

Single Row Housed Easy Clean Magnet

High Intensity – Rare Earth



Data Sheet No 510

Product Data:-



Preface:

Eclipse high intensity magnetic Easy Clean housed grids offer unsurpassed levels of contamination removal. These units are so effective they can even remove sub micron ferrous and paramagnetic contamination from the most demanding and arduous of process environments.

The unit comprises of one high intensity Easy Clean magnetic grid. The grid is secured into the housing via tri-cone locking nuts. It is these tri-cone nuts that ensure even pressure is generated around the food grade seal.

Where cleaning time is to be kept to a minimum the units can be supplied with quick release toggle clamps or alternatively why not consider the Auto-Shuttle unit that requires no intervention. For those applications where ultimate levels of removal are required a double row system is available, data sheet 511.

It is common to have numerous units installed throughout a processing facility to ensure contamination is removed at source of generation.

All powders and granular type materials that are dry can be processed through the unit. Electrical safety interlocks can be fitted to the grid to stop the process should it be accidentally opened see fig A.

Cleaning:

This unit benefits from the Eclipse 'Easy Clean' system. This design allows all attracted contamination to be easily and quickly collected for further inspection or analysis.

Once the unit requires cleaning simply remove the outer grid securing tri-cone locking nuts and remove the grid from the housing. The grid assembly can now be separated once the central tri-cone locking nut has been removed allowing all attracted contamination to simply fall away.

Suitable Products:

Dry powders and granulates.

Suitable Locations:

Inlet/outlet points, pre/post silo and machinery points.

Benefits:

Easy to clean ■ High collection capacity ■ Reduces 'spark' risk
Removes sub micron sized contamination ■ Meet audit requirements ■ Rare Earth 9,000 Gauss ■

Category:

Secondary.



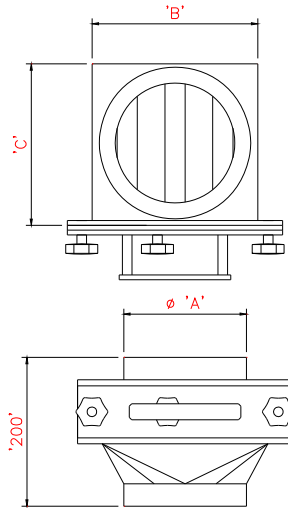
Fig A.

Single Row Housed Easy Clean Magnet

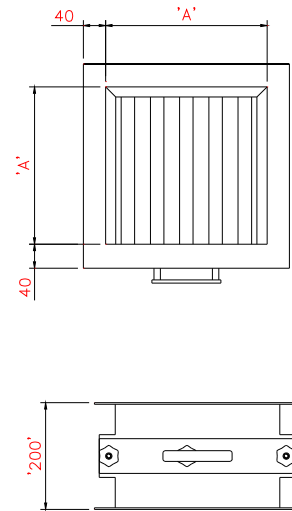
High Intensity – Rare Earth



Technical Data:- Round.



Square.



Sizes:-

Part No	Inlet/Outlet A (mm / ")	Width B	Depth C	No Rods	Weight Kgs
Round					
ECHS100	100 / 4" Ø	158	164	2	7
ECHS150	150 / 6" Ø	208	214	3	9
ECHS200	200 / 8" Ø	258	264	4	18
ECHS250	250 / 10" Ø	308	314	5	23
ECHS300	300 / 12" Ø	358	364	6	27
ECHS350	350 / 14" Ø	408	414	7	32
ECHS400	400 / 16" Ø	458	464	8	41
Square					
ECHS1010	100 / 4" Sq	108	100	2	5
ECHS1515	150 / 6" Sq	158	150	2	6
ECHS2020	200 / 8" Sq	208	200	3	8
ECHS2525	250 / 10" Sq	258	250	4	16
ECHS3030	300 / 12" Sq	310	300	5	20
ECHS3535	350 / 14" Sq	360	350	6	25
ECHS4040	400 / 16" Sq	410	400	7	29

Performance:-

All dimensions in mm

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 & confirmed via hystergaph prior to use

Temperature:

-20° C/ + 90° C

Pressure:

+/- 0.2 Bar

Materials:-

Housing:

316 Grade Stainless Steel

Other Parts:

316 Grade Stainless Steel

Surface Finish:

Brushed internally/externally to 1.2µm

Sealing:

Self adhered white foam

Tri-cone Nuts:

Brass & Moulded Plastic

Options:-

Stainless Steel toggle clamps

High temperature Samarium Cobalt magnetic material, + 250° C

Overpressure to +/- 10 Bar

Sizes up to 1000mm Ø or square

304 Grade Stainless Steel

Pharmaceutical specification

ATEX certified

Flanged to suit

Safety relay switches

Metal detectable Silicon rubber seal – Dark blue, FDA Approved

Grid support track system

Eclipse Magnetics Ltd - A Spear & Jackson Group Company

Atlas Way, Atlas North, Sheffield, S4-7QQ, England

Tel:- ++44 (0)114 225 0555 Fax:- ++44 (0)114 225 0525

e-mail enquiries@eclipse-magnetics.co.uk - Web Site www.magneticseparation.co.uk

Copyright Eclipse Magnetics 2008

