Double Row Housed Easy Clean Magnet

High Intensity – Rare Earth

Data Sheet No 511

Product Data:-

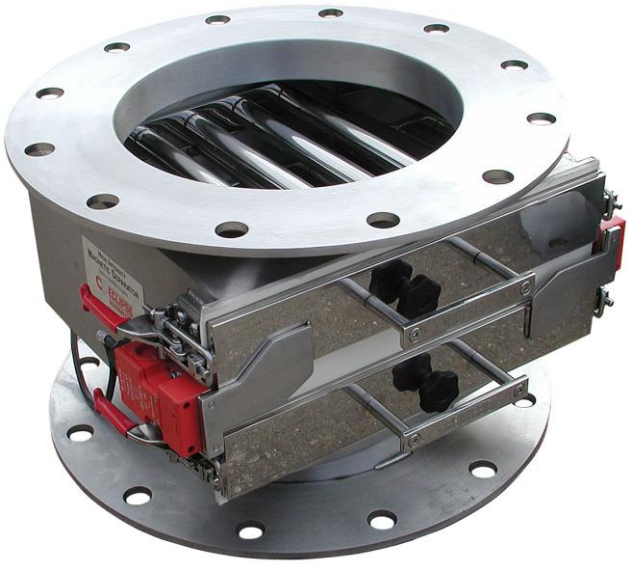

Fig A. (Bespoke design)

Preface:

Eclipse Magnetics's 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 para-magnetic contamination from the most demanding and arduous of process environments.

The unit comprises of two high intensity Easy Clean magnetic grids with the rods of each grid having an offset design for maximum efficiency. The grids are secured into the housing by tri-cone locking nuts, which ensure even pressure is generated around the food grade seal.

Where cleaning time is to be kept to a minimum consider the Auto-Shuttle unit, which requires no intervention.

Common installation locations are raw material inlet points or post silo etc. 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 each grid row to stop the process should they be accidentally opened, see Fig A.

Cleaning:

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

When the unit requires cleaning, simply remove the locking nuts and remove the from the housing. The grid assembly can now be separated by moving the central swing clamp to 'open', 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.

BSEN ISO 9001 : 2000
Certificate No. FM31278

ATEX Approved

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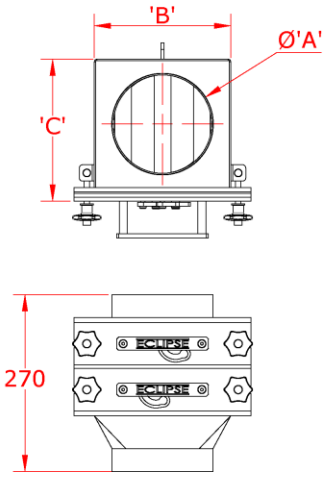
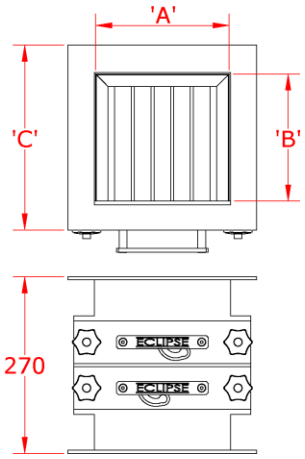
Technical Data:-

Round.



Square.



Sizes:-

Part No	Inlet/Outlet A	Width B	Depth C	No Rods	Weight Kgs
Round	(mm / ")				
ECHD100	100 / 4" Ø	158	168	2 + 1	10
ECHD150	150 / 6" Ø	208	218	3 + 2	13
ECHD200	200 / 8" Ø	258	268	4 + 3	18
ECHD250	250 / 10" Ø	308	318	5 + 4	24
ECHD300	300 / 12" Ø	358	368	6 + 5	31
ECHD350	350 / 14" Ø	408	418	7 + 6	38
ECHD400	400 / 16" Ø	458	470	8 + 7	47
Square					
ECHD1010	100 / 4" Sq	100 / 4" Sq	180	1 + 1	7
ECHD1515	150 / 6" Sq	150 / 6" Sq	230	2 + 1	10
ECHD2020	200 / 8" Sq	200 / 8" Sq	280	3 + 2	15
ECHD2525	250 / 10" Sq	250 / 10" Sq	330	4 + 3	22
ECHD3030	300 / 12" Sq	300 / 12" Sq	380	5 + 4	26
ECHD3535	350 / 14" Sq	350 / 14" Sq	430	6 + 5	30
ECHD4040	400 / 16" Sq	400 / 16" Sq	480	7 + 6	34

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 & confirmed via hystergraph prior to use
Temperature:	-20º C/ + 90º 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:	FDA approved silicon rubber
Swing Clamps:	304 grade stainless steel

Options:-

High temperature Samarium Cobalt magnetic material, + 250º 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	Grid support track system

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