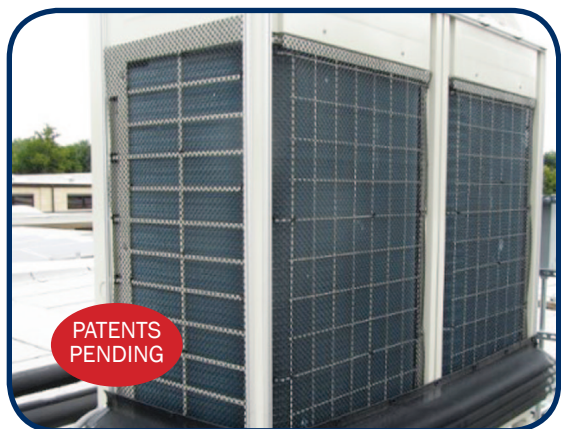


# Hail Master™ Universal Hail Guard

Protecting your condenser coils and equipment from hail damage and air borne debris is vital for eliminating downtime and maintaining the operational efficiency of your equipment.



Hail Master enables optimal airflow for efficient heat rejection while providing condenser coil protection from hail and airborne matter that will clog your coils. Available with multiple fastening and filter options; mix and match individual components according to your needs:

- Hail Master Semi-Rigid Mesh
- Track Mount Kit (Aluminum or PVC)
- Track Connectors (Magnetic or Non-magnetic)
- Custom/Std Cottonwood Filter Screens
- Mid-Support Track

## Hail Master Semi-Rigid Mesh prevents intrusion of damaging hail. Don't leave your equipment unprotected!

- Made of highly durable semi-ridged polymer — UV and weather resistant to withstand temperature range of -60 F to 200F.
- Melt point is 212F-275F. Flash Point 640F. Service life up to 10 years with a 5-year Limited Warranty.
- Cover a single coil / intake opening or, cut down in the field to cover multiple coil faces or openings.



Filter screen with hail guard stand-off frame



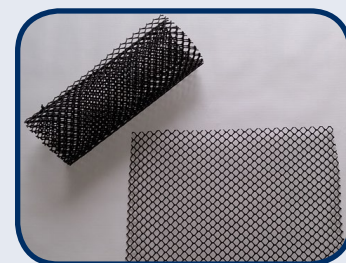
Hail master mesh with retractable filter screen

## Mesh Calculation: How Much is Needed?

Simply measure the width (inside dimension) of the opening you need to cover. Add an additional 4 inches to that number for each opening needing coverage.

Hail Master mesh is sold in 48" H rolls.

Using standard wire cutters, mesh is very easy to cut to size in the field.





## Need year-round protection? Add an optional Cottonwood Filter Screen!



Combine both the Hail Master mesh and our Cottonwood Filter screens for **complete coil protection from hail and airborne debris.**

Custom cottonwood filter screens are factory-made to your required specific dimensions. Screens feature a vinyl, non-stick coating. Fibers bond together at each intersection to prevent cottonwood seed and other fibrous matter from getting tangled in the mesh.

Remove debris quickly and easily without removal of screen. Using a broom, brush, shop vacuum or garden hose; even the rain will rinse them clean! A fiber-reinforced outer binding provides superior strength and durability. Grommets and quick release fasteners are included with each order.



Contact Air Solution Company or an authorized distributor for help in properly measuring your equipment and designing a filter/hail protection solution to meet your needs.

### **Stand-alone Cottonwood Filter Screens as hail guards — save \$ thousands vs. expanded metal or composite hail guards**

Cottonwood Filter screens feature an extremely strong and durable textile mesh with a “rip-stop” feature — enabling it to stand-up to sleet and hail while providing protection against cottonwood seed, leaves, bugs, and other fibrous airborne matter.

However, because the mesh is flexible in nature, **be sure that the back of the filter is mounted well away from the surface of the coil** (as on a V-Coil unit). This ensures when the mesh gives under the impact of hail, it can't reach and transfer an impact impression onto the coil. (offers similar protection as installed hail guard stand-off frame).



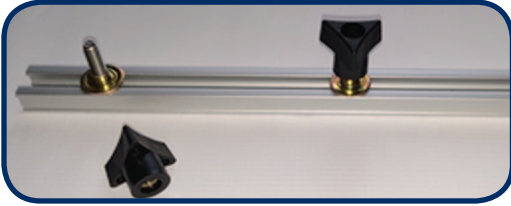
## Make the perfect connection with optional Mounting Track and Fastener styles to suit every application



**Mounting Track** - Track is available in **Anodized Aluminum** or **PVC** and includes mounting screws.

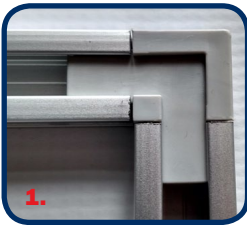
**PVC** - for use in low to medium velocity air movement applications or where the back of the filter will be supported under the flow of air i.e., louvers, rooftop units, chillers.

- Available in 54" lengths, UV and weather-resistant.
- Use with twist lock fasteners only.



**Anodized Aluminum** - for use in high velocity air movement applications where the filter is unsupported under the flow of air i.e., intake hoods, cooling towers, etc.

- Available in 48" lengths, UV and weather resistant
- Use with either Twist Lock or Spin Knob Fasteners



### Track Mount Connectors

**1. Corner Connector** - join track to create a 90-degree connection for square or rectangular rigid frames.

- Compatible with both PVC and Aluminum track
- Available in bags of 6 connectors — enough to create up to three square or rectangular frames.

**2. "T" Connectors** - join track end-to-end or create a 90-degree "T" connection for vertical or horizontal supports.

- Compatible with both PVC and Aluminum track.
- Available in bags of 6 connectors — enough to create up to six 48" Aluminum supports, six 54" PVC supports or, connect up to twenty-four lengths end-to-end.



**3. Magna-Track™** - No Drill...No Screws...No Problem!

- Durable track connectors with high energy magnets create a powerful magnetic mounting system ideal in applications where mounting screws are not desired.

## Determining Track and Connector Requirements for Your Application

54"- long PVC track and 48"- long Aluminum track will naturally require a *DIFFERENT* number of track pieces and connectors per application. Measure outside dimensions (including surrounding flange) to determine overall circumference of the opening you want to cover.

### Track Calculation:

**Step #1:**  $(W + H) \times 2 =$  total circumference

**Step #2:** Divide total circumference number by 48" for total lengths of Aluminum track; Divide total circumference by 54" for total lengths of PVC Track.

Any total length number greater or less than a whole number must **ROUND UP** to the next highest whole number.

### Example:

For a 50" x 38" opening:  $50" + 38" = 88" \times 2 = 176"$  circumference.

Divide:  $176" / 54"$  (PVC) = 3.25 lengths. Round up to order 4 lengths of PVC track.

Divide:  $176" / 48"$  (Aluminum) = 3.6 lengths. Round up to order 4 lengths of Aluminum track.



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