

Pneumag Magnet



High Intensity – Rare Earth

Technical Data

Datasheet No. 513



The Eclipse Magnetics Pneumag high intensity magnetic separator has been designed to operate in pneumatic conveying lines to provide protection against ferrous and para-magnetic contamination.

The unit contains a single double row high intensity magnetic cartridge. It is secured into its housing by quick release toggle clamps, which ensure even pressure is generated around the unique silicon-based metal-detectable seal.

The Pneumag can be incorporated into any form of pneumatic conveying line, from lean to dense phase, and can be installed at any angle from vertical to horizontal. A common installation location is at tanker discharge to inspect incoming materials.

All dry powders and granular type materials can be processed through the unit. Pneumag can operate in line pressures of +/-1 Bar, units are available up to +/-5 Bar on request, with a maximum processing line speed of 35m / sec.

A lockable tamper proof cover plate is provided to ensure only authorised personnel have access to the unit.

Cleaning

The Pneumag uses the Eclipse Magnetics 'Easy Clean' system.

To clean, simply release the quick release toggle clamps, remove the contaminated cartridge from the housing and then remove the magnetic cores from the tube assembly. All attracted contamination will be released allowing for inspection or further analysis.

Suitable Products

Dry powders and granulates.

Suitable Locations

All.

Benefits

- Easy to clean
- Tamper proof guard
- Metal detectable seal
- Reduces 'spark' risk
- Removes sub-micron sized contaminants
- Meet audit requirements
- Rare earth 9.000 Gauss

Category

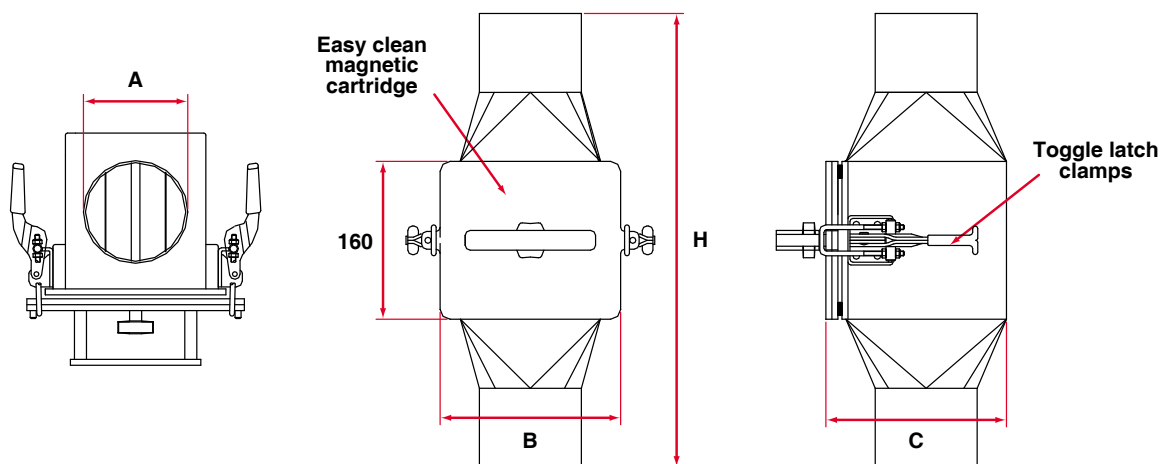
Secondary.



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Sizes Part No.	Spout Dia. A	Width B	Depth C	Height H	No. Rods	Weight (kg)
PNEU50	50 mm / 2"	150	132	460	3	8
PNEU75	75 mm / 3"	180	180	460	4	11
PNEU100	100 mm / 4"	180	180	460	4	11
PNEU125	125 mm / 5"	240	220	500	6	18
PNEU150	150 mm / 6"	240	220	500	6	18
PNEU175	175 mm / 7"	290	272	500	8	24
PNEU200	200 mm / 8"	290	272	500	8	24

All dimensions in mm

Performance

Magnetic performance

7.000* Gauss standard strength
9.000 Gauss high strength

Performance reading

On tube surface

Magnetic material

Rare earth neodymium iron boron

Magnet grade

N45 – Inspected and confirmed via hystergaph prior to use

Temperature

-20°C / +60°C

Pressure

+ / - 1 Bar

*7.000 Gauss should be selected for bread flour applications to allow for permissible iron oxide.

Materials

Housing

316 grade stainless steel

Tubing

316 grade stainless steel – aerospace quality

Other Parts

316 grade stainless steel

Surface finish

Brushed internally / externally to 1.2µm

Sealing

Metal detectable silicon rubber – dark blue, FDA approved

Toggle Clamps

Mild steel – Bright Zinc plated

Options

Stainless steel toggle clamps

High temperature samarium cobalt magnetic material +250°C

11.000 Gauss fixed grid

Overpressure to + / - 5 Bar

Double magnetic core arrangement

304 grade stainless steel

ATEX certified

Pharmaceutical specification

Safety relay switch

Flanged to suit

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