

## High intensity - Rare Earth



### **Preface:**

The Eclipse high intensity Underflow magnetic separator has been designed to operate in arduous conditions and where contamination size is relatively large e.g. nuts, bolts etc.

The unit incorporates two magnetic poles, which generate high intensity magnetic fields. The unit is secured to the chute via an integral hinge and toggle clamp arrangement. It is these toggle clamps that ensures even pressure is generated around the seal to eliminate any product leakage.

The Underflow magnet can be incorporated into any form of angled pipe or chute section. A common installation Location is raw material inlet points such as grain, rice, corn, bran and animal feed etc. Two catchment areas ensure that attracted contamination cannot be 'washed off'.

As the magnet is usually installed in angled chute sections any processed products of any size can be passed over the top of the magnet. Safety interlocks can be fitted to the magnet to stop the process should it be accidentally opened.



### **Cleaning:**

Underflow magnets are very easy to clean. Simply release the two securing toggle clamps and allow the magnet to swing away under its own weight, this will give access to the magnetic face.

All attracted contamination can now be removed by a gloved hand or scraper tool.

### **Suitable Products:**

Dry and semi dry powders, granulates and lumps etc.

### **Suitable Locations:**

All angled chute sections.

### **Benefits:**

Easy to clean ■ Maintains full flow ■ High collection capacity ■  
Reduces 'spark' risk ■ Removes 'tramp' sized contaminants ■  
Meet audit requirements ■ Rare Earth deep magnetic field ■

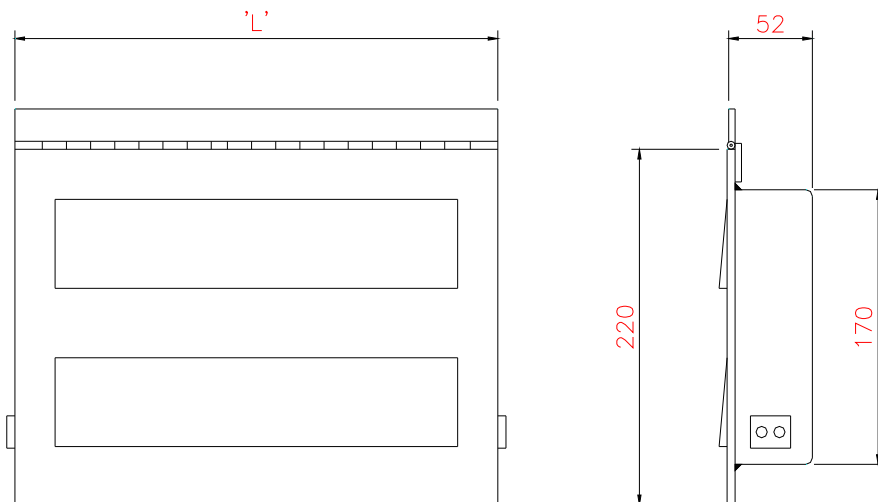
### **Category:**

Primary.



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## Technical Data:



### Sizes:-

Part No	Length L	Weight Kgs
	(mm / " )	
UFM200	200 / 8"	10
UFM250	250 / 10"	13
UFM300	300 / 12"	15
UFM350	350 / 14"	17
UFM400	400 / 16"	20
UFM450	450 / 18"	23
UFM500	500 / 20"	27

All dimensions in mm

### Performance:-

<b>Magnetic Performance:</b>	3,500 Gauss
<b>Performance Reading:</b>	On magnetic front face surface
<b>Magnetic Material:</b>	Rare Earth Neodymium Iron Boron
<b>Magnet Grade:</b>	N35 – Inspected & confirmed via hystergaph prior to use
<b>Temperature:</b>	-20° C/ + 90° C

### Materials:-

<b>Housing:</b>	316 Grade Stainless Steel
<b>Other Parts:</b>	316 Grade Stainless Steel
<b>Surface Finish:</b>	Brushed finish
<b>Hinge:</b>	304 Grade Stainless Steel
<b>Toggle Clamps:</b>	Zinc plated Mild Steel

### Options:-

- High temperature Samarium Cobalt magnetic material, + 250° C
- Sizes up to 2000mm long
- 304 Grade Stainless Steel
- ATEX certified
- Ceramic magnetic material
- Pharmaceutical specification
- Stainless Steel toggle clamps

