



# ECR® 10000

## PRODUCT BULLETIN

Best-in-class integrated EHC fluid chemistry management solution that conditions EHC fluids to the requirements outlined in ASTM D8323-21.

### MEET THE NEW AND IMPROVED ECR® 10000

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 D8323-21.

#### The four filtration technologies include:

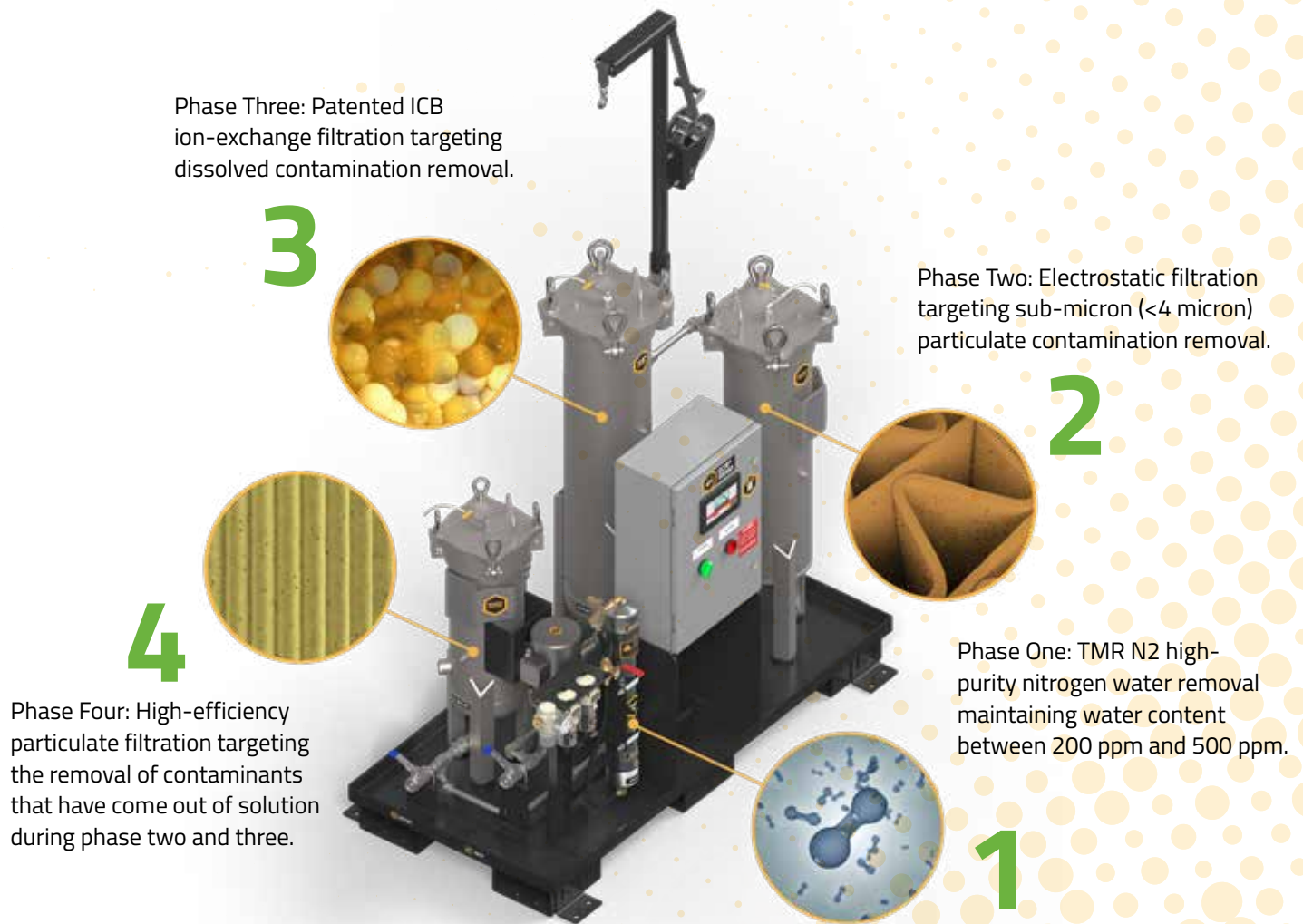
- Electrostatics
- Patented ICB® Ion-exchange
- High-efficiency particulate removal
- TMR® N2 water removal

#### EXTEND YOUR EHC FLUID LIFE

ECR 10000 improves fluid colour, increases resistivity and removes acids and varnish, integral in managing phosphate ester fluid quality. In conjunction with TMR® N2 for water removal, comprehensive fluid chemistry management is achieved, eliminating the need for chemical flushes when maintained over time.



# ECR 10000 QUICK REFERENCE GUIDE



## ECR 10000 INCLUDES

- Complete set of filters required for the initial clean up and maintenance mode
- EPT Clean Oil Fluid Technical Center fluid 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
- Certified stainless steel pressure vessels
- Skid mounted low footprint kidney loop system that does not demand an outage or downtime for installation



## EHC FLUID CLEAN-UP AND MAINTENANCE MODE CONSUMABLE REQUIREMENTS

	PART NUMBER	CLEAN- UP MODE CONSUMABLES	CLEAN-UP MODE	MAINTENANCE MODE CONSUMABLES	MAINTENANCE MODE
ICB® FRF ION-EXCHANGE FILTER	602210A	8	Changed every two (2) weeks, for the first eight (8) weeks or until fluid is confirmed to meet ASTM D8323-21 targets.	2	Once fluid targets are achieved, filter change timelines extend to every three (3) months.
ECR® COLLECTOR	600990	4	Changed every two (2) weeks, for the first eight (8) weeks or until fluid is confirmed to meet ASTM D8323-21 targets.	1	Once fluid targets are achieved, Collector change timelines extend to every three (3) months.
HIGH-EFFICIENCY PARTICULATE FILTERS	601844	4	Changed every two (2) weeks, for the first eight (8) weeks or until fluid is confirmed to meet ASTM D8323-21 targets.	1	Once fluid targets are achieved, filter change timelines extend to every three (3) months.
PNEUMATIC PARTICULATE FILTERS	601265	1	Changed every six (6) months.	1	Changed every six (6) months.
PNEUMATIC COALESCER FILTERS	601514	1	Changed every six (6) months.	1	Changed every six (6) months.
ELECTROSTATIC VESSEL O-RING	602444	1	Suggested spare.	1	Suggested spare.
ICB VESSEL O-RING	602444	1	Suggested spare.	1	Suggested spare.
MECHANICAL VESSEL O-RING	602428	1	Suggested spare.	1	Suggested spare.





## ECR 10000 SPECIFICATIONS



MODEL	ECR10000
HEIGHT	60" (152 cm)
HEIGHT (WITH CRANE)	96" (244 cm)
WIDTH	64" (163 cm)
DEPTH	30" (62 cm)
WEIGHT	680 lbs (308 kg)
CONNECTIONS	1" Female NPT
MAX FLOW RATE	3 GPM (11.4 LPM)
ELEMENT QUANTITY	1 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	1/2HP, 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)	<b>60 Hz, 1750 RPM</b> 120 V ac, 1P 208-230 V ac, 1P 460-480 V ac, 3P <b>50 HZ, 1450 RPM</b> 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.



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