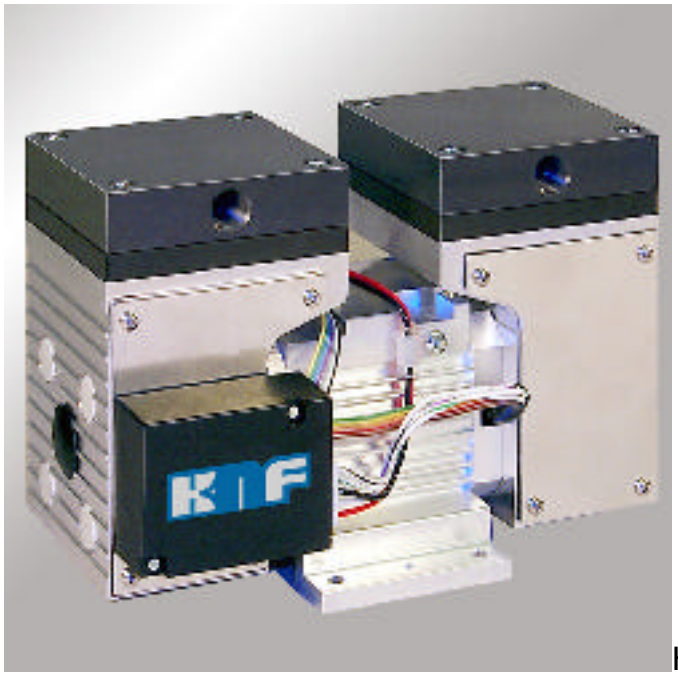
Diaphragm Vacuum Pumps Designed For Quiet, Smooth-Running Operation



KNF Type N838 diaphragm vacuum pumps for handling air and gases deliver extremely quiet and smooth-running operation in a compact package. These pumps are offered in single- and multi-stage OEM installation models powered by AC, DC, or brushless DC (BLDC) motors. Their exclusive and patented multi-port valve system and structured molded diaphragm contribute to high performance, increased flow and efficiency, and reliability in service.
The pumps can satisfy a wide range of high-capacity applications, including medical therapeutic devices and diagnostic equipment, ideal for both suction and positive pressure devices. Their closed and durable compressor housing is designed to minimize noise (and an optional silencer can be specified for applications requiring extremely quiet operation).

These N838 pumps exhibit high pneumatic capacity and can achieve flow rates up to 42 LPM per head under atmospheric conditions, ultimate vacuum of 100 mbar abs. (27 in. Hg), and maximum continuous pressure of 7.0 psig. The pumps operate oil-free to retain purity of the pumped medium.

Their patented multi-port valve system integrates a circular valve disk spanning several smaller holes (instead of one large hole) to minimize deformation from stress, resist damage from condensate, and promote enhanced flow and increased efficiency. The design of the patented FEA-designed structured molded diaphragm eliminates the metal clamping disk that can become a source for leakage or corrosion in conventional pump models.

Modular pump design offers OEMs the versatility to choose from a wide variety of

standard materials, performances, voltages, frequencies, and accessories (including noise and dust filters, hose connectors, and shock mounts) to meet particular application demands.

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