EPT™
CLEAN OIL

LUBRICANT CHEMISTRY MANAGEMENT

SVR® HYDRO PRODUCT BULLETIN

Complete three stage filtration system offering comprehensive lubricant chemistry management. All the benefits of an SVR® plus water separation and removal.

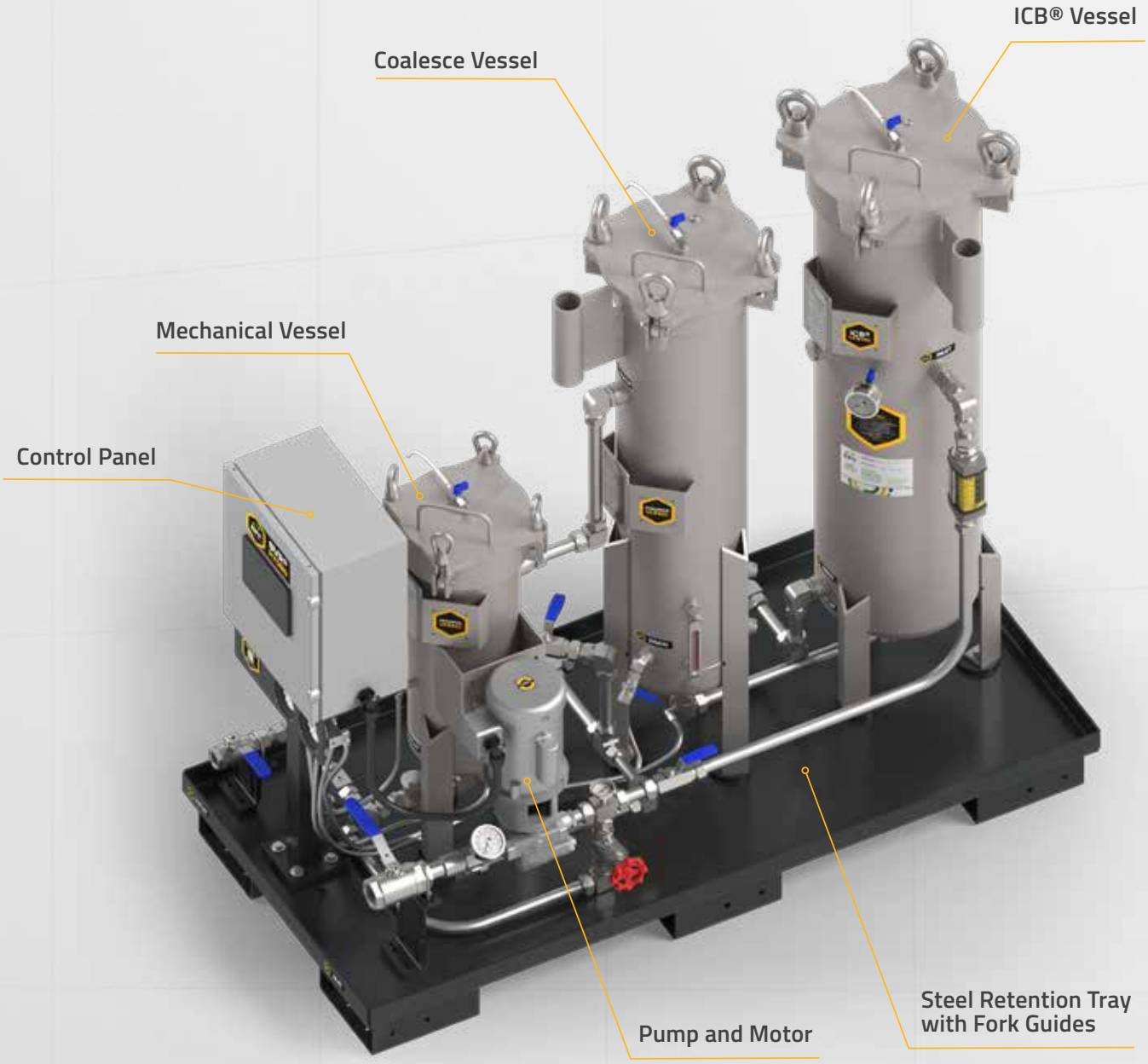
SVR® HYDRO boasts three technologies in one advanced skid-mounted kidney loop filtration system offering a complete lubricant chemistry management solution. Through advanced filtration technologies including molecular contamination adsorption with patented ICB® ion-exchange filtration, proprietary mechanical coalescing and micro-filtration, SVR HYDRO restores and protects lubricants from acid, varnish, particulate, and free and emulsified water, in an energy- efficient and expedient manner.

- **Varnish and Acid Control**
- **Water Separation and Removal**
- **Particulate Removal**
- **Additive Protection**

= **Lubricant Chemistry MANAGED**

The SVR HYDRO removes lubricant breakdown products that previously limited the effectiveness of water separation technologies, including coalescers. SVR Hydro creates a golden triangle focused on oil-water separation, water removal and lubricant chemistry management.

SVR® HYDRO QUICK REFERENCE GUIDE



SVR® HYDRO INCLUDES

- One set of consumables including: Patented ICB® ion-exchange filters (2), TMR® AquaPurge Coalescer (1) and high-efficiency particulate filter (1)
- EPT Clean Oil Fluid Technical Center oil analysis and reporting until results are documented
- Dedicated online training, commissioning resources and warranty registration
- Engineer approved system manufactured to ISO 9001 standards, designed to facilitate rapid approval and deployment
- Very low maintenance and time requirements – turn it on and let it run
- Certified stainless steel pressure vessels
- No downtime - SVR HYDRO can be installed without an outage

SVR® HYDRO SPECIFICATIONS

Standard Dimensions* (Additional options are available upon request.)	**Height**	**Length**	**Width**
	63" (160 cm)	64" (163 cm)	30" (76 cm)
Connections	**Inlet**	**Outlet**	
	1.5" FNPT with locking ball valve	1" FNPT with locking ball valve	
Seals	Fluorocarbon + Silicone		
Operating Temperature	86°F to 176°F | 30°C to 80°C		
Materials of Construction	**Vessels**	**Tray**	**Fittings**
	ASME Rated/ CRN Certified Stainless Steel 304 Pressure Vessels	Carbon steel with 2-part epoxy and chemical resistant powder coating	Stainless steel instrumentation fittings
Electric Motor	TEFC, 56C Frame 1HP, 1450-1760 RPM		
Control Panel	16Ga steel enclosure, with 1/4 turn locks, NEMA 4, 12 (IP66)		
Pump	Cast Iron, PD Spur gear, Internal Relief, Lip Seal, Maximum inlet pressure 15 psi (1bar)		
Flow Rates	System Flow Rate: 10.2 gpm Particulate Removal (Fixed) ICB® Vessel 5.6 gpm | 19.0 lpm MAX		
Media Description	**ICB® Filter**	**TMR® AquaPurge Coalescer**	**High Efficiency Particulate Filter**
	Patented ion-exchange filters to reverse the varnish formation process through lubricant chemistry management, improving oil-water separation and removing acids, varnish deposits, soluble oxidation by-products and dissolved contamination from mineral based turbine oil.	Proprietary integrated coalescer and seperator technology, complete with corrosion resitant hardware and hydrophobic synthetic media, multi-chamber technology targeting free and emulsified water, and single pass efficiencies below 200 ppm.	ß1(c) ≥ 1,000 Particulate Removal Other options available. Email **support@cleanoil.com** for more information.
Electrical Options	110 V 50 hz 115 V 60 hz 220 V 50 hz 1 PH 208-230 V 3 PH 230 V 60 hz 1 PH 380-415 V 50 hz 3 PH 460 V 60 hz 3 PH 575 V 60 hz 3 PH		
Fluid Compatability	Rust and oxidation turbine oil.		

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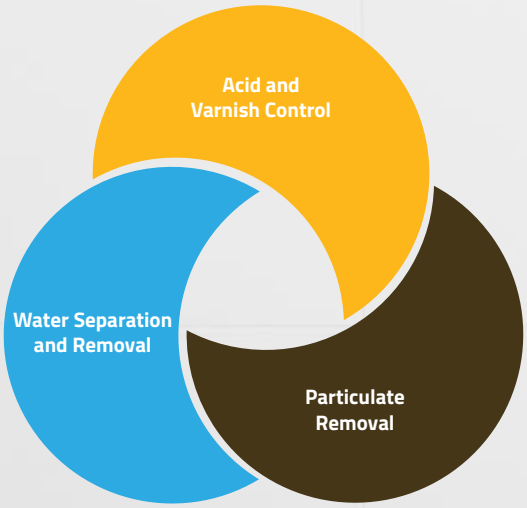
Get the WET OUT

- Addresses the root cause of poor oil-water separation, knocking down oxidative material to break and prevent emulsion formation.

- Simple, sophisticated, easy to operate system that marries three phases of filtration into one advanced lube oil conditioning system to deliver reduced lifecycle costs.



- 15% of the energy consumption of vacuum dehydration and single pass water removal efficiencies of up to 90% allowing for multi-pass water-removal to < 200 ppm.

- Automatic water leg drain, leg counter tracking cycles, redundant fail-safes, offering worry free operations.

- Extended oil service intervals, reduced equipment maintenance requirements and increased performance and uptime.

Want to find out more? Be in touch.
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