

Summarized Design Comparison Between Centrifugal/Rotary Purifier Versus Filter/Separator

Aircraft Appliances (AAE) was approached by the U.S Navy to replace existing Centrifugal Purifiers in the Lube Oil Purification System with Filter Separators. AAE's Study and testing eliminated the need for Centrifugal Separators in the Lube Oil Purification system of U.S. Navy vessels.

Item	Description	Centrifugal Purifier	AAE Filter Separator
1	Application	Uniform performance for any	Maximum performance up to 40%
		range of mixture JP-5. Lube Oil	of water contamination
		and Water	
2	Cost:		
	a. Capital Equipment		
	Installation and Support	\$400,000.00	\$150,000.00
	Equipment		
	b. Maintenance Cost Annually	\$60,000.00	\$15,000.00
	c. Service and Contract	\$6,000.00	\$None
3	Storage and Disposal	Storage space depending on	Storage space- Only for elements
		number of units. It varies but a	and Gaskets 20 Cubic Feet.
		minimum of 150 Cubic Feet	
4	Power	10 Hp Motor and power	Minimal needed for control panel.
		consumed for heating hot water	
		for flushing	



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Item	Description	Centrifugal Purifier	AAE Filter Separator
5	Hot and Cold Water Supply	Yes	None Needed
6	Down Time for Maintenance	2 Weeks	1 Day
	(Annual)		
7	Manpower Skill Requirement	High	Average
8	Weight	2,000 Lbs	1,800 Lbs