







## MEET SVR® HYDRO

All the benefits of an SVR® plus water separation and removal.

### MEET THE NEWEST ADDITION TO OUR SVR® LINEUP

COMPLETE THREE STAGE FILTRATION SYSTEM OFFERING COMPREHENSIVE LUBRICANT CHEMISTRY MANAGEMENT.

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

ICB® Vessel

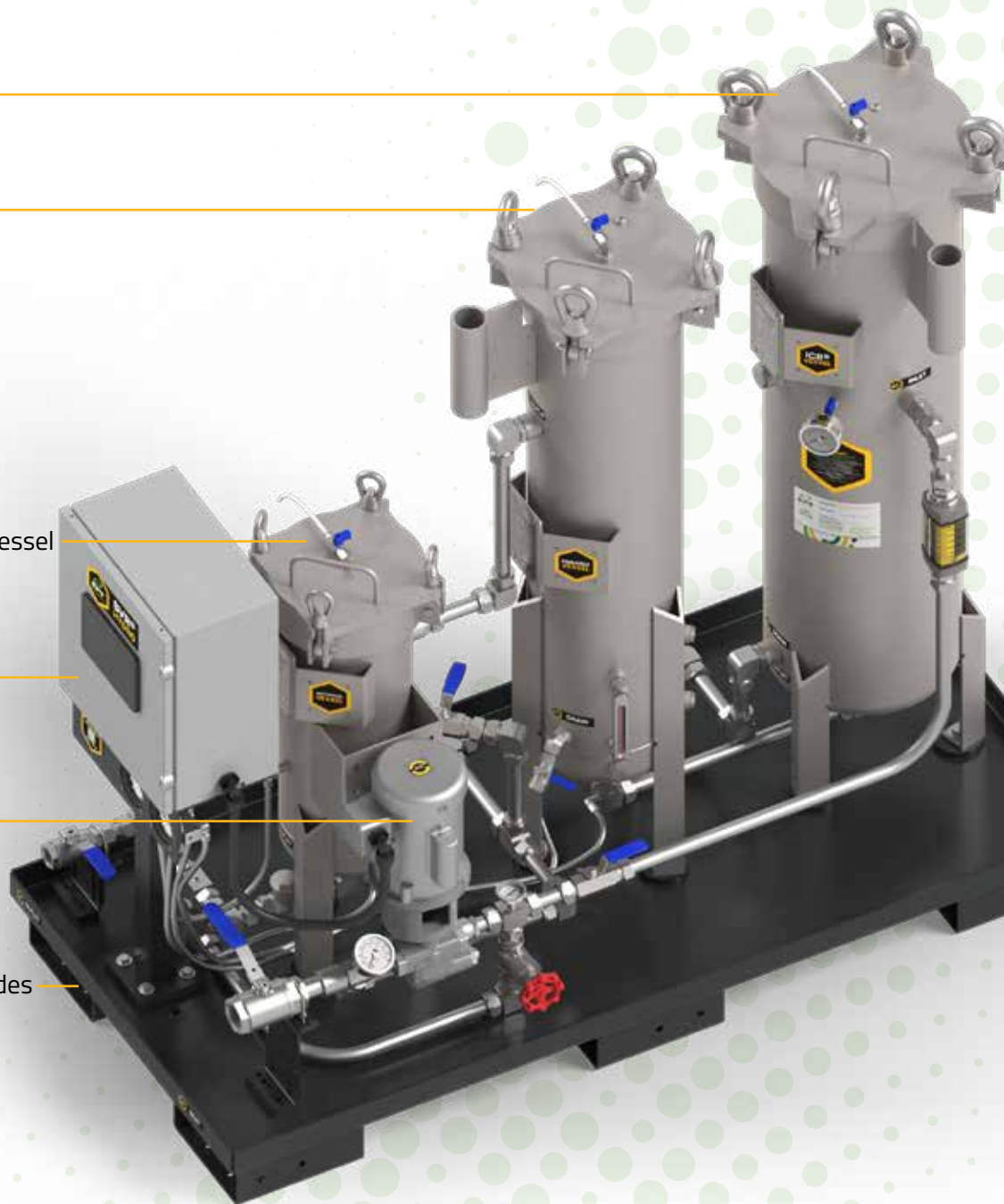
Coalescing Vessel

High-Efficiency Particulate Filter Vessel

Control Panel

Electric Motor

Steel Retention Tray with Fork Guides



## 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

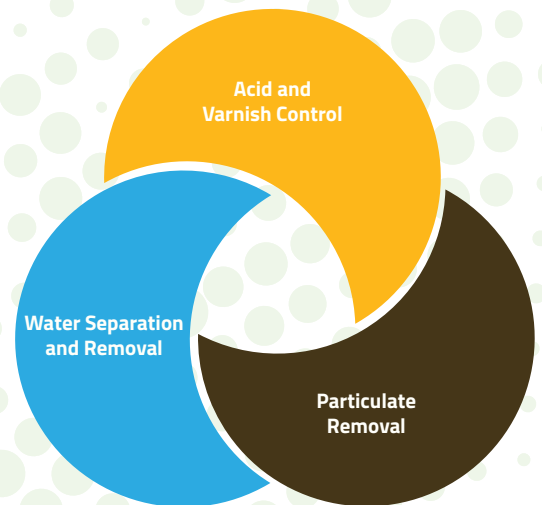
# SVR® HYDRO SPECIFICATIONS

<b>Standard Dimensions*</b> (Additional options are available upon request.)	<b>Height</b> 63" (160 cm)	<b>Length</b> 64" (163 cm)	<b>Width</b> 30" (76 cm)
<b>Connections</b>	<b>Inlet</b>	<b>Outlet</b>	
	1.5" FNPT with locking ball valve	1" FNPT with locking ball valve	
<b>Seals</b>	Fluorocarbon + Silicone		
<b>Operating Temperature</b>	86°F to 176°F   30°C to 80°C		
<b>Materials of Construction</b>	<b>Vessels</b>	<b>Tray</b>	<b>Fittings</b>
	ASME Rated/ CRN Certified Stainless Steel 304 Pressure Vessels	Carbon steel with 2-part epoxy and chemical resistant powder coating	Stainless steel instrumentation fittings
<b>Electric Motor</b>	TEFC, 56C Frame 1HP, 1450-1760 RPM		
<b>Control Panel</b>	16Ga steel enclosure, with 1/4 turn locks, NEMA 4, 12 (IP66)		
<b>Pump</b>	Cast Iron, PD Spur gear, Internal Relief, Lip Seal, Maximum inlet pressure 15 psi (1bar)		
<b>Flow Rates</b>	System Flow Rate: 10.2 gpm Particulate Removal (Fixed) ICB® Vessel 5.6 gpm   19.0 lpm MAX		
<b>Media Description</b>	<b>ICB® Filter</b>	<b>TMR® AquaPurge Coalescer</b>	<b>High Efficiency Particulate Filter</b>
	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 separator technology, complete with corrosion resistant hardware and hydrophobic synthetic media, multi-chamber technology targeting free and emulsified water, and single pass efficiencies below 200 ppm.	β1(c) ≥ 1,000 Particulate Removal  Other options available.  Email <a href="mailto:support@cleanoil.com">support@cleanoil.com</a> for more information.
<b>Electrical Options</b>	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		
<b>Fluid Compatability</b>	Petroleum and hydrocarbon based fluids.		

## SVR<sup>®</sup> HYDRO

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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