



Magnetic Drawer-In-Housings

Manual Clean, EZ-Clean, Self-Cleaning & Continuous Clean

TRAMP METAL

TG-03B

All models available with Ceramic or Rare Earth tube assemblies Rare Earth models feature IMI's exclusive UHI-50™ Rare Earth circuit

Application Introduction:

- Designed for ferrous metal separation in dry processing systems
- Magnetic separation is achieved with magnetic tubes assembled in a drawer
- Tubes are aligned on alternating centers for multiple row drawer configurations forcing the product flow in a zig-zag pattern while contacting the magnetic tubes
- The cascade effect ensures maximum tramp metal separation by causing product to have repeated and intimate contact with magnetic tubes
- As ferrous metal enters the magnetic field, it is captured by the tubes and separated from the product flow
- The tubes must be cleaned regularly to prevent build-up and wash-off of the collected ferrous metal

Manual Clean Drawer-In-Housings:

- An economical solution for applications with low levels of tramp metal contamination
- Flanged housing with two or more banks of magnetic grate tube assemblies on alternating centers
- To clean the tubes you simply open the door, pull each bank of tubes out and wipe the metal off the tubes with a shop rag or gloved hand



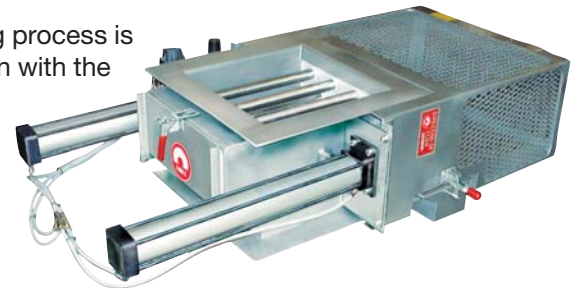
EZ-Clean Drawer-In-Housings:

The EZ-Clean design speeds up and simplifies the cleaning process, making frequent cleaning requirements user-friendly. To clean the tubes, the operator pulls two handles on the front of the housing which slides the magnetic drawer out of the product flow. As the drawer is pulled out, the tubes pass through special seals which wipe off accumulated metal into a catch pan located under the wiper seal plate for proper disposal.



Self-Cleaning Drawer-In-Housings:

IMI's Self-Cleaning Housings are ideal for remote magnet installation locations, applications requiring frequent cleaning and fully automated processing systems. The cleaning process is solenoid activated and can be controlled from a remote location with the flip of a switch. The cleaning cycle is completed in a matter of seconds. The air-actuated stripper seal assembly discharges collected tramp metal into a catch pan as the drawer opens.



Continuous-Cleaning Drawer-In-Housings:

IMI's Continuous-Clean Housings are ideal for remote magnet installation locations, applications requiring frequent cleaning and fully automated processing systems. The cleaning process is continuous and does not require the product flow to be stopped. The cleaning cycle is completed in a matter of seconds. The air-actuated stripper seal assembly discharges collected tramp metal into a leak-proof enclosure with a discharge chute that ensures clean operation and isolation of possible hazardous materials.



Key Markets

Mid-stream magnets for dry, free flow powders to granular products; i.e. food, feed, grain, plastics, chemical

Related Products

Magnetic Tubes & Grates, Large Tube Housings, The Ox, Clean-Flows, Pipe Magnets

All Photos And Drawings Represent The Products At The Time Of Publication (06/08)

Magnetic Drawer-In-Housings

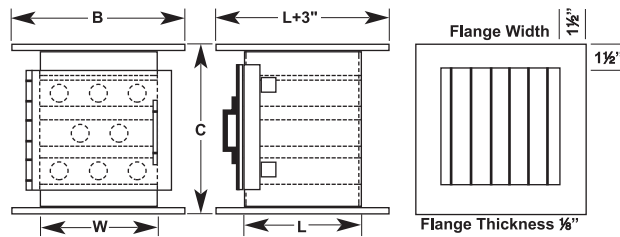
Manual Clean Drawer-In-Housings

Manual Clean (MC) Features & Specifications:

- All welded stainless steel housing
- Ceramic or Rare Earth grate magnet assemblies
- Standard inlet/outlet lengths from 6" to 16" in 2" increments
- Standard inlet/outlet widths from 6" to 16" in 2" increments
- Leak resistant Neoprene gasket on door
- DE-STA-CO door latch for positive seal
- Available in 2 or 3 row magnet configurations
- Magnetic tubes are located on 2" centers within each row
- Rows are offset with the tubes on alternating centers of 2" from row to row

Manual Clean Options:

- Food grade finish and construction
- Custom designed inlet and/or outlet transitions
- Tubes located on 3" centers for difficult flow products
- EZ-Clean grates to speed up the cleaning process
- Wear resistant coating for abrasive products
- Custom designed housings (round or rectangular)



EZ-Clean, Self-Cleaning & Continuous Clean Drawer-In-Housings

EZ-Clean, Self-Cleaning & Continuous Clean Drawer-In-Housings are ideal for ferrous metal separation in a wide variety of dry processing applications. As ferrous metal passes through the magnetic field, it is held to the tubes and separated from the product. The metal must be cleaned from the tubes on a regular basis to prevent build-up and subsequent wash-off back into the product flow.

These designs features a seal plate with specially designed wiper seals to remove collected metal from the magnetic tubes. When the drawer is unclamped (EZ-Clean) or actuated (Self-Cleaning) gas shocks or springs open the drawer and move the seal plate out over the collection pan. Once the seal plate has moved, the drawer is opened until it stops. This opening motion wipes collected metal from the tubes until it reaches a non-magnetic area located at the end of the tubes. The metal then falls off into the collection pan for proper disposal. The drawer must then be returned to the closed position before restarting the product flow.

EZ, SC & CC Features & Specifications:

- Reduced height, designed for replacing manual clean housings
- 12 Gauge 3/16", stainless steel housing and flanges
- Ceramic 8 or UHI-50™ (50 MgOe) Rare Earth magnetic tubes
- 1" diameter tubes on 2" vertical and horizontal centers
- Neoprene gasket material for dust control
- Gas shocks or compression springs for seal plate positioning
- Air cylinders, regulator, pneumatic solenoid valve (SC Only)
- FDA white BUNA wiper seals
- Hinged rear access door
- Collection pan for metal
- Positive locking clamps for drawer (EZ Only)
- Expanded metal guards (SC Only)
- 80-100 psi minimum to operate (SC & CC Only)
- Leak-Proof enclosure with Discharge Chute (CC Only)



EZ, SC & CC Options:

- Wear resistant tube treatment and special wiper seals for abrasive products (request OX™ literature for more information)
- Custom sizes and transitions available
- Food grade gasket material
- Finish and welding treatments available for food and sanitary grade applications
- Alternate tube spacing for special applications
- Other Stainless Steel Grades available
- Custom housing designs for magnet in hopper or angled chute installations
- Individual cleaning drawers (adds to height)
- Nema 9 solenoids (SC & CC Only)

