



Filtration Solutions For Ethanol Production

✓ Alcohol Production

- Fusel Draw Filters
- 200 Proof Mole Sieve Trap Filters
- Tank Load Out Filters

✓ Process Water & CIP Systems

- Carbon & DI Resin Trap Filters
- Make-up and POU Rinse Water Filters
- Cooling Water Filters & Strainers
- Boiler Feed Water Filters
- RO Membrane Systems

✓ Fermentation Air (Vented)

- Feed Supply Sterile Air Filters
- Exhaust Gas Knock-out/Coalescers

✓ Facilities Reliability

- Compressor Lube Oil Filters
- Compressed Air Filters/Coalescers
- Boiler Fuel Gas Filters/Coalescers
- Cooling Tower Gearbox Desiccant Breathers



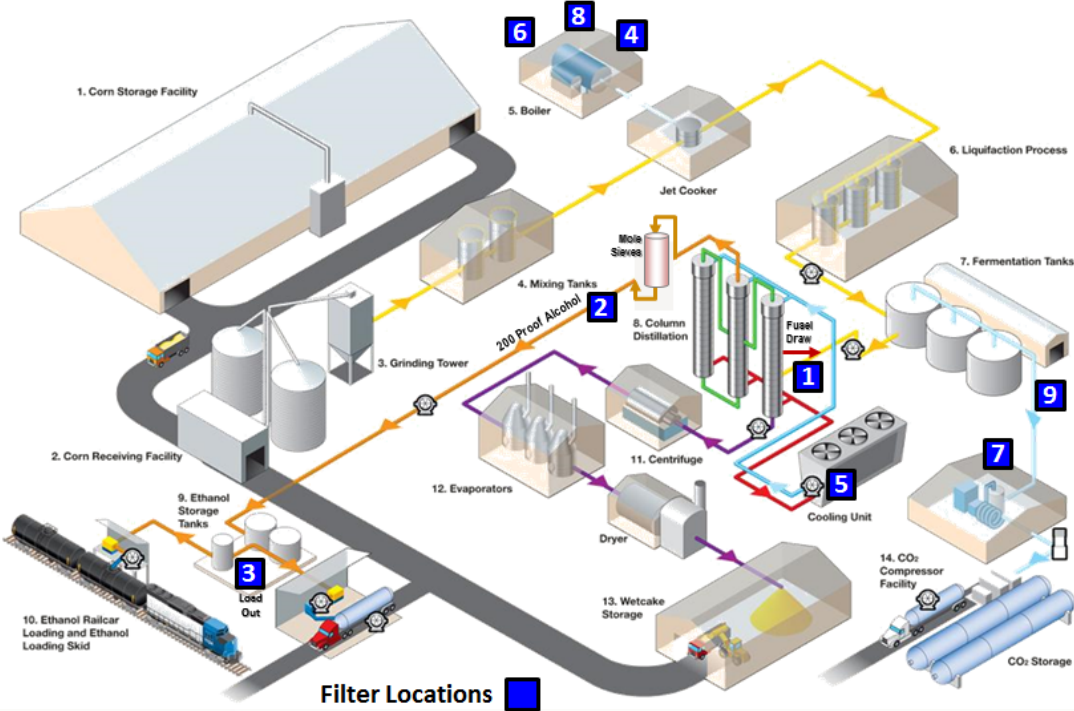
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Ethanol Production



Filter Locations

1 Fusel Draw
 Type: 5µM, Bag Filter
 Usage: High
 Application: to remove stillage solids from Fusel oil so Fusel can be re-injected in 200 proof ethanol.

2 200 Proof Ethanol
 Type: 5µM, Bag Filter
 Usage: Low
 Application: Downstream of the mole sieves to remove sieve dust from ethanol.

3 Load-Out Ethanol
 Type: 5µM, Bag Filter
 Usage: Low
 Application: Downstream of the ethanol storage tanks to remove any pipe scale and debris before loading into trucks and railcars.

4 RO Pre-Filters
 Type: 5µM Cartridge Filter
 Usage: Low
 Application: To filter incoming make-up water to protect R.O. membranes for boiler Make-up.

5 Desiccant Breathers
 Type: DesCase Canister
 Usage: Low
 Application: To prevent moisture ingress in the gearbox that drives the forced draft cooling tower(s).

9 Exhaust Gas Coalescers
 Type: Mesh, Baffle or Canister
 Usage: Low
 Application: To remove liquid aerosols to prevent corrosion in compressor.

8 RO Membrane Treatment
 Type: Membrane Tubes
 Usage: Low
 Application: To remove dissolved salts to prevent fouling/scaling in boiler.

7 Compressor Lube Oil
 Type: Filter Cartridge or Spin-on
 Usage: Low
 Application: To remove compressor wear particles.

6 Boiler Fuel Gas
 Type: Filter/Coalescer
 Usage: Low
 Application: To filter incoming fuel to protect burner nozzles.

Strainrite



Amiad



Stauff



GE Water & Process



Graver



United



Hilco



Baldwin



DesCase

