



SEPRA-CHEM
COALESCING FILTRATION



*Advanced Technology for Removal
of Liquid and Solid Contaminants*

Sepra-Chem Coalescing Filtration



Vertical Coalescing Filter

Sepra-Chem technology designed to remove entrained contaminants, including solids and liquid aerosols from natural gas. An advantage when a smaller footprint is required.

Dual Outlet Vertical Coalescing Filter

Removes entrained contaminants, including solids and liquid aerosols from natural gas. An alternative to larger vertical full opening single outlet coalescing filters.

3N1 Coalescing Filter

The 3N1 Coalescer combines three units into a single vessel; (1) Coalescing filter for liquid aerosol removal, (2) an adsorbent chamber for oil vapor removal, and (3) a particle filter for dust removal.

Special Configuration Coalescing Filters

Designed to remove entrained contaminants, including solids and liquid aerosols from natural gas. Custom designed for your needs.

Wet Filter

Pre-filter removing solids and some liquids greatly extending the working life of coalescing elements located in the downstream coalescing filter.



Coalescing Filtration Technology...

Sepra-Chem Coalescers completely remove liquid and liquid wetted solids including iron sulfide preventing downstream contamination.



Horizontal Coalescing Filter

The Horizontal Coalescing Filter utilizes Sepra-Chem technology designed to remove entrained contaminants, including solids and liquid aerosols from natural gas.



Coalescing Filter with Inlet Integral Slug Chamber

The Coalescing Filter with Inlet Slug Chamber is available (recommended) on all horizontal and vertical coalescers. The filter traps slugs of liquid prior to the aerosol coalescing process. Slugs reaching the Coalescing Chambers upset the Coalescing Process and destabilize performance.



Horizontal Dual Closure Coalescing Filter

Advanced Sepra-Chem technology removes entrained contaminants, including solids and liquid aerosols from natural gas. An alternative to larger horizontal full opening single outlet coalescing filters.



Liquid - Liquid Coalescing Filter

Coalescer designed to separate two immiscible liquids such as removing amine from Y-grade, Ethane, Propane or other light hydrocarbons.



Dust Filter

Removes molecular sieve dust from plant feed gas prior to entering the cryogenic section of plant.



Sepra-Chem Corporation got its start in 1993 in the Coalescer “after market” by replacing existing Coalescers in plants not performing up to customer expectations. Customers needing to protect equipment such as Amine Contactors, Glycol Dehydrators, Molecular Sieves, Reciprocating Compressors, Gas Turbines and Membranes have turned to Sepra-Chem Technology to gain higher operating efficiencies. **No visible evidence of liquid carryover is expected downstream of any Sepra-Chem Coalescer when operating within its design parameters. With a Sepra-Chem Coalescer protecting your process equipment, unscheduled maintenance should not occur.**

Coalescing Filtration protects your process...



Natural Gas Gathering & Compression

Gathering Stations need compressor suction and discharge protection. Contactors and Sales Meters benefit from Coalescing protection as well.



Natural Gas Liquid Cryogenic Plants

Sepra-Chem Coalescers protect Molecular Sieves, Amine Treaters, Glycol Contactors, Compressors and Sales Gas Meters.



LNG Facilities

It's important to achieve long bed life in the Molecular Sieves. Sepra-Chem has a proven track record of achieving multiyear bed life, as well as protecting Amine Contactors, Glycol Contactors and Compressors.



Ethane Crackers

Inlet Feed Coalescers remove contaminants that can cause premature coking and reduce run time. Coalescers protecting Molecular Sieves will remove free liquids and aerosols providing a long bed life.



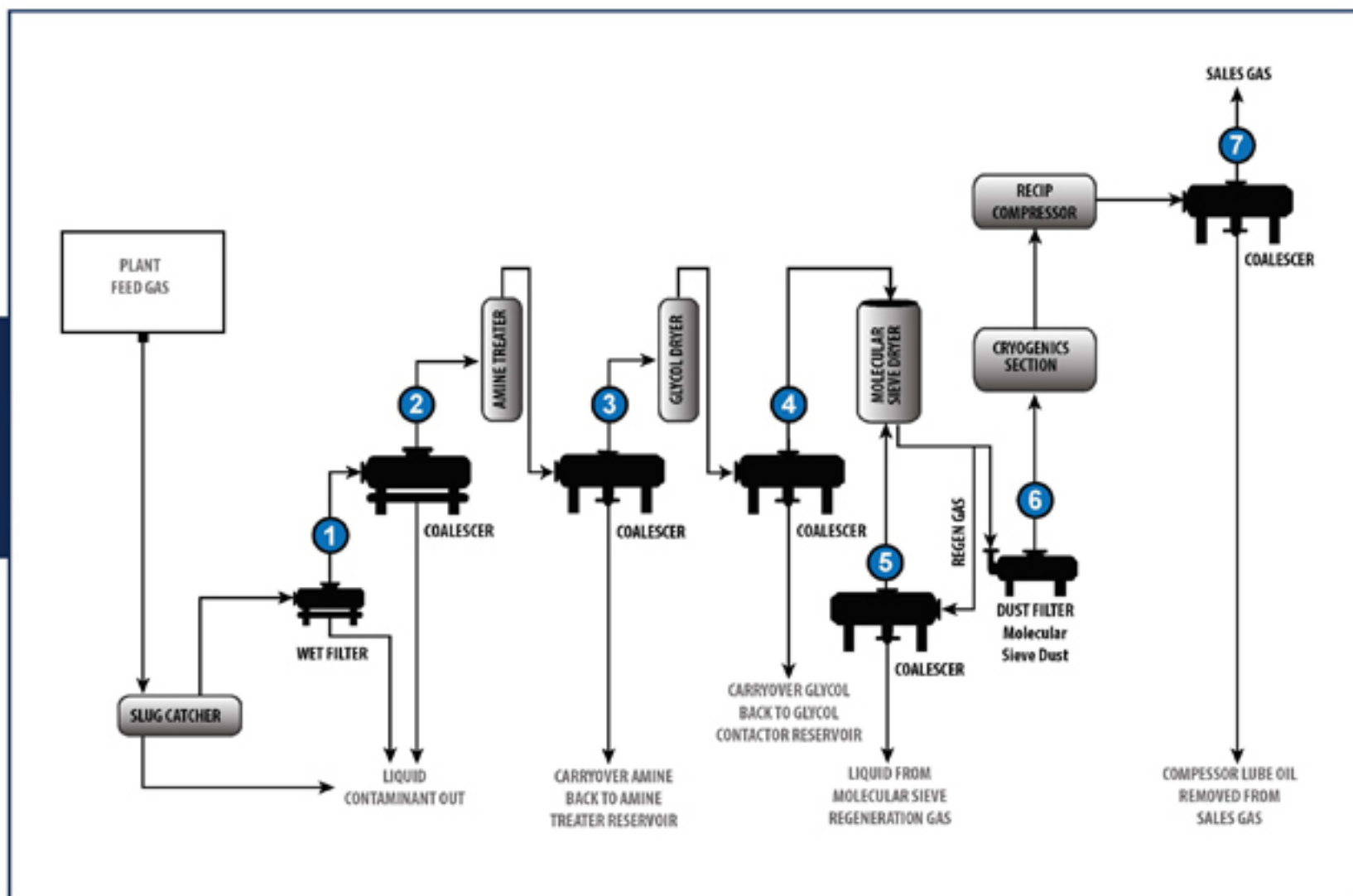
Power Plants

Liquid aerosols must be removed prior to Turbine inlets.



Refineries

Protection of many types of sensitive equipment: Amine Contractors, Compressors, Fuel Gas Burner Nozzles, Membranes and PSA processes.



- 1 **Wet Filter protecting Plant Inlet Coalescer:** Captures solids and major portion of liquids prior to feed gas entering Coalescer. This greatly extends the life of Coalescing elements between change outs.
- 2 **Protecting the Amine Contactor:** Removes liquid aerosols and solids preventing foaming, loss of solvent downstream and loss of amine's capacity to remove acid gases. Minimizes downtime and additional downstream contamination.
- 3 **Protecting the Glycol Contactor:** Removes liquid aerosols and solids preventing upset conditions caused by contamination of glycol. This contamination lowers the dehydrators capacity to remove water vapor.
- 4 **Protecting Molecular Sieve:** Removes free liquids, solids and entrained liquid aerosols that contaminate the molecular sieve by coating the sieve with liquid, reducing its capacity to remove water vapor and allowing off-spec gas to enter the cryogenic section of the plant.
- 5 **Protecting Molecular Sieve:** Removes reciprocating compressor lube oil aerosols.
- 6 **Dust Filter:** Removes Molecular Sieve dust fines prior to feed gas entering the Cryogenic section of the process.
- 7 **Protecting Sales Gas Meters:** Removing lube oil aerosols prior to metering points.



Sepra-Chem Coalescer Test Unit

Sepra-Chem has performed testing in a variety of processes with proven success. Data gathered from a test unit enables us to diagnose and recommend a solution. If you suspect carry over contamination in your equipment, it's in everyone's best interest to confirm it as soon as possible. Contact one of our Applications Engineers today for information about this useful option for on-site testing and evaluation.

Spare Filter Elements, Closure Seals and O-Rings

Sepra-Chem supplies replacement elements and seals for all units. Contact us for information on how to order.



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