

BOXER

1K Series Diaphragm Pump

Gas Flow Rate to 1.8 l/m

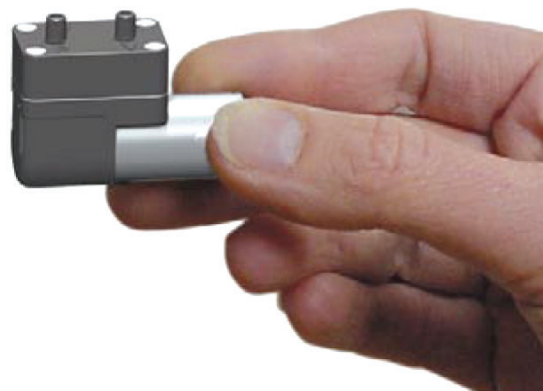
DESCRIPTION

1K series pumps are designed for gas sampling applications and, like all other pumps in the Boxer range, can be customized to meet specific requirements.

The pumps have an outstanding flow to size ratio, and run at only 3000 rpm, ensuring long life.

The 1K series is currently the smallest miniature diaphragm pump in the Boxer range. The components are produced in a wide variety of materials providing compatibility with a wide range of applications.

This series is available in iron core and coreless motor options.



SPECIFICATIONS

GENERAL

Free Flow: 1.8 l/m

Max Pressure: 500 mbar (7.25 PSI)

Max Vacuum: -400 mm mercury (15.7 inches mercury)

Motor:

Iron Core- 4.5 & 6.5 VDC

Coreless- 4.0, 7.0, 9.0, 13.5, & 18 VDC

Life Expectancy Iron Core Motor- 4500 hours, subject to operating environment

Life Expectancy Coreless Motor- 12000 hours, subject to operating environment

Housing Material: PPO (Polyphenylene Oxide)

Diaphragm Material: EPDM

Valve Material: Silicone

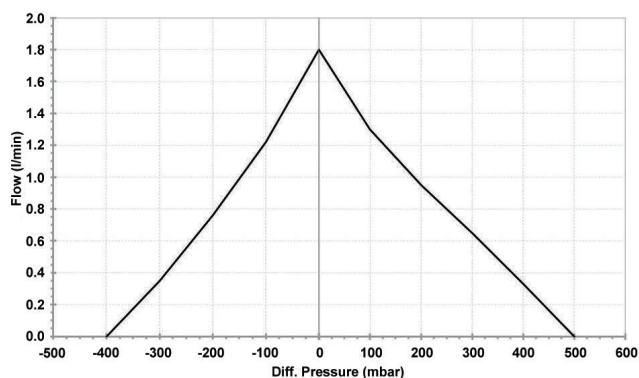
Tubing Connection: 3 mm ID tubing

Weight; 29g

ORDERING INFORMATION

Model	Motor Type	Nominal Pump Voltage (VDC)	Nominal Motor Voltage (VDC)
1002.045	Iron Core	4.5	4.5
1003.065	Iron Core	6.5	6.5
1007.001	Coreless	4	6
1007.002	Coreless	7	9
1007.003	Coreless	9	12
1007.004	Coreless	13.5	18
1007.005	Coreless	18	24
1000.8	Silicone Boot for Coreless Motors		

FLOW PERFORMANCE (AT NOMINAL PUMP VOLTAGE)



DIMENSIONS (MM)

