

LR-Series

Varnish Removal & Fluid Purification

Treatable Fluids

- Lubricating oil
- Hydraulic oil
- Phosphate ester
- Machining oil
- Diesel fuel
- Vegetable oil
- EDM fluid
- Dielectric fluids
- Turbine oil
- Many other non-conducting fluids



The ISOPur **LR-Series** is the smart purification solution for fluid flow rates in the 30 to 150 GPH (100 to 600 LPH) range. The LR-Series contains ISOPur's patented Balanced Charge Agglomeration (BCATM) technology, which maintains hydraulic and lubricating fluids in pristine condition and *prevents/removes the buildup of sludge and varnish*. BCATM is paired with the intelligence of SmartPakTM, which automatically senses fluid condition and adjusts accordingly.

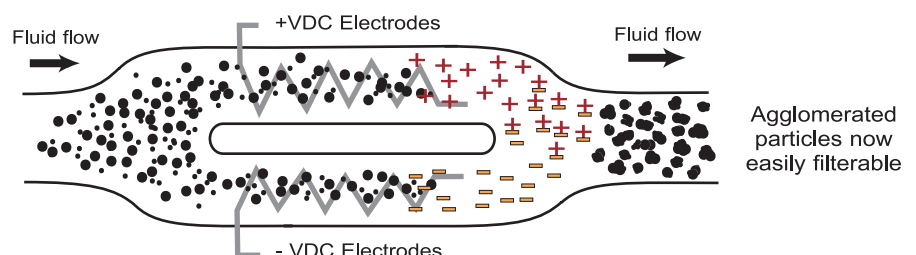
What is BCATM?

Balanced Charge Agglomeration works by pumping non-conducting fluids past electrodes that ionize contamination particles equally positive (+) and negative (-). The oppositely charged particles are mixed, attract to each other, and grow in size. These agglomerated particles are then easily removed by traditional filtration methods.

LR-Series Features

- Contaminant removal to the sub-micron level
- Functional with water present
- Prevention of sludge and varnish formation
- Extends life of equipment
- Removal of oxide insolubles and biological contamination
- Removal of ferrous and non-ferrous contamination
- Highest flow rates in the industry

BCATM Process



LR-Series Standard Specifications



LR-Series PLC Display

SmartPak™ Features

SmartFlow

- Automatic temperature, pressure, & flow sensing
- Optimizes flow rate

Filter Minder

- Filter change auto-reminder
- Unusual flow/pressure alarms

SmartView

- Displays real-time conditions
- Easy custom programming

	USA	International
Flow rate	30 to 150 GPH	100 to 600 LPH
Dimensions (H x W x D)	43in x 20in x 24in	108cm x 52cm x 61cm
Servicing area (H x W x D)	55in x 32in x 36in	140cm x 81cm x 91cm
Filter change area	24in from top of unit	61cm
Weight dry	132 lbs	60 kg
Weight wet	165 lbs	75 kg
Pump discharge pressure	12 to 80 PSIG	0.8 to 5.5 Bars
Fluid temperature range*	65 to 200 F	18 to 93 C
Minimum fluid flash point	140 F	60 C
Pump type	Positive displacement	
Electric motor	ISOPur	
RPM	900 to 1800	
Power	0.5 hp	0.37 Kw
Mains supply (Volts/Hz)	115-480/60	230-400/50
Amps	Dedicated 15 Amp branch service	
Fluid viscosity*	2 to 220cSt at 40 C	
Ambient humidity range	Up to 95% non-condensing	
Pre-filter	ISOPur custom	
Collection cartridge	ISOPur custom	
Transportation & storage	0 to 132 F	-18 to 55 C
Suction connection	0.5" NPT	1.27 cm
Discharge connection	0.5" NPT	1.27 cm

