

# Lees-COR Tubular Membrane Systems

## Crossflow Membrane Filtration for Lees Treatment

KMS Lees-COR are complete tubular membrane systems designed specifically for the treatment of juice and post fermentation lees. The system is available in 2 standard sizes: Lees-COR 30 and Lees-COR 50.

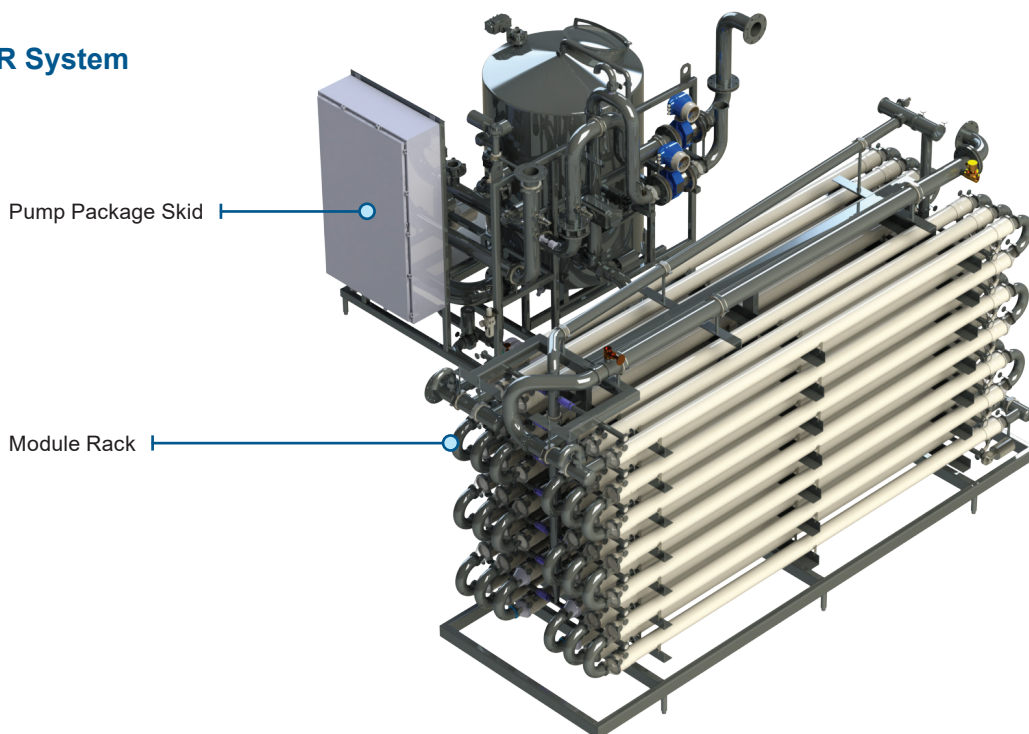
Each system consists of a Pump Package Skid and a Module Rack. The pump package skid is equipped with a feed pump, duplex pre-filtration, valves, instrumentation, automated chemical dosing, a permeate forwarding/CIP tank, and a permeate forwarding pump. A NEMA 4 control panel is mounted to the Pump Package skid to control all system operations. A circulation pump is also provided to be floor mounted adjacent to the Pump Package Skid.

The Module Rack consists of piping and the cross-flow multitube microfiltration membrane modules. The microfiltration modules provide a highly engineered semi-permeable physical barrier that retains solids while allowing the passage of color, ethanol, flavor and aroma. Crossflow microfiltration allows wine recovered from lees to have equal quality with the parent wine.

## BENEFITS

- Highest Quality Recovered Wine
- Quick Return on Investment
- Increased Product Yield
- Reduced waste generation
- Simple Automated Operation
- Eliminates Diatomaceous Earth
- Low Cost of Ownership
- Reduced Footprint

## Lees-COR System



**System Capacity**

	Lees-COR 30 (3 x 10)	Lees-COR 50 (5 x 10)
Juice	10-15 gpm (2.3-3.4 m <sup>3</sup> /hr)	15-25 gpm (3.4-5.8 m <sup>3</sup> /hr)
Wine	5-15 gpm (1.2-3.4 m <sup>3</sup> /hr)	10-40 gpm (2.4-9.6 m <sup>3</sup> /hr)

**Hydraulic Connections**

Raw Feed	3"	4"
Permeate	2"	
Concentrate	3"	
Cooling Water In/Out	1.5" /1.5"	
Product Recovery Nitrogen	1/2"	

**Installation Information**

Dimensions (L x W x H)	26' x 5' x 10' (8.1m x 1.6m x 3.1m)	26' x 7' x 10' (8.1m x 2.2m x 3.1m)
Pump Package Weight	2750 lb (1250 kg)	
Module Rack Weight	2200 lb (1000 kg)	2800 lb (1300 kg)
Electrical Requirements (460V / 3 Phase / 60 Hz)	60 hp/100 Amps	90 hp/150 amps

**Standard Features**

- Durable SUPER-G® Plus multitube membrane modules
- Automated production and cleaning sequences
- Permeate forwarding/CIP tank
- Automatic chemical dosing
- 304SS construction
- Duty & standby Pre-filtration
- Allen Bradley PLC and HMI

**Optional Features**

- Effluent turbidity meter
- 380 volts / 3 phase / 50 Hz design



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