



SVR® RO PRODUCT BULLETIN

Safe and Proven Solution for Preventing Lubricant Varnish

SVR® RO IS A SKID-MOUNTED DIALYSIS-STYLE LUBRICANT CONDITIONING SYSTEM THAT TARGETS THE UNDERLYING CAUSE OF LUBRICANT FAILURE BY MANAGING CHEMISTRY FULL-TIME.

From the first day a lubricant is put into service, it begins to accumulate dissolved oxidation by-products – the feedstock of varnish, constraining the life of the oil. These oxidation by-products accumulate until the lubricant has no remaining capacity, forcing any excess into insoluble material. Based on their polarity, this insoluble material is more attracted to metal surfaces, creating solid varnish – a common failure mechanism.

SVR® RO, backed by patented, ICB® RO, removes dissolved oxidation material continuously, eliminating the molecules that should not be in the oil and the root cause of varnish during regular turbine operation. The result: the acid number never increases, MPC never increases, and oil performance is consistent throughout its lifecycle. Additive life is also extended as the secondary reactions with accumulated oxidation by-products that would otherwise occur are eliminated, significantly extending lubricant life.



SVR RO FEATURES AND BENEFITS

- Eliminates varnish at the molecular level preventing the oil from becoming saturated and forming varnish deposits
- Maintains consistent fluid quality and performance
- Restores acceptable MPC varnish potential (ASTM D7843-21)
- Manages fluid life with as little as 5% annual top up
- Creates potential for fluid life to be extended for the life of the turbine
- Avoids flushing and related downtime
- Eliminates need for expensive after-market additives
- Engineer approved system designed to facilitate rapid approval and deployment
- Manufactured to ISO 9001 standards
- Very low maintenance and time requirements – turn it on and let it run
- **No downtime - SVR can be installed without an outage**



SVR RO INCLUDES

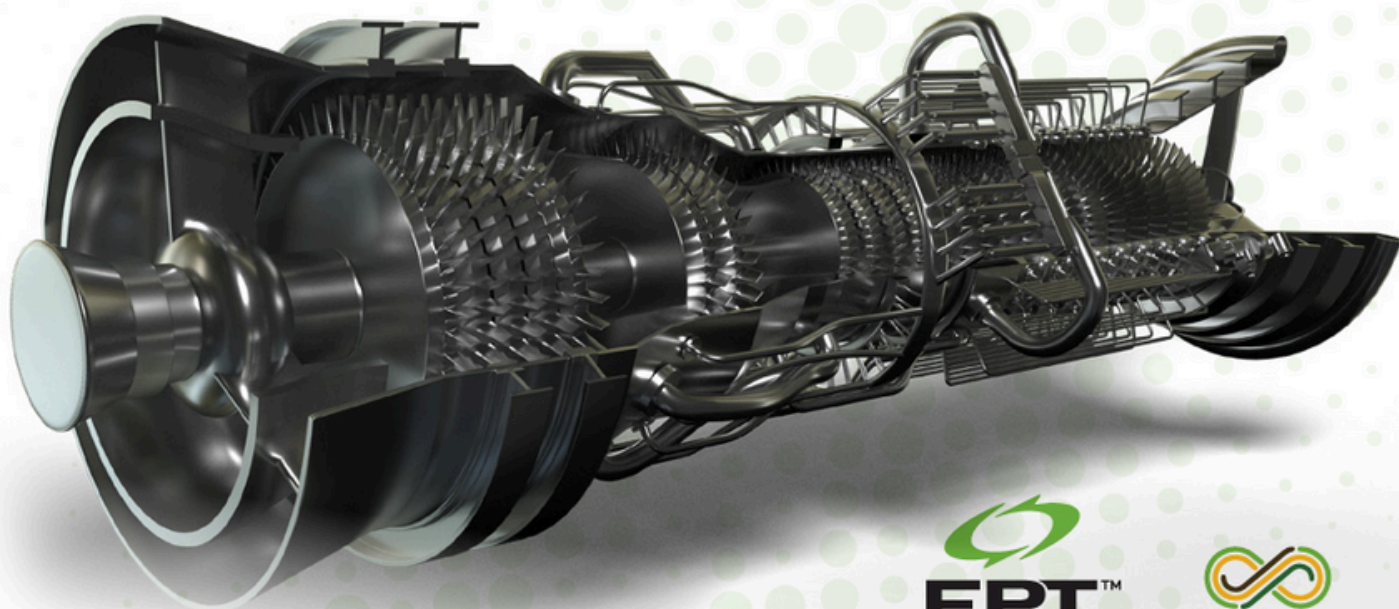
- One set of patented ICB RO filter(s) and mechanical filter(s)
- EPT Clean Oil Fluid Technical Center oil analysis and reporting until results are documented
- Dedicated online training, commissioning resources and warranty registration



SVR SYSTEM SPECIFICATIONS

	SVR 150	SVR 300	SVR 600	SVR 1200	SVR 2400
Dimension LxWxH	120 x 79 x 102 cm 47" x 31" x 40"	120 x 79 x 148 cm 47" x 31" x 58"	122 x 66 x 102 cm 48" x 26" x 40"	122 x 66 x 148 cm 48" x 26" x 58"	178 x 76 x 148 cm 70" x 30" x 58"
Weight	159 kg / 350 lb	181 kg / 400 lb	201 kg / 550 lb	273 kg / 600 lb	454 kg / 1000 lb
Crated Dimension LxWxH			145 x 92 x 125 cm 57" x 36" x 49"	145 x 92 x 176 cm 57" x 36" x 69"	
Crated Weight			400 kg / 882 lb	443 kg / 977 lb	
Connections Inlet/Outlet FNPT:	1.0" / 1.0"	1.0" / 1.0"	1.5" x 1.0"	1.5" / 1.0"	2.0" x 1.5"
Reservoir Volume	1,600 L / 420 gal	5,472 L / 1,440 gal	13,680 L / 3,600 gal	27,360 L / 7,200 gal	54,720 L / 14,400 gal
Operating Temperature	86°F to 176°F (30°C to 80°C)				
Flow Rate	2.0 lpm / 0.5 gpm	4.0 lpm / 1.0 gpm	8.5 lpm / 2.5 gpm	19.0 lpm / 5.0 gpm	32.0 lpm / 10.0 gpm
Reservoir Exchange Rate/24 hr	1.8x	1.8x	1.8x	1.44x	1.44x
Electrical Options	115VAC / 1Ph / 60Hz (General Purpose) is standard. Other electrical options are available. Explosion Proof (Class I, Div I and Div II) options are available.				
Current	13.2 Amps (at 115VAC / 1Ph / 60Hz)				

* For normal lubricant maintenance, the desirable flow rate is to exchange the fluid reservoir volume 1 – 2x per day. For recovery projects, higher exchange rates are desired.



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www.hubame.com.mx | marketing@hubame.com.mx | Teléfono (81) 8000 7600