60 dBA @10cm	<65 dBA @10cm	<55 dBA @1ft
MAX OUTPUT PRESSURE	6.76 PSI (350mmHg)	6.76 PSI (350mmHg)	11.0 PSI (570mmHg)
MAX FLOW RATE	1.48 SCFH (0.7 LPM)	0.42 SCFH (0.2 LPM)	3.18 SCFH (1.5 LPM)
PRESSURE DROP	<2 mmHg/min from 300 mmHg	<2 mmHg/min from 300 mmHg	<3 mmHg/min from 525 mmHg
SIZE	1.566"W x 0.472"L x 0.827"H (39.78 x 11.99 x 21.00 mm)	1.301"W x 0.394"L x 0.650"H (33.04 x 10.01 x 16.51 mm)	2.550"L x 1.18" Diameter (64.77 x 29.97 mm)
WEIGHT	0.55 oz. (15.5 g)	0.28 oz. (8.0 g)	2.12 oz. (60.0 g)
DUTY CYCLE	Tested to 30,000 operating cycles	Tested to 30,000 operating cycles	Tested to >80,000 operating cycles

MICRO PUMPS CREATE PRESSURE FOR AIR FLOW



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