

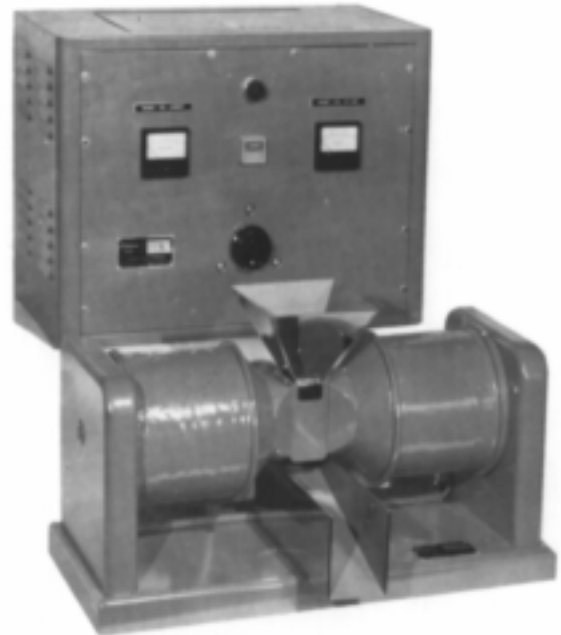


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## LABORATORY HIGH INTENSITY WET MAGNETIC SEPARATOR

The Model 3 x 4 WHIMS is a high intensity wet magnetic separator designed to separate paramagnetic (weakly magnetic) materials from non-magnetic materials. The separator is widely used for research, production control and laboratory testing. Ferromagnetic materials can be removed initially by operation at low current settings.

Feeding is accomplished by introducing about 50 - 100 grams of material, pulped with water, to provide a slurry of 15% to 60% solids (by weight), into the separating chamber with media in place and coil current at the desired settings. Magnetic material will be retained in the chamber after flushing with water while non magnetic material will be collected in a product collection pan. The magnetic material can then be washed from the cell into a separate pan after the coil current has been turned off.



The static cell type separator is equipped with a 310 cc removable separating chamber that can accept a variety of interchangeable media including soft iron spheres, grooved settl plates and stainless steel wool. The soft iron sphere medis is supplied with the unit in the following diameters for separations ranging from fine to coarse; 6.4 mm, 12.7 mm, and 19.0 mm. The magnetic flux density is 20 kilogauss (max.) with soft iron sphere media in place and 3.8 kilogauss in the open air gap without media. Variable magnetic field intensity is controlled by the input coil amperage.

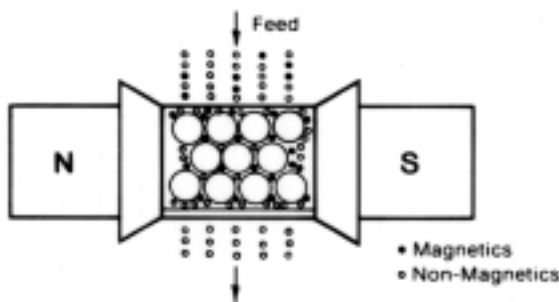


Illustration of Magnetic Operation In Separator

**EXAMPLES OF SEPARATION:**  
**Iron ore** - Investigation and production control  
**Clay Beneficiation** - Production control  
**Ilmenite stripping studies**  
**Chromite**  
**Uranium ores/residues**  
**Gold residues**  
**Other industrial mineral** applications requiring WHIMS  
**Other industrial applications involving magnetic or para-magnetic material**

CATALOG NUMBER	DESCRIPTION	POWER REQUIREMENT	SHIP WEIGHT	SHIP VOLUME
060F-001	WHIMS 3 x 4	115 V/1 Ph/60 Hz	830 lbs.	14 Ft <sup>3</sup>
060F-001	WHIMS 3 x 4	230 V/1 Ph/50 Hz	830 Lbs.	14 Ft <sup>3</sup>