



ECR® 10000 PRODUCT BULLETIN

Best-in-class integrated EHC fluid chemistry management solution that conditions EHC fluids to the requirements outlined in ASTM D8323-24.

4 in 1 complete EHC fluid chemistry management solution

Certified stainless steel pressure vessels

ECR® 10000 is a skid-mounted kidney loop filtration system designed for phosphate ester fluid, primarily electro-hydraulic control (EHC) applications, equipped with four proprietary filtration technologies to achieve fluid standards as defined in ASTM D8323-24.

The four filtration technologies include:

- ECR Electrostatics
- Patented ICB® Ion-exchange
- High-efficiency particulate removal
- TMR® N2 water removal

EXTEND YOUR EHC FLUID LIFE

ECR 10000 decreases air entrainment, improves fluid colour, and increases resistivity, which is integral in managing phosphate ester fluid quality. In conjunction with TMR N2 for water removal, comprehensive fluid chemistry management is achieved, which eliminates the need for chemical flushes when maintained over time.



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ECR 10000 QUICK REFERENCE GUIDE

PHASE 3

DISSOLVED CONTAMINATION REMOVAL
Patented ICB ion-exchange filtration targeting dissolved contamination removal.

PHASE 2

SUB-MICRON PARTICULATE REMOVAL
Electrostatic filtration targeting sub-micron (<4 micron) particulate removal.

PHASE 4

FINAL SOLID CONTAMINATION REMOVAL
High-efficiency particulate filtration targeting the removal of contaminants that have come out of solution during phase two and three.

PHASE 1

WATER CONTENT MANAGEMENT
TMR N2 high-purity nitrogen water removal, eliminating factors that cause oxidation, maintaining water content ≥ 200 ppm and ≤ 500 ppm.



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ECR 10000 INCLUDES

- 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
- Skid mounted low footprint kidney loop system that does not demand an outage or downtime for installation



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ECR 10000 SPECIFICATIONS



MODEL	ECR10000
HEIGHT	60" (152 cm)
HEIGHT WITH CRANE	94" (239 cm)
WIDTH	64" (163cm)
DEPTH	30" (62cm)
WEIGHT	680 lbs (308 kg)
CONNECTIONS	1" Female NPT
MAX FLOW RATE	3 GPM (11.4 LPM)
ELEMENT QUANTITY	1 ECR Collector Element 2 ICB® Ion-exchange Filters 1 High-efficiency Particulate Filter
SEALS	Fluorocarbon
CONTROL PANEL	Weather resistant NEMA 4 enclosure
HIGH VOLTAGE CAPACITY	12,000 V (DC)
ELECTRIC MOTOR	1/2 HP, 56C Frame 1450-1750 RPM, TEFC
MOTOR STARTER	Impact resistant plastic enclosure NEMA 12 / IP65 Rated
PUMP	Cast Iron, PD Spur gear, Internal Relief, Lip Seal, Maximum inlet pressure 15 psi (1 bar)
MAX SUCTION LINE PRESSURE LOSS	6 psi, 12.2 inches Hg (Vacuum)
MOISTURE REMOVAL – TMR N2	≥97% high purity nitrogen, eliminating ingress of atmospheric water and lubricant contact with oxygen
TARGET WATER LEVEL	200 - 500 ppm for maximum efficiency
FLUID COMPATIBILITY	Phosphate ester-based fire-resistant fluids (EHC fluids)
ELECTRICAL OPTIONS (STANDARD OFFERING)	60 Hz, 1750 RPM 120 V ac, 1P 208-230 V ac, 1P 460-480 V ac, 3P 50 Hz, 1450 RPM 110 V ac, 1P 220 V ac, 1P
ELECTRICAL OPTIONS (NON-STANDARD)	Additional voltages can be applied but will require additional assembly and costs. Please connect with your local Sales Representative for more information.

