ONE EYE INDUSTRIES
The Leader in Industrial Magnetic Filtration

NEW DESIGN:

Dual Vessel Magnetic Bag Filtration Unit

The **OEI Dual Vessel Magnetic Bag Filtration Unit** combines advanced magnetic filtration with high-capacity bag filters in a robust, dual-stage design. Designed with an inside-out flow path, this system delivers superior removal of ferrous and non-ferrous contaminants from 100+ microns down to and below 1 micron in size with 99+% efficiency. Employing the Filtration Unit results in exceeding ISO fluid cleanliness standards, extending fluid life, reducing maintenance costs, and protecting critical equipment across a range of applications. Built for 25+ years of service life, the system delivers fast ROI and long-term reliability in the most demanding industrial environments.

Key Benefits

→ **Dual-Stage Contaminant Removal**
Captures ferrous and non-ferrous particles from 100+ microns down to and below 1 micron using both magnetic and mechanical filtration.

→ **Prolonged cleaning cycle – 6 to 12 months cycle**

→ **Cleanable filter elements**

→ **High Contamination Holding Capacity**
Each magnetic element captures 6–12 lbs. (2.75 to 5.5 kg) of contaminants per linear foot, with total system capacity up to 864 lbs. (390kg).

→ **Reduced Fluid Oxidation and Improved Fluid Cleanliness**
Removal of iron and steel particles minimizes oxidation and degradation of oil- and hydrocarbon-based fluids. Exceeds ISO cleanliness standards, reducing wear on equipment components.

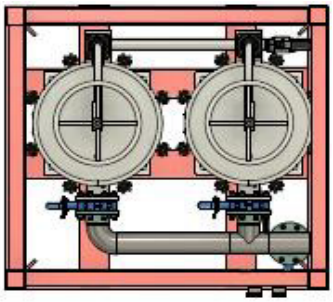
→ **Quick, Tool-Free Maintenance**
Swing bolt closures and pressure gauge indicators enable fast, safe servicing of magnetic elements and bag filters.

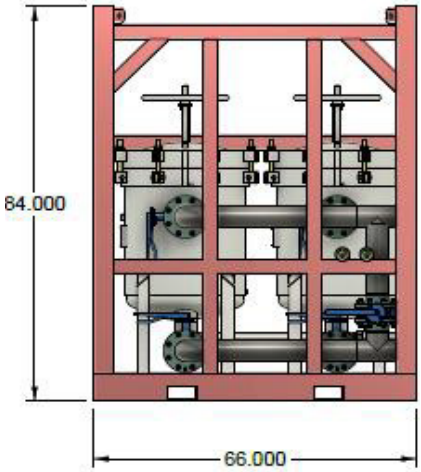
→ **Versatile Application Range**
Ideal for filtration of diesel, lube oil, hydraulic fluid, turbine oil, coolant, and process water in industrial environments.

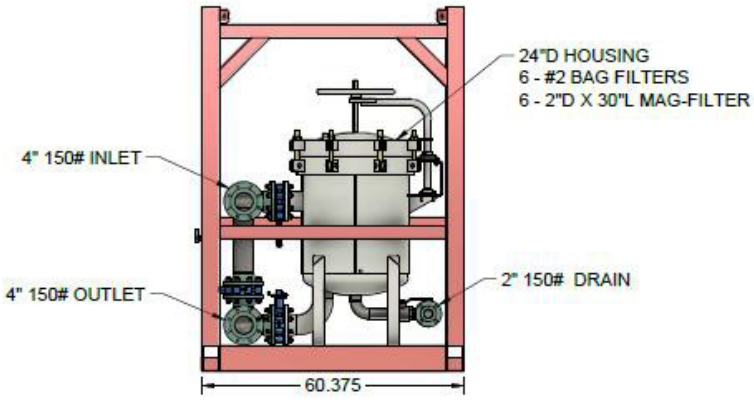
→ **Durable, Long-Life Construction**
Built to ASME Section VIII, Div. 1 standards with corrosion-resistant 316SS and epoxy-coated carbon steel frame — designed for 25+ years of service.

→ **Fast Return on Investment**
Reduced filter consumption, extended component life, and minimized labor deliver ROI within 6–12 months.

Custom sizes available







Dimensions: 66" W x 60" D x 84" H; approximately 29,000 pounds dry.

Technical Specifications

Model: 8KMBF-24D-FLN-4

Product Name: OEI Dual Vessel Magnetic Bag Filtration Unit

Category	Specification
System Type	Dual-vessel magnetic + bag filtration unit
Flow Rate	500 GPM per vessel (1900 LPM)
Design Pressure	150 PSI (10 bar / 1034 KPAG)
Design Temperature	-20°F to 225°F (-29°C to 107°C)
Filter Configuration	6 x #2 bag filters (3 per vessel)
Magnetic Filters	OEI 32RC28C512 – 2" D x 28" L rare-earth elements (1 per bag)
Port Size	4" RFWN 150# flanged ports
Vessel Diameter	24" stainless steel housings
Flow Design	Inside-out filtration flow path
Operation Mode	Operate vessels individually or in parallel; full system bypass available
Housing Material Options (M.O.C.)	Carbon Steel, 304SS, 316SS, and others
Closure Type	Swing bolt with EPDM O-ring seal
Fasteners	SA 193 B7 / SA 194 2H zinc-plated bolts and nuts
Design Code	ASME Section VIII, Division 1
Internal Finish	Pickled and passivated
External Finish	Pickled, electropolished, and passivated
Frame	Carbon steel, epoxy coated
Contaminant Capacity (Total)	Up to 864 lbs / 390 kg (based on magnetic element saturation)

For more information visit oneeyeindustries.com, contact our head office in Canada at (403) 242-4221 or email quotes@oneeyeindustries.com