

RAM FLAT® AIR FILTRATION SYSTEMS

For protection of the operator's environment, RAM FLAT offers several standard and customized Air Filtration Systems for research and industrial applications alike.

Individually designed to be used with any RAM FLAT Compactor model, the **CRN** and **HANC** Air Filter Systems will remove harmful particulate, dangerous vapors - or both.

COMPLETE DESIGN

- A minimum of 100 FPM (feet-per-minute) air velocity when the crushing chamber door is open, the same as a fume hood!
- Interlocked blower control with the RAM FLAT Compactor Controls
- A coarse pre-filter is included to extend the useful life of the HEPA filter or Charcoal Adsorber trays
- Choose where you want the Air Filter housing to be installed in relation to the RAM FLAT Compactor
- A large air inlet and plenum design assures an even dispersion of air against the filter element
- A vibration isolation connection is included to connect the RAM FLAT to the filter housing
- A manometer is included to constantly monitor the static pressure across the filters
- Explosion-proof blower motors are available

SYSTEM CHOICES

CRN:

- Featuring a full 4 square feet of Industrial grade HEPA (High Efficiency Particulate Absolute) filter elements, the **CRN** removes airborne particulate down to 0.3 μm (micron) in size at 99.97% efficiency.

CRN-C:

- Engineered with eight removable trays of activated charcoal, the **CRN-C** effectively adsorbs odors and vapors. Options include elements for the collection of mercury or radioactive isotopes.

CRN-HC:

- For applications calling for *both* particulate and vapor control, the **CRN-HC** situates the HEPA filter elements and eight trays of charcoal, in series for maximum protection.

HANC:

- Designed to adhere to the AN SI-N 510 standards, this nuclear grade filter system will handle the most demanding applications. Features include Bag-in/ Bag-out, laminar flow, DOP testing ports and filter monitoring lights.

CRN



Air Filtration Systems Comparison Chart

Model	CRN	CRN-C	CRN-HC	HANC
Application	Particulate	Vapor	Particulate & Vapor	Particulate & Vapor
Air Velocity	100 FPM (min.)	100 FPM (min.)	100 FPM (min.)	100 FPM (min.)
Air Flow	800 CFM (min)	800 CFM (min)	800 CFM (min)	1330 CFM (min)
90% Pre-Filter	2 x 24 x 24 inch	4 x 24 x 24 inch	2 x 24 x 24 inch	4 x 24 x 24 inch
99.97% HEPA Filter	11.5 x 24 x 24 inch	not applicable	11.5 x 24 x 24 inch	11.5 x 24 x 24 inch
Charcoal Filter	not applicable	8, 1 x 18 x 18 inch	8, 1 x 18 x 18 inch	6, 1 x 16 x 24 inch
Inlet Collar Size	9 inch diameter	9 inch diameter	9 inch diameter	9 inch diameter
Blower Outlet	6.5 x 10.75 in.	6.5 x 10.75 in.	6.5 x 10.75 in.	5 x 4 in.
Blower Motor	1 HP, TEFC	1 HP, TEFC	2 HP, TEFC	2 HP, TEFC
Dimensions	67 L x 28 w	61 L x 28 w	102 L x 28 w	153 L x 30 w
Shipping Weight	390 pounds	590 pounds	790 pounds	1300 pounds

CRN-HC



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