

HILCO Fluid Conditioning Systems



The fluids used in the high pressure electro-hydraulic control systems (EHC) of steam turbines present a unique set of problems. These fluids are typically a fire-resistant, synthetic phosphate ester base which require continuous filtration in order to maintain proper lubricant characteristics.



HILCO Model 36717-530401052 Fluid Conditioning System



The local operator interface panel displays the system's operating status at all times.

HILCO has recently developed a self-supporting, manifold design system ideal for the fluid conditioning needs of the EHC system operators. The system incorporates Hilliard's patent-pending dry resin ionic exchange cartridges for acid control (TAN), while moisture and particulate contamination are maintained by a set of Hilsorb dryer cartridges. The system has a multitude of pumps, motors, and instrumentation that are all controlled by an onboard PLC.

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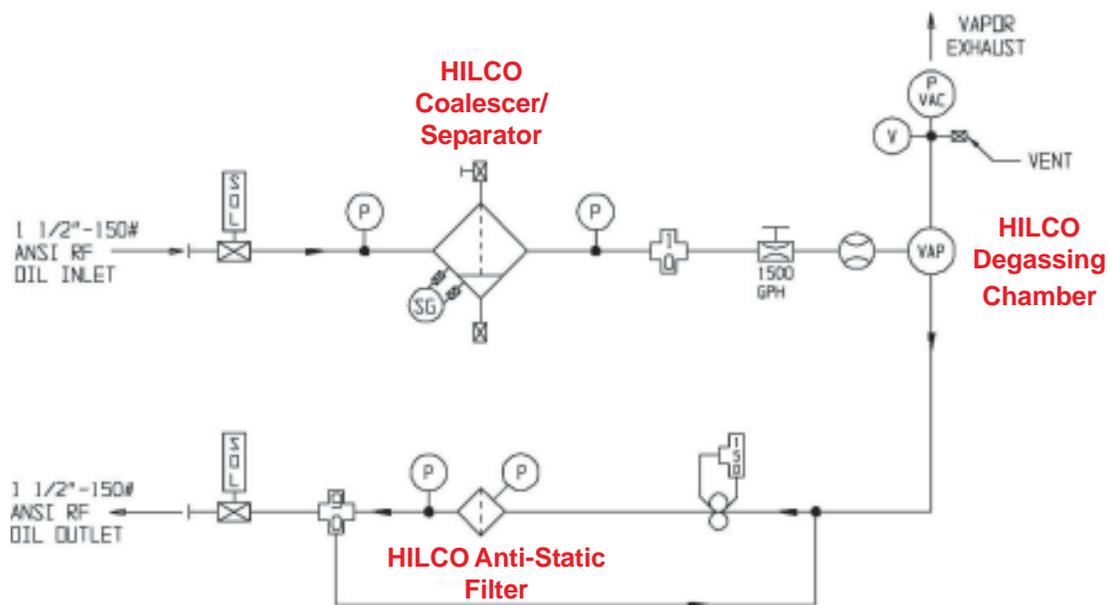
Turbine Oil Conditioning System to Prevent Sludge and Varnish Formation



Start-up failures and unit trips caused by sticky servo-valves can be brought under control!

Air and water in turbine oil, combined with extremely high localized temperatures produced by static electricity from mechanical filtration and the implosion of tiny air bubbles during adiabatic compression in the high pressure pumps of the hydraulic system, are the primary causes of oil oxidation and the creation of oil degradation products such as sludge and varnish. Also, air and water present in the turbine oil decreases the viscosity, promotes foaming, and interferes with the formation of a proper oil lubricating film, causing premature wear.

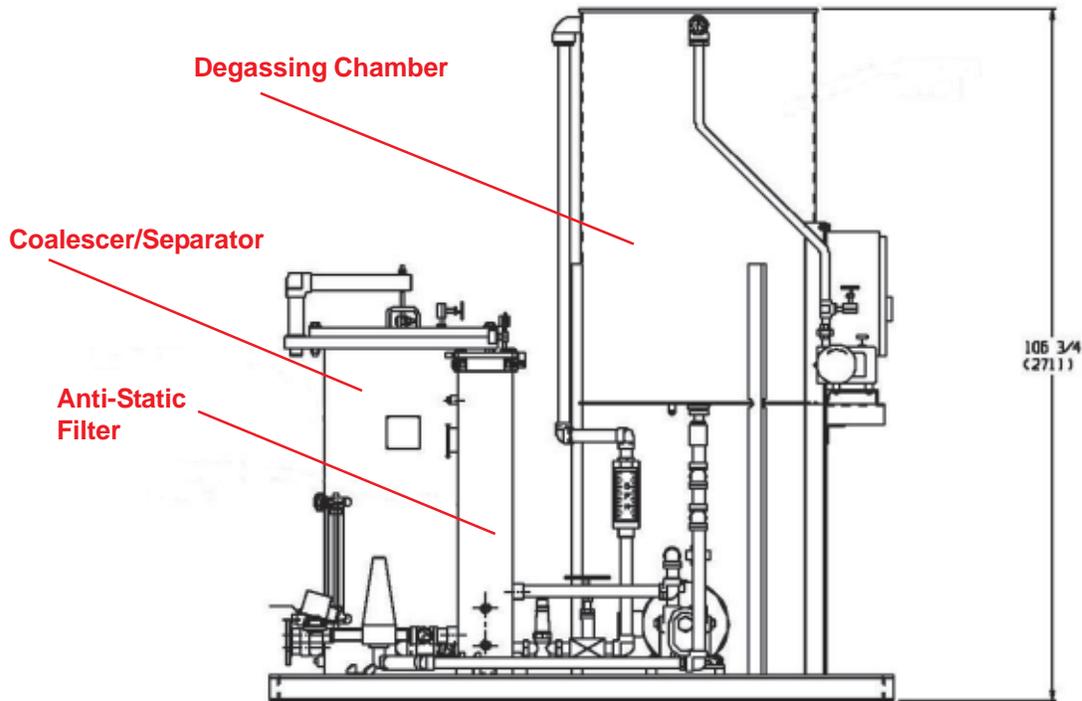
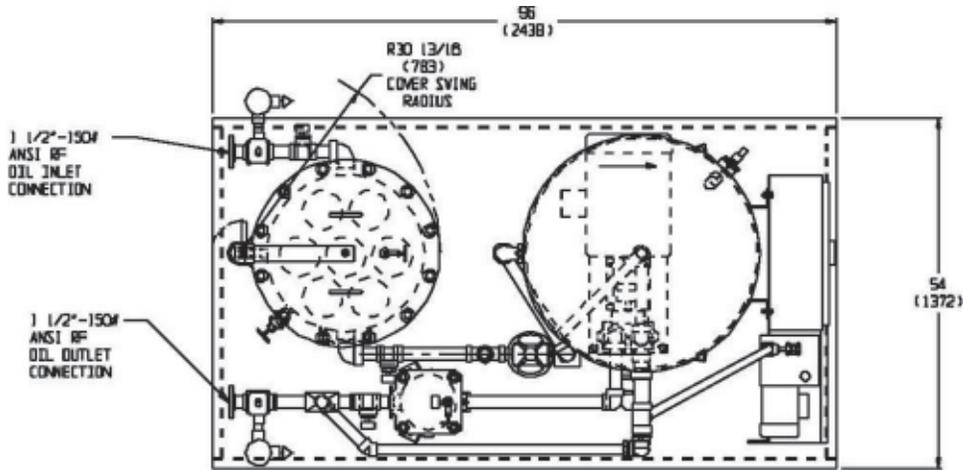
The HILCO Turbine Oil Conditioning System addresses these root causes of oil degradation with a three-fold combination of purification methods: coalescence to remove free water, vacuum degasification to remove entrained air, and filtration with antistatic filter elements to remove particulate.



Benefits

- Reliable, trip-free servo-valve performance
- Varnish-free lube and hydraulic circuits
- Extended oil life
- Decreased bearing and gear wear

HILCO 1500 GPH Turbine Oil Conditioning System



Contact a Hilliard representative for detailed information on the three-fold Turbine Oil Conditioning System that will fit your particular needs.

*The Hilliard Corporation reserves the right to change specifications and dimensions at any time.
Please contact the factory for the most current information.*

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