

ECR - Electrostatic Contamination Removal



Prevent EHC control valve failures and extend useful fluid life

Removes sub-micron insoluble contamination from EHC fluid (i.e. Fyrquel- phosphate ester)

Restores EHC fluid color & clarity from black to original condition

Removal of sub-micron insolubles promotes better resistivity & air release

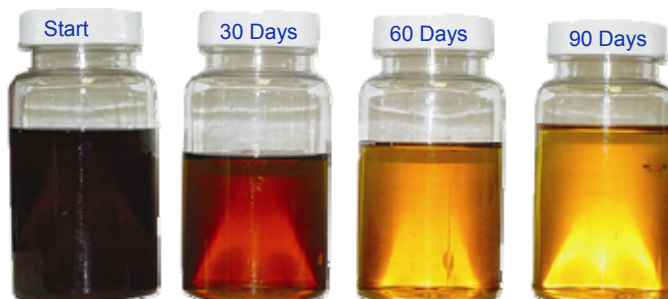
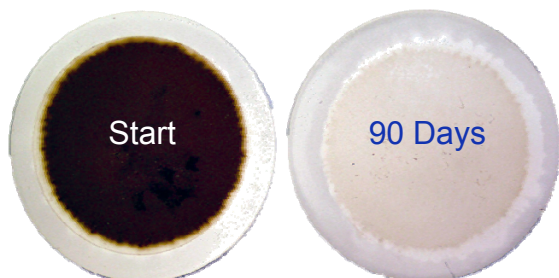
Why ECR?

Phosphate ester fluids (i.e. Fyrquel) used in turbine EHC systems are very safe fire resistant fluids that must be maintained in a narrow operating condition to ensure trouble-free operation. Pressure induced dieseling and element spark discharge generate sub-micron insoluble carbon based particles that cannot be removed by traditional particulate filtration.

The ECR combines a high voltage electrostatic field with a proprietary collector element design to remove the sub-micron insoluble particles that turn EHC fluids black and compromise fluid resistivity and air release properties. ECR rapidly removes the insoluble contaminant to effectively restore fluid condition to original color & clarity.

ECR Model Sizing Recommendations	
Model	Reservoir Volume / Condition
ECR 4000	Reservoir ≤ 400 gal., (1514 l) Maintenance Mode
ECR 8000	Reservoir ≤ 400 gal., (1514 l) Recovery Mode* Reservoir > 400 gal., (1514 l) Recovery or Maintenance Mode*

* ECR 8000 contains two collector elements and has a doubled flow rate compared to ECR 4000. This allow the ECR 8000 to quickly remediate systems with high levels of sub-micron contamination.



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FILTRATION

ECR SIZING & SPECIFICATION GUIDE

Model	ECR 4000	ECR 8000
Dimensions		
Length	42 ¼", 1073 mm	56 ¼", 1429 mm
Width	27 ¼", 692 mm	27 ¼", 692 mm
Height	57", 1448 mm	57", 1448 mm
Weight	309 lbs, 140 Kg	494 lbs, 224 Kg
ECR Elements		
Dirt Holding Capacity	15 lbs / 6.8 Kg per Element	
Change Interval	Approximately 4,000 Hours	
Elements	1 per change	2 per change
Connections Detail (BSP Connections Available Upon Request)		
Inlet	1" MNPT	1" MNPT
Outlet	1" MNPT	1" MNPT
Mechanical & Electrical Specifications		
Flow Rate	5.0 gpm / 18 lpm	10.0 gpm / 37.5 lpm
* Electrical Service (standard)	120VAC 50Hz Single Phase	120VAC 50Hz Single Phase
Max Allowable Suction Line Pressure Loss	6 Psi, 12.2 Hg Vacuum	6 Psi, 12.2 Hg Vacuum
Max Allowable Water Level	< 500 ppm for Maximum Efficiency	< 500 ppm for Maximum Efficiency
Electrical Motor (standard)	½ Horsepower	¾ Horsepower
Pump Type	Gear Pump	Gear Pump
High Voltage Capacity	12,000 V	12,000 V
Control Enclosure	NEMA 4 Enclosure Ensures Weather Resistance Without Additional Protection	NEMA 4 Enclosure Ensures Weather Resistance Without Additional Protection
Seals	Viton	Viton
Sample Port	Lob Bleed Valves	Lib Bleed Valves



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