



PEREGRINE MOBILE BOTTLING, LLC offers Premium Mobile Bottling, Mobile Crossflow Filtration, Commercial Tent and Bottling Team Services to companies in the Wine and Cider Industry. It is our Mission to provide our customers with Highest Product Quality, Latest Available Technology and Customized, Personal Service. Following our success with our **KRONES**-engineered mobile bottling line, we introduced our mobile **PALL OENOFLOW XL-6S Crossflow Filtration** unit. For further information and availability please contact Thomas Jordan at [thomas@PeregrineMobileBottling.com](mailto:thomas@PeregrineMobileBottling.com) or 707-637-7584.

## Latest Technology in Mobile Wine Crossflow Filtration

Crossflow Filtration Technology has gained significant acceptance in the wine industry over the last few years. Latest membrane technology including prolonged membrane life, compact equipment designs, reduced waste volumes / filtration yield, and better process control, enable wineries of all sizes to further reduce operating costs whilst maintaining respect for the qualitative characteristics of the wine. Thus, crossflow filtration technology is setting new standards in achieving quality, yield and efficiency in the industry. Crossflow filtration is today the unique alternative to conventional filtration methods.

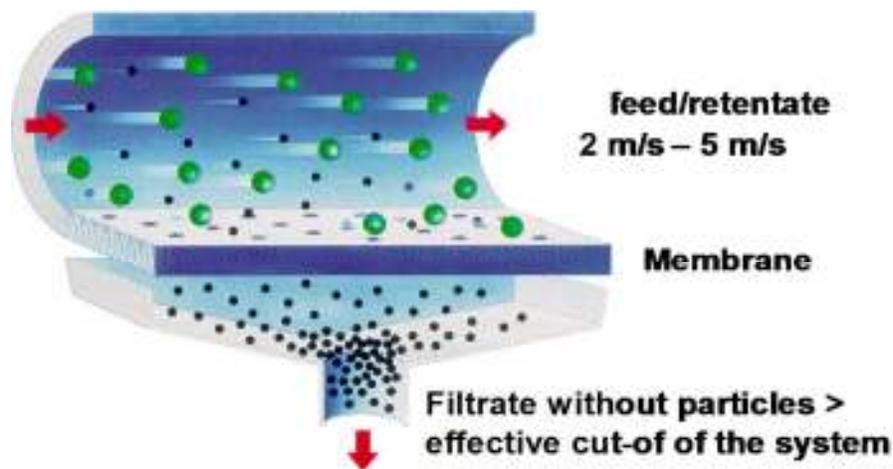


Figure 1: Principle of the tangential flow filtration (Pall Corporation)

The hollow fiber system enables wineries to remove suspended contaminants from wine in a reliable, reproducible, single process step and make it microbiologically stable. Clarification is achieved without the need for filter aids, centrifugation or interference

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with the chemical, physical or organoleptic components of the wine. This also makes it an environmentally-friendly filtration process.



Figure 2: Wine Before and After Crossflow Process

In one step, crossflow or tangential flow filtration clarifies the wine, giving it a clear appearance. Moreover, crossflow filtration is ‘easier’ on your wines because the filtering is made without any change of state of the filtered element compared to conventional methods (i.e., plate-and-frame). Conventional filtration methods involve high amount of labor, material, storage and disposal costs when compared to crossflow filtration technology. Besides the proven quality it therefore offers strong advantages as it drastically simplifies the steps used to process your wine before bottling in a cost competitive way.

During the filtration process, at times, the desired product is in the retentate (concentrate) side while at others, it is in the permeate (filtrate) side. This is a pressure driven process where the transmembrane pressure forces the filtrate (permeate) to pass through the membrane while suspended solids are retained (Figure 1). Over time, the retained particles are concentrated at the membrane surface and form a surface or boundary layer.

One characteristic of crossflow filtration is the high crossflow (tangential) velocity of the suspension to be filtered over the membrane surface. The crossflow velocity ensures that the boundary layer on the membrane is minimized and kept constant.

In the U.S. and in any major wine area around the world, several companies have established themselves as reliable equipment providers for crossflow filtration

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equipment; among them are Pall Corporation, Bucher Vaslin and Padovan. Each of the vendors offer their specific technology in terms of membrane and system technology, process control, space requirements, ease of use and cost of operation with references at well-known wineries.



Peregrine Mobile Bottling, LLC evaluated existing crossflow technology in regards to our specific needs as a **Mobile Service Provider** to the **California Wine Industry**. By researching latest state-of-the-art technology, visiting many wineries different parts of the world and discussing the available technologies in the marketplace with winemakers who use it, we eventually decided to purchase a **Pall Oenoflow XL-6S** system.

Many capital intensive processes lead to the consideration of using outsourcing services. **Peregrine Mobile Bottling, LLC** specializes in Highest Quality Engineering Solutions for Outsourcing Services. Our high customer acceptance and repeat business proves that our combination of highest technology combined with customized, personal service offers best quality and significant value for our customers.

For additional information on mobile bottling and filtration service or any other bottling related subjects please contact:

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