

CLOSED LOOP AIR CLASSIFIER MODEL ACL

SGM Magnetics' Air Classifiers are high-performance gravity-based separation systems specifically designed to treat the waste output from Eddy Current Separators (ECS). These closed-loop systems effectively separate light and heavy fractions by removing soft, light contaminants such as foam, textiles, and dust, while concentrating heavier materials like rubber, wood, and dense plastics. The result is a cleaner, higher-purity stream of materials, which significantly improves the efficiency and accuracy of downstream sensor-based sorting and enhances the recovery of valuable metals such as Zurik and copper wire.

HOW IT WORKS

Positioned between the ECS and sensor-based separators, SGM Air Classifiers use controlled airflow and gravity-based separation to classify material based on density and aerodynamic properties. Light contaminants are drawn away and removed, while heavier materials remain in the flow for further processing. Thanks to a multi-stage separation design, the system ensures optimal classification of complex waste streams, concentrating valuable heavy

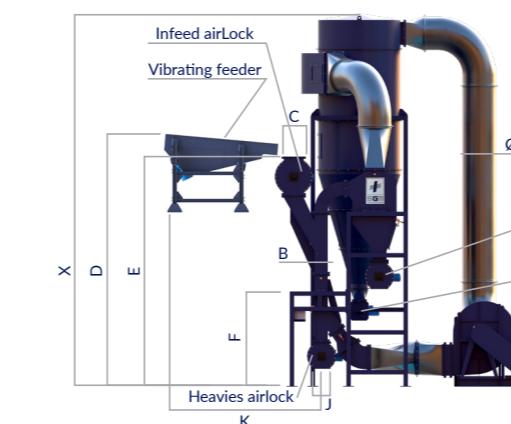
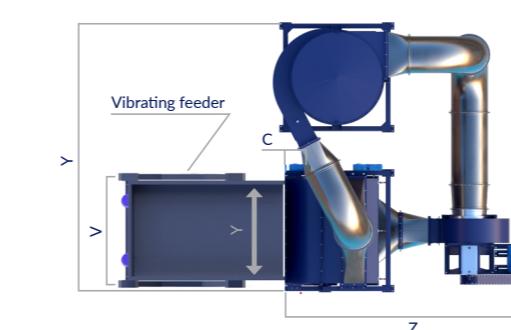


fractions that often make up over 60% of ECS waste weight, but less than 50% of its volume. This improves the quality and consistency of materials entering the next stage of processing.



TYPICAL APPLICATIONS

- Automotive Shredder Residue (ASR)
- Electronic scrap (WEEE)



MODEL	FAN MOTOR	INFEED AIRLOCK	LIGHTS AIRLOCK	CYCLONE AIRLOCK	CAPACITY*
ACL 43"	30 HP	2 HP	2 HP	2 HP	4-5 t/h
ACL 86"	60 HP	3 HP	1.5 HP	3 HP	8-10 t/h

ACL AIR CLASSIFIER LARGE FOR ASR 20 mm - 3/4" TO 100mm - 4"

	43X12	86X12
A	1100 mm - 43"	2150 mm - 85"
B	330 mm - 13"	330 mm - 13"
C	457 mm - 18"	457 mm - 18"
D	5600 mm - 220"	6000 mm - 236"
E	5280 mm - 207"	5280 mm - 207"
F	2000 mm - 78"	2000 mm - 78"
G	406 mm - 16"	414 mm - 16"
J	330 mm - 13"	330 mm - 13"
K	3020 mm - 119"	3925 mm - 154"
P	558 mm - 22"	762 mm - 30"
V	900 mm - 35"	2000 mm - 78"
X	8088 mm - 318"	8560 mm - 337"
Y	3758 mm - 148"	5595 mm - 220"
Z	6474 mm - 255"	6189 mm - 243"

(*) Depending on application, material specific weight and metal content in material