

Wine-COR M Modular Microfiltration Systems

Flexible Wine Filtration Systems

The Wine-COR M microfiltration system has a modular design to easily expand as throughput requirements increase. It consists of a base system and expansion modules which can process throughput from 6-60 gallons per minute (gpm) (1.4 m³/hr-14 m³/hour).

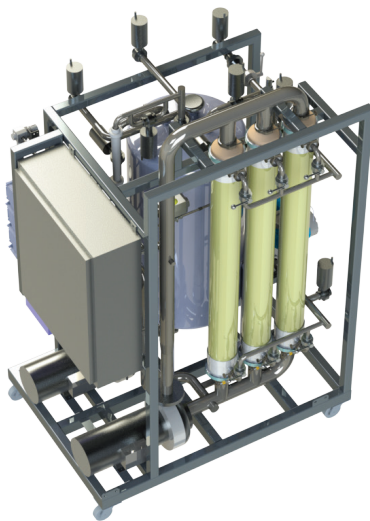
The base Wine-COR M system is a fully automated, standalone system capable of filtration rates up to 15 gpm (3.5 m³/hr). It consists of an Allen Bradley based control system for automated operation, onboard feed/CIP tank, system feed pump, recirculation pump, instrumentation, valves and three (3) KMS WINEFILTER 6060 cartridges. No modifications are necessary to add expansion modules.

The throughput capacity of the Wine-COR M system can increase by adding up to 3 skid mounted expansion models which easily bolt to the base system. Each expansion module contains 3 additional WINEFILTER cartridges, piping and a recirculation pump. Adding 3 expansion modules can increase the throughput of the base system up to 60 gpm.

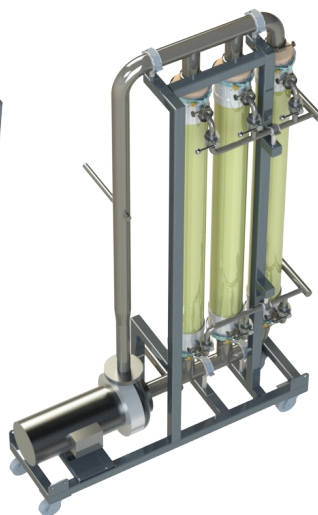
BENEFITS

- Increase wine yield up to 95%
- Modular design for easy expansion
- Compact, mobile design
- Simple, automated operation
- Maintains color, taste, aroma, and alcohol content
- Eliminates the need for Diatomaceous Earth (DE)
- Reduce labor and disposal costs

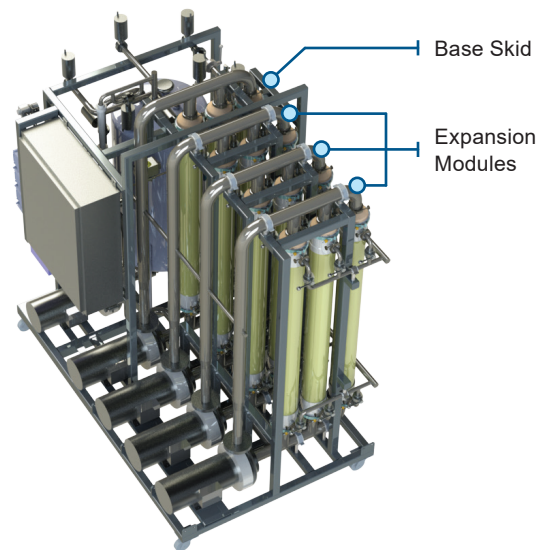
Wine-COR M Options



Wine-COR M-3
Base System



Wine-COR M
Expansion Module



Wine-COR M-12

System Capacity

	Wine-COR M-3	Wine-COR M-6	Wine-COR M-9	Wine-COR M-12
Red Wine	6-12 gpm (1.4-2.8 m ³ /hr)	12-24 gpm (2.8-5.6 m ³ /hr)	17-34 gpm (4-8 m ³ /hr)	22-44 gpm (5.1-10.2)
White Wine	8-16 gpm (1.9-3.7 m ³ /hr)	16-32 gpm (3.7-7.5 m ³ /hr)	24-48 gpm (5.6-11.2 m ³ /hr)	30-60 gpm (7-14 m ³ /hr)

Available Configurations

Wine-COR M Base System (#)	1	1	1	1
Expansion Modules (#)	0	1	2	3
Total Number of Cartridges (#)	3	6	9	12

Installation Information

# of Cartridges	3	6	9	12
Dimensions (L x W x H)	42" x 60" x 92" (1.1m x 1.5m x 2.4m)	64" x 60" x 92" (1.6m x 1.5m x 2.4m)	79" x 60" x 92" (2.0m x 1.5m x 2.4m)	94" x 60" x 92" (2.4m x 1.5m x 2.4m)
Dry Weight	1216 lbs (553 kg)	1588 lbs (721 kg)	1960 lbs (890 kgs)	2332 lbs (1060 kgs)
Electrical Requirements (460V / 3 Phase / 60 Hz)	13 hp / 20 Amps	18 hp / 25 Amps	25 hp / 35 Amps	30 hp / 40 Amps
Raw Wine	2" Tri-Clamp			
Bleed/Return	1.5" Tri-Clamp			
Permeate	1.5" Tri-Clamp			
Cold Water	1.5" Tri-Clamp			
Hot Water	1.5" Tri-Clamp			

Standard Features

- Automated production and cleaning sequences
- Automatic membrane integrity test to verify membrane barrier prior to processing
- Optimized backflush sequence for maximal productivity
- Consistent production rates from VFD controlled feed pump
- On-Skid Feed/CIP tank
- 304SS construction
- Prescreen
- Allen Bradley PLC and HMI

Optional Features

- Metering pumps for hands-free CIP chemical Addition
- Skid mounted permeate forwarding pump
- Effluent turbidity meter
- 240 volts / 3 phase / 60 Hz Design
- 380 volts / 3 phase / 50 Hz Design



Koch Membrane Systems, Inc.

850 Main Street, Wilmington, MA 01887-3388
 Main: +1-978-694-7000 • Fax: +1-978-657-5208 • Toll Free: +1-888-677-5624