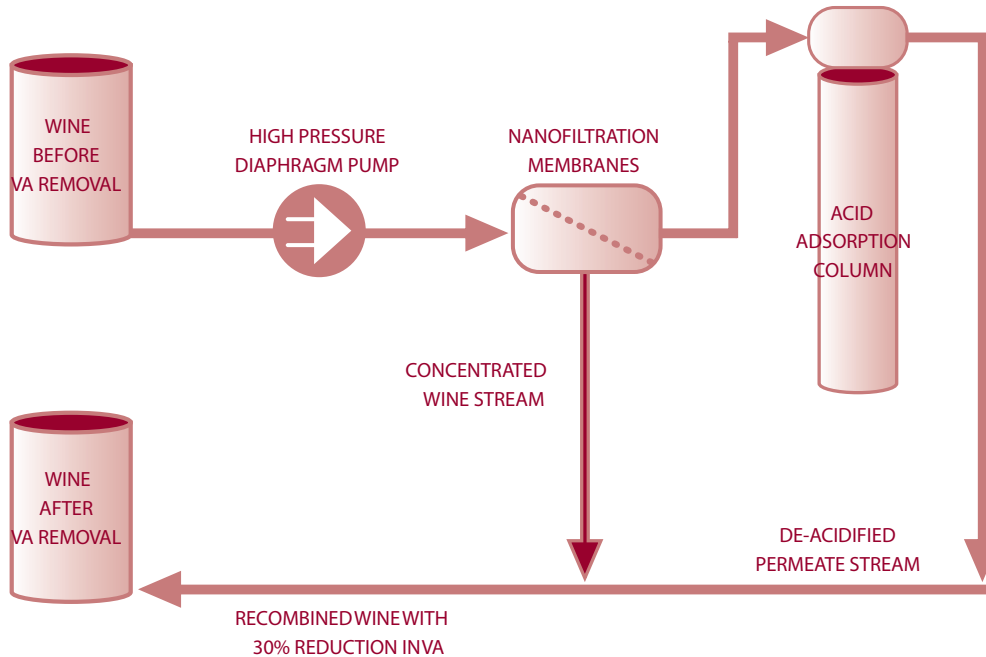




FILTRATION
FINE WINE REFINED

MOBILE VA REDUCTION USING NANOFILTRATION



ADVANTAGES OF VA REDUCTION USING NANOFILTRATION

- Minimum 30% VA reduction on a single pass
- 500 - 1,000 gal/hour process flow
- One pass means no internal recirculation.
- Negligible heat increase.
- Lower treatment pressure = lower wine stress
- Friendly and continuous onsite supervision by skilled operators
- Onsite, small volume processing using the 'Sweetspotter'
- Cost effective for lower quality wines

ON-SITE TECHNICAL INFORMATION

| | |
|----------------------------------|---|
| System Flow Rate: | 500 - 1,000 gal/hr |
| VA Reduction / pass: | 30 - 40% |
| Preferred process: | Tank to tank configuration |
| Power required: | 208/240V (30 amp), 480V (20 amp) |
| Water required: | Running water at 30 psi (minimum) |
| Nitrogen required: | Single cylinder |
| Process wine temperature: | 55°F |
| Max residual sugar (RS) level: | 10% (if higher please discuss) |
| Minimum recommended volume: | 300 gallons (Use 'Sweetspotter' for smaller volumes) |
| Glycol cooling: | Not required |
| Clarity required for processing: | Racked twice, minimum |



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FREQUENTLY ASKED QUESTIONS

Does Nanofiltration effect wine quality?

With single pass treatment and negligible heat increase, our process is purposefully designed to be as gentle as possible on your wine. Reducing the VA to the desired level will only enhance the quality and characteristics of your wine.

Will VA reduction help restart a 'stuck' fermentation?

Yes, it will. Our testing and experience tells us that reducing your VA to less than 0.7 g/l will help restart and complete your fermentation.

Can I reduce the VA on a single barrel of wine?

You bet. We have a smaller VA reduction system called the 'Sweetspotter' specifically designed for single barrels and volumes up to 400 gallons. What's more, they are available with supervision if required, to rent or lease. Great for trials and smaller volumes.

What pH change can I expect?

We're removing Acetic acid from your wine, so you can expect a small pH change. It all depends on the wine's starting pH and the overall VA reduction. The higher your pH, the smaller the acid buffer against the acetic acid reduction. On average, the change is 0.05 points for a 30% VA reduction.

How does Nanofiltration compare with RO?

Very well! VA reduction with Nanofiltration uses up to 50% lower operating pressure than Reverse Osmosis. That, combined with a higher VA removal rate in a single pass, adds up to a treatment with less power required, less heating of the wine and, importantly, less handling of your wine. Therefore, ensuring a higher quality end product.

When should I reduce my VA prior to bottling?

At least one month should do the trick. Even though we're as gentle as possible, it's still smart to allow your wine enough time to recover before bottling.