

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

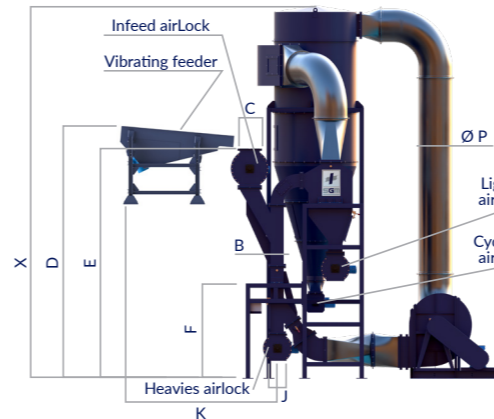
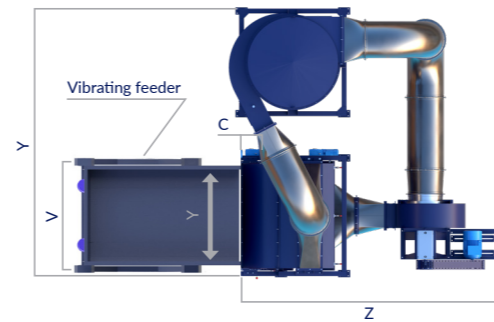
Positioned between the ECS and sensor-based separators, SGM Air Classifiers use controlled air flow and gravity-based separation to classify material based on density and aerodynamic properties. Light contaminants are drawn away and removed, while heavier materials remain in the flow for further processing. 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