



## Pneumatic Circuit Keeps Wine Fresh For Up To 21 Days

### Challenge:

Pneumadyne was approached by a group of Design Engineers to develop a hand-held vacuum gun that could be attached to a wine preservation unit. Field testing of the first generation unit that they had designed also revealed the need for changes within the pneumatic circuitry to ensure that the system consistently functioned as required.

Requirements:

- The preservation unit had to function at 26" Hg
- System electronics needed to be able to run a self-check for leaks
- A method of counting cycles was required to indicate the number of uses at any given time
- Improve the overall look of the system

### Solution:

Pneumadyne re-engineered the customer's original concept to create a Central Vacuum Unit that is modular, more aesthetically appealing system.

- The new unit includes a computerized control system to monitor system performance parameters and usage
- A 10-gallon vacuum tank was installed inside the new control box
- A new vacuum pump runs quieter than the component that had been previously selected
- Pneumadyne engineers were able to reduce the overall size of the unit so that it could be installed under a bar or counter when necessary

### Benefits:

- Envelope was reduced so the unit can be installed under a bar or counter
- Computerized control system monitors performance
- Quiet vacuum pump eliminates noise issue

### Other Applications:

- Food Preservation
- Packaging
- Pick and Place



PNEUMADYNE

Contact Pneumadyne at [888-559-0177](tel:888-559-0177) or [sales@pneumadyne.com](mailto:sales@pneumadyne.com)

S11-1895

[www.bimba.com/en/Solution-Centers/Industry-Solutions-Center/](http://www.bimba.com/en/Solution-Centers/Industry-Solutions-Center/)