



ISOPur Launches HR Agglomerator™ Improves Fluid Filtration While Removing Sludge & Varnish

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The ISOPur Fluid Technologies, Inc. has recently completed development of the [Agglomerator™](#) fluid conditioning system that utilizes ISOPur's patented Balanced Charge Agglomeration (BCA) technology. The [Agglomerator™](#) significantly improves filtration performance on lubricating, hydraulic and other non-conductive fluids used in most industrial machinery. The [Agglomerator™](#) also cleans machinery internals over time, preventing and removing sludge and varnish deposits. The system is capable of flow-rates of up to 1200 gallons per hour, and is designed for easy integration into existing systems.

In addition to hydraulic and lubricating oils, BCA technology has also been proven effective on cutting/machining oils, phosphate esters, and vegetable oils, removing contaminants of many varieties, including sub-micron particles, products of oxidation, ferrous and non-ferrous metals, and bacteria.

The [Agglomerator™](#) will improve system lubricity and cleanliness, and will prevent problems with servo valves, control valves, bearings, metering orifices, regulators, seals and machinery internals. Using BCA can also improve the "demulsibility" of fluids allowing for effective water separation and removal.

ISOPur systems provide a significant return on investment by reducing downtime and maintenance requirements, extending the life of capital equipment, and reducing fluid consumption and waste disposal. The need for chemical flushes are also minimized or eliminated through the use of ISOPur's BCA technology.

"Servo valves and bearings are vital to machine performance and are often the sources of failure in critical machinery, resulting in costly equipment downtime, higher repair and maintenance costs, and lost production", explained Gerald L. (Gerry) Munson, BCA inventor and Chief Technology Officer at ISOPur.

"When sub-micron particles within the lubricating fluid get trapped in the extremely small clearances between the valves, the particles act like an adhesive, causing the servo valves to stick and often fail. Often times, this brings production to a costly halt. The backbone of the BCA technology is the ability to remove sludge and varnish," says the inventor.

"What's exciting is the [Agglomerator's](#) ability to transform lubricating oil into a capital asset that can be used again and again without replacement," said Munson. "Plant management and operators no longer have to be concerned about small particles or worry about internal deposits, rust and corrosion, or chemical flushing. What's more, they will find that ISOPur's technology keeps hydraulic fluids and lubricating oils better than new, year after year without replacement," said Munson.

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