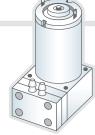
Air Pumps SERIES 8000/AP M



Engineered for success"









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| MODEL FEATURES | # SP-8000 | # AP-2P01 | # AP-2P02A | # AP-3P04 |
| Pump Design | Single diaphragm, positive displacement | Rotary diaphragm, miniature, ideal for battery powered applications | Rotary diaphragm, miniature, ideal for battery powered applications | Rotary diaphragm, miniature, ideal for battery powered applications |
| Ports | 3/16" barb | 3mm outlet | 3mm outlet | 4mm outlet |
| Approvals | FAA approved (D0160C) | N/A | N/A | N/A |
| Valves | N/A | Suction valve, discharge valve | Suction valve, discharge valve | Suction valve, discharge valve |
| Voltage Range | 12 or 24 VDC | Nominal 3 VDC, 2.0 - 3.2 VDC | Nominal 3 VDC, 1.9 - 3.1 VDC | Nominal 12 VDC |
| Power Consumption | Less than 1 amp | Max. 460 mA | Max. 320 mA | Max. 270 mA |
| Noise | N/A | < 60 dBA @10cm | < 65 dBA @10cm | < 55 dBA @1ft |
| Electrical Connections | Spade type terminals | Terminals extend from top of pump | Terminals extend from top of pump | Terminals extend from top of pump |
| Max. Output Pressure | 20 PSI (1.38 Bar) | 6.76 PSI (350mmHg) | 6.76 PSI (350mmHg) | 11.0 PSI (570mmHg) |
| Max. Flow Rate | 0.14 CFM (4 LPM), 8.5 CFH (240 LPH) | 1.48 SCFH (0.7 LPM) | 0.42 SCFH (0.2 LPM) | 3.18 SCFH (1.5 LPM) |
| Pressure Drop | N/A | <2 mmHg/min from 300 mmHg | <2 mmHg/min from 300 mmHg | <3 mmHg/min from 525 mmHg |
| Typical Performance | 0.035 CFM @ 14.5 PSI (1.0 LPM @ 1 Bar) | N/A | N/A | N/A |
| Vacuum | 18 inHg (457 mmHg) | N/A | N/A | N/A |
| Motor | Permanent Magnet DC | N/A | N/A | N/A |
| Size | 1.5"W x 2.28"L x 3.7"H (38.1 x 57.9 x 93.98 mm) | 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 | 0.5 lb. (227 g) | 0.55 oz. (15.5 g) | 0.28 oz. (8.0 g) | 2.12 oz. (60.0 g) |
| Temperature Range | 32° - 220° F (0° - 104° C) Estimated | N/A | N/A | N/A |
| Duty Cycle | 1000 hours @ 100% duty cycle* | Tested to 30,000 operating cycles | Tested to 30,000 operating cycles | Tested to >80,000 operating cycles |
| DIMENSIONS | | | | |

SERIES 8000 MATERIALS

Pump Body

Nylon FDA

Diaphragm Buna-N FDA, Viton® FDA

Valves

Buna-N FDA, Viton® FDA

AP MICRO MATERIALS

Pump Body

Celcon® M90 Natural

Retainer Base

Celcon® M90 Natural

Top Cover

ABS 757 Natural (N/A for #AP-3P01)

Piston

Delrin® 500 AL

Diaphragm Buna 50° A

Cap

ABS 757 Natural

Suction Valve

Buna 50° A

Discharge Valve Buna 45-50° A

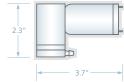
An ISO Certified Company

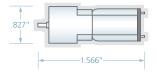
Smart Products, Inc.

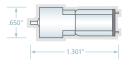
675 Jarvis Dr., Morgan Hill, CA 95037 USA ph: 408-776-3035 • fax: 408-776-3186 e-mail: sales@smartproducts.com

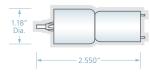
Visit us at www.smartproducts.com or call 1-800-338-0404 for more information

DIMENSIONS





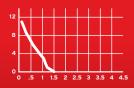


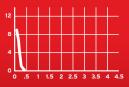


AIR FLOW CHARTS

*Lifetime will vary depending on usage









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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