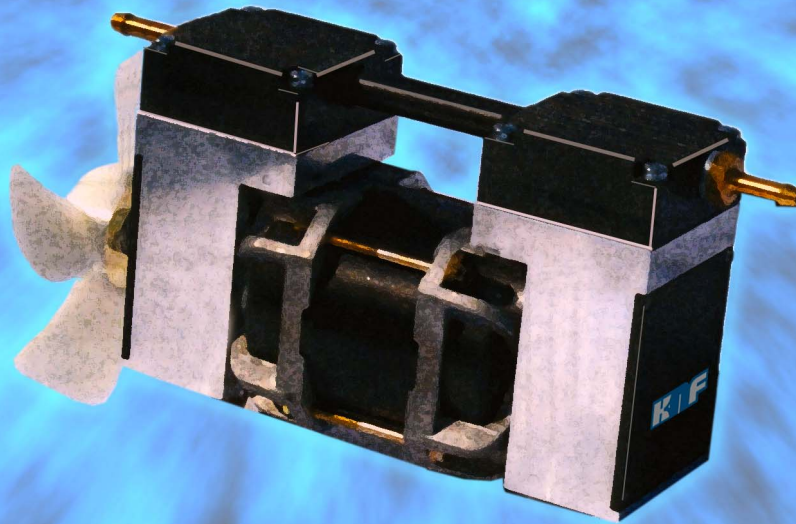


PowerDry...[®]

Autoclave Vacuum Pumps

World Class Quality
Cost-Effective Solutions
Lowest Cost of Ownership
EN13060 Experience
Pre-Sterilization & Post-Drying
Self-Cleaning Design
Compact & Powerful



KNF

Why sterilize using vacuum?

The international European CE requirement, Medical Devices Directive 93/42/EEC, and the European Standard EN 13060-1 and 13060-2 for small sterilizers, impose stringent requirements for the first-stage sterilization, and post-drying stages. During the initial stage, a vacuum is applied to the autoclave chamber to remove any air. Steam is then introduced into the chamber, the vacuum ensuring steam penetration into the smallest instrument cavity. A final, post-drying stage, again using a vacuum, provides complete instrument drying after the sterilization phase.

KNF Neuberger, drawing on extensive research in cooperation with European autoclave manufacturers, now has a complete line of diaphragm pumps specifically designed to generate the unique vacuum demands required.

KNF has field-proven vacuum pumps available NOW for use with your new steam autoclaves

The new international standards for vacuum autoclaves is coming in 2002.

Working in cooperation with European autoclave manufacturers, KNF has established itself as a leader in diaphragm vacuum pumps for vacuum autoclaves. As a result, these pumps are available today for use with your system. KNF has successfully fitted diaphragm pumps into many European autoclave models.

Why waste precious time when comprehensive research is already complete? Contact KNF for assistance in designing your product line for the new international autoclave standards.

Why traditional vacuum sources won't do ...

- Aspirators waste precious water resources, have a high cost of ownership, and exhibit inconsistent performance.
- Saturated exhaust vapor collects within a traditional pump head and affects pump performance and lifetime.
- A deep vacuum is the most effective way to pass the EU certification test for internal sterilizing of a 1 meter length of 1 mm ID tube.
- Different classes of autoclaves have specific vacuum and pressure requirements.
- There are special design requirements for autoclaves, including stringent space and weight limitations.

KNF oil-free diaphragm vacuum pumps, designed specifically for autoclaves, feature:

- No water source or drain needed - low cost of ownership
- Premium, corrosion-resistant wetted parts
- Optimal flow characteristics for fast drying
- Special coated wetted surfaces repel condensate
- Available automatic PowerDry® system clears condensate from the pump during the vacuum process
- Available combination integrated fan cooling for steam condensation; includes PowerDry® system
- Effective vacuum performance to 7.5 Torr (10 mbar)
- Proven performance characteristics required by EN 13060-1 and 13060-2 for small sterilizers
- Simple to install within your autoclave cabinet

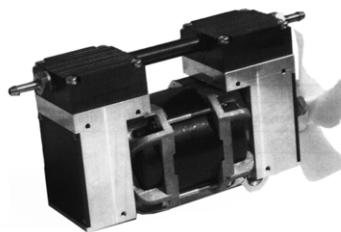
KNF already has the vacuum pump solution for you...

KNF Neuberger is already deeply involved in vacuum pump design for the steam autoclave market in Europe. We can offer you models today that are specifically designed, and proven effective for the sterilization and drying processes.

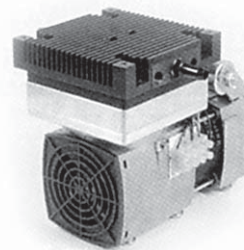
Pump Model No.	Flow LPM/CFM	Vacuum mbar/Torr	Pressure psig	Wt. kg
N816.3KPE	16/6	15/11.2	7	3
N836APE	31/1.1	80/60	7	5
N836AP.40E	31/1.1	80/60	7	5
N836AP.41E	31/1.1	80/60	7	6
N836.3APE	31/1.1	10/7.5	7	7
N836.3AP.40E	31/1.1	10/7.5	7	7
N836.3AP.41E	31/1.1	10/7.5	7	8

Features:

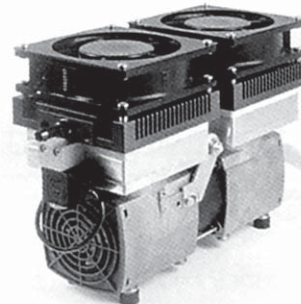
- .40 - Pump with PowerDry self-cleaning feature
- .41 - Pump with PowerDry and air-cooled heads



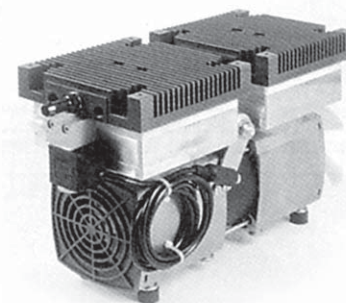
N816.3KPE Basic model



N836APE Basic model



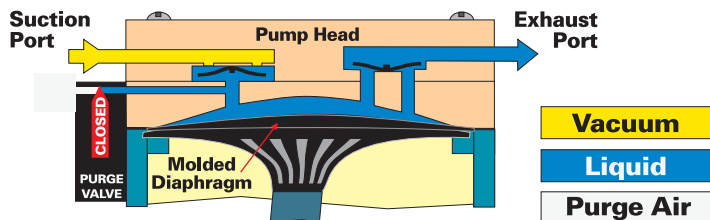
N836.3AP.41E with PowerDry® and air-cooled heads



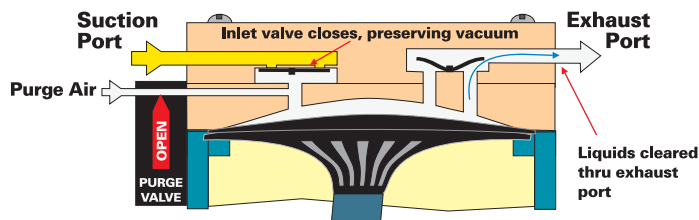
N836.3AP.40E with PowerDry®

How PowerDry® works...

1. Liquids Accumulate Within Pump Head



2. Purge Valve Cycles, Clearing Liquids Instantly



INNOVATIVE
TECHNOLOGY
WORLDWIDE



NEUBERGER, INC.

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