

Smart Drum

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Designed to recover fluids and precipitates from the purge of the smaller K-MAG units such as the K-MAG12 & K-MAG35. Our **Smart Drum Plus** performs the same function for K-MAG75, 125 & 250 units.

Features and Benefits

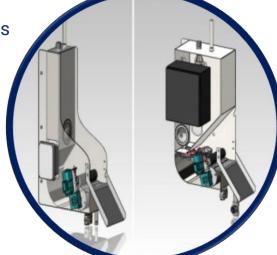
- · Recovers valuable process fluids.
- · Complete Recovery/Removal of suspended solids.
- High intensity rare-earth magnets that are 10 times more powerful than conventional magnets.
- Fully automatic, self-cleaning operation saves labour.
- Compact design saves valuable floor space.

Materials of Construction:

- Body: SS 304 or SS 316
- Drum Shell: SS 304 or SS 316
- Bolting: SS 304 or SS 316

Design Information

- Max Temperature: 77°C (170°F) or 104°C (220°F)
- Min Operating Pressure: 140 kPa (20 psi)
- Max Operating Pressure: 690 kPa (100 psi)





Tel: 289-362-6108 Toll Free: 1-855-593-730

Website: www.kfactorfilter.com

System Description

The Smart Drum (Plus) is an in-line, fully automatic fluid and precipitate recovery system designed to complement the Maggie magnetic separators to remove ferrous (i.e. magnetic) particles.

The Smart Drum (Plus) consists of a stainless-steel body that contains a magnetic drum made of the same high intensity rare earth magnets as used in the K-MAG filters. The magnetic drum removes all ferrous suspended solids from the fluid expelling a dry cake of those solids via a conveyor system. Reclaimed clean fluid is recycled back to the system.

Filler Operation

Backwash fluid that contains solids from the K-MAG separator flows into the Smart Drum (Plus) through its top-mounted inlet connection entering the primary containment chamber where system pressure is reduced.

The fluid is then gravity fed to a secondary chamber. A small gap between the magnetic drum and chamber bottom ensures all solids are captured by the drum and the clean fluid continues out a purge pipe that can either lead back to the system or into a separate holding tank.

The captured solids continue turning with the drum where they are first compressed; this squeezes out any remaining fluid and creates a dry cake of captured solids. A scraper removes the dry cake from the magnetic drum forcing the solids onto an exit chute for recovery or disposal.



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