

■ Overview

micro diaphragm pumps and compressors are based on a simple principal, the circular power from the motor is converted into oscillating movement by an eccentric, which moves up and down its central point, this motion is then transferred to a diaphragm by means of a connecting rod, an elastic diaphragm, which in conjunction with an inlet and outlet valve creates a pumping action.

Features:

1. Highest Performance/Size Ratio

Innovative and efficient engineering designs enable the TM40A Series to push the performance envelope in a lightweight, compact size.

2. Performs Quieter

Optimized head, chamber, and flow path reduce noise without compromising performance.

3. Lasts Reliably Longer

Using the advanced diaphragm elastomer and superior brushless motor design sets the highest benchmark for service-free operation that exceeds 10,000 hours.

4. Uncontaminated flow

no contamination of the media due to oil-free operation

5. Little vibration

Because of leading edge technologies, top quality bearing, superior brushless motor

6. High level of gas tightness

Thanks to stress-optimised structured diaphragm, newly-designed valves and sealing systems, precise placement of the pump head

7. Extreme chemical resistance

The use of chemically resistant materials optional such as FFPM, PTFE, FPM or other material combinations for the parts which allows the corrosive gas to be pumped.

8. Optimal solution for your application

A wide standard range of materials, motors, voltages configures multiple components system selected

Wetted material options:

1. Optional membrane materials:

EPDM for normal air

PTFE for corrosive air, like acid, alkali air, ozone etc.

2. Optional valve materials:

EPDM for normal air

FPM for corrosive air, like acid, alkali, ozone, etc.

The versatility of our pumps allows a wide field of applications to be covered. Over many years our pumps have proved themselves in the following areas:

Industrial pressure and vacuum applications

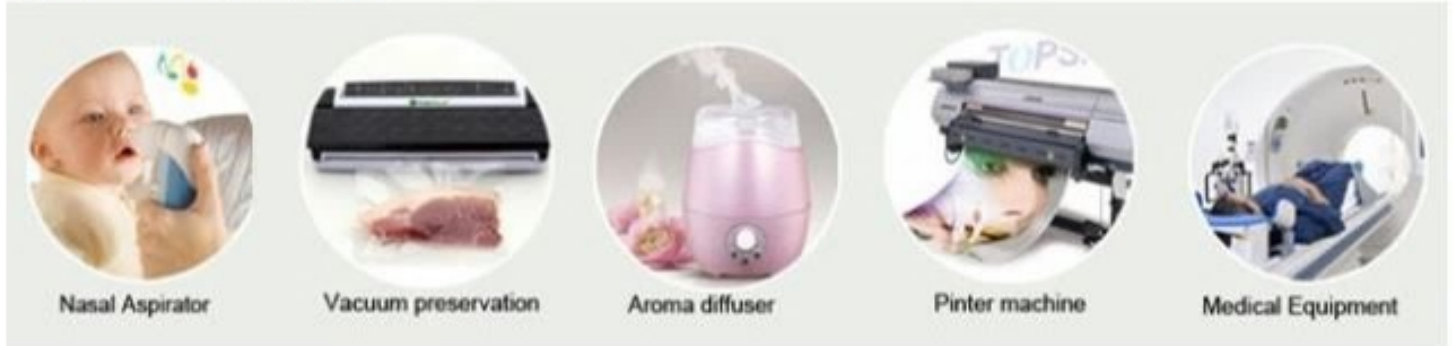
Portable Analytical Instruments

Medical Diagnostic Equipment

Air Quality Sampling Monitors

Respiration Monitors

Gas or Odor Leak Detectors



Nasal Aspirator

Vacuum preservation

Aroma diffuser

Pinter machine

Medical Equipment

■ Specifications

Items	Specification
Motor type	Brush motor
Products operating voltage range	10~14VDC
Work mode	Intermittant
Work temperature rise	< 70°C
Lifetime reference	800H
CoilInsulation class	Class F
Insulation resislance&Insulation endurance :	AC600V/1mA/1S

■ Parameter

Model	Rated Voltage(VDC)	No Load Current(A)	Max. Load Current(A)	Pressure (KPa)	Flow (L/Min)
	12	≤1.2	≤1.3	280	16

■ Curve & Dimension

P-F Performance reference curve

