

## New SmallPumps™ Diaphragm Metering Pumps

Incorporate one of these small liquid pumps into your machine or analyzing instruments for low flow fluid sampling or circulation. Integration is simple with the small size and power requirements of these unique little pumps. Operate the pump with the manual or remote controls. The remote control options integrate easily with a PLC or computer operated systems.

Select from one of two models with different flow rates. Connect tubing to the appropriate inlet or outlet and provide a Vdc power supply to begin. Low power requirements and small size are ideal for small, bench-top applications. Pump wetted parts are acetal and neoprene. ABS housing. One year warranty.

Vary flow control knob or remote 0-5Vdc signal. Motors are rated for intermittent-duty. One year warranty.



### SPECIAL FEATURES

Variable liquid flow up to 900 ml/min  
Manual or remote control  
Molded neoprene diaphragm  
Rugged plastic housing  
Suction lift up to 18 ft H<sub>2</sub>O  
Low Cost

### APPLICATIONS

Chemical metering  
Fluid circulation  
Analyzers  
Battery-operated portable samplers

Control Module Features	V1	V2	V3
Manual flow control, on/off switch	•	•	•
Remote analog start/stop		•	•
Remote flow control (0-5Vdc)			•

### SPECIFICATIONS

Max. Pressure:	See ordering table
Max. Suction:	18 ft H <sub>2</sub> O (400 mm Hg)
Port Size (OD):	5.3 mm (0.21")
Wetted Parts::	acetal, neoprene
Power Req:	12 Vdc, 500 mA
Motor Type (life):	Perm Magnet (3000 hrs)
Operating Env.:	0 to 40°C (32 to 104°F)
Remote Control:	V2 - mini phone jack; V3 - DB9 connector
Dimensions:	140 x 90 x 71 mm
(L x W x H)	5.5" x 3.5" x 2.8"
Weight:	650 g (23 oz.)
Shpg Wt:	0.9 kg (2 lb)

### PM12VC ORDERING INFORMATION

Flow ml/min	Max PSIG	Pump Part No.
200 - 510	8	PM12VX.011
450 - 900	18	PM12VX.012

### Vac Power Supply

Convert these compact drives to VAC models with a compact power supply. 5.5 OD x 2.5mm ID (center +) connector. Add the suffix to the part no. to include the power supply.

- U Power supply, 115Vac/12Vdc, 0.5mA; US Std plug.
- E Power supply, 230Vac/12Vdc, 0.5mA; Europ. plug.

### For more information contact:

**APT Instruments,**  
P.O. Box 317, Rochester, IL 62563 USA  
877.324.5444 Toll-free  
217.498.0342 \* 217.498.0352Fx  
[sales@aptinstruments.com](mailto:sales@aptinstruments.com)  
[www.aptinstruments.com](http://www.aptinstruments.com)