Double Row Housed Grid Easy Clean Magnet

High Intensity – Rare Earth

Datasheet No. 511

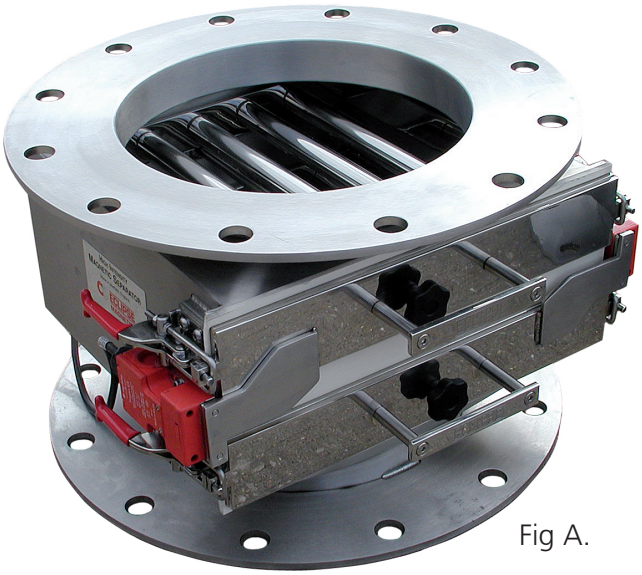

Fig A.

Eclipse Magnetics's high intensity magnetic Easy Clean Housed Grids offer unsurpassed levels of contamination removal, removing sub-micron ferrous and para-magnetic contamination from the most demanding and arduous of process environments.

The unit contains two high intensity Easy Clean Magnetic Grids with the rods of each grid offset 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.

Units can be supplied with quick release toggle clamps if cleaning time is to be kept to a minimum. Alternatively, consider the Auto-Shuttle unit, which requires no intervention.

Common installation locations are raw material inlet points and 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 dry powders and granular type materials 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 uses 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 outer grid securing tri-cone locking nuts and remove the grid from the housing. Remove the central tri-cone locking nut and separate the grid assembly 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 7,000, 9,000 Gauss

Category

Secondary protection - fines.

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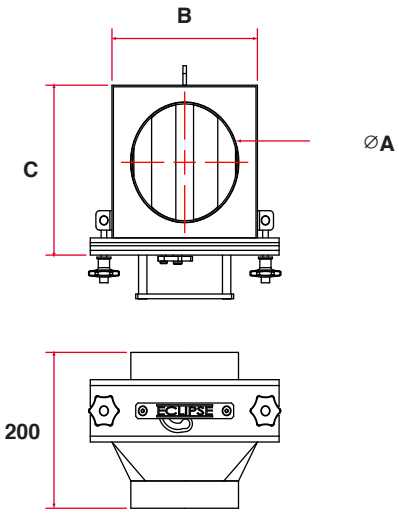
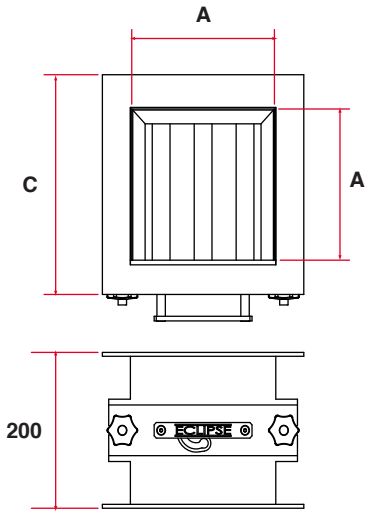
Technical Data

Round



Square



Product Information

Part Number	ØA mm	B mm	C mm	No. of Rods	Weight kg
Round					
ECHD100	100	158	168	2 +1	10
ECHD150	150	208	218	3 +2	13
ECHD200	200	258	268	4 +3	18
ECHD250	250	308	318	5 +4	24
ECHD300	300	358	368	6 +5	31
ECHD350	350	408	418	7 +6	38
ECHD400	400	458	470	8 +7	47
Square					
ECHD1515	150	150	230	2 +1	10
ECHD2020	200	200	280	3 +2	15
ECHD2525	250	250	330	4 +3	22
ECHD3030	300	300	380	5 +4	26
ECHD3535	350	350	430	6 +5	30
ECHD4040	400	400	480	7 +6	34

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 hysterograph 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 and Moulded Plastic

Options

- Stainless steel toggle clamps
- High temperature samarium cobalt magnetic material, +250°C
- Overpressure to + / - 10 Bar
- Sizes up to 500mm special sizes on request
- 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

*7,000 Gauss should be selected for bread flour applications to allow for permissible iron oxide

If you have any more questions, require technical assistance or would like a quotation, please contact us.

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