

# RABScreen Air Intake Screens

## Why choose polypropylene?

### Washable

- Easy to clean smooth fibres
- Woven Synthetic Fibre
- No fibre shedding like nonwovens or blown fibres

### Heat Resistant

- Environments up to 250 degrees (121c)
- Heat treated against shrinkage
- UL Classified as to Flammability Only
- Federal Motor Vehicle Safety Specification – FMVSS302

### Impervious to Harsh Conditions

- UV protected in black
- Nonreactive to chemicals/corrosive environments
- Nonporous – won't absorb from environment

### Antimicrobial Protection

- Embedded in fibre – won't wash out
- Continuous protection of filter surface – 5 year testing

### Filtration Properties

- Very low resistance to airflow (.02-.04 in. w.g.)
- Variety of weaves available for increased fibre surface area
- No need to replace – single cost
- Electrostatic properties enhance particle capture -- static electricity, by definition, does **not** flow like current, and therefore **cannot** be discharged into a filter frame or the environment; electrostatic media has an inherent charge which is enhanced by any amount of air flow and never loses this ability.

### Applications

- FDA approved for food processing applications – beverage dispensers, ice makers, fan guard bonnets
- Condenser fin protection – refrigeration/freezer systems
- HVAC/R equipment at the OEM level
- HVAC/R equipment in Residential/Commercial/Industrial applications
- Equipment protection for electronics, telecommunications, transportation

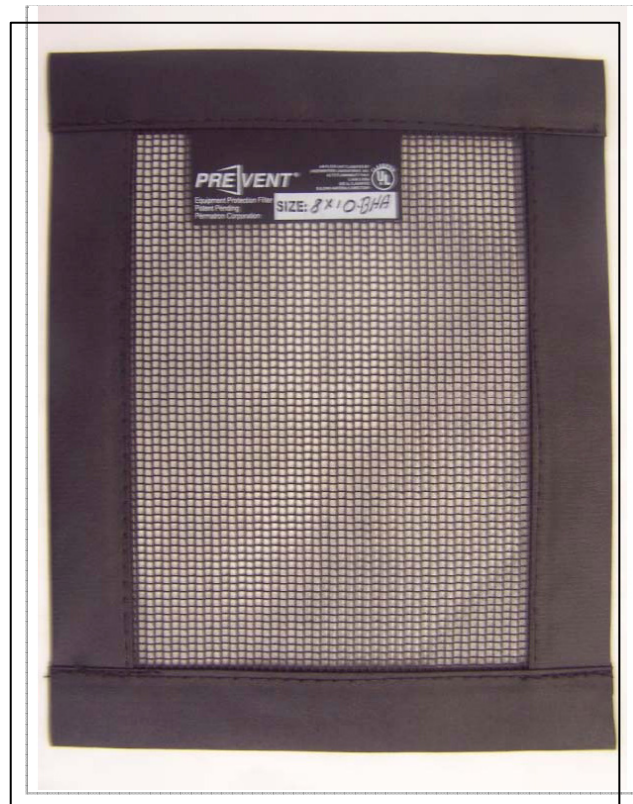
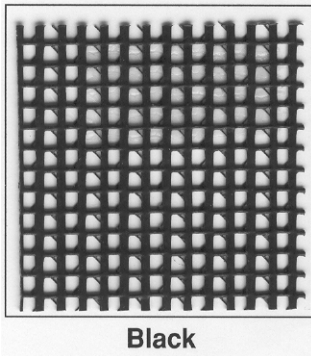


## **MODEL BHA -**

## **BLACK PVC COATED HIGH ABRASION MEDIA**

BHA is a single layer of 9 x 9 1000 denier multi polymer coated polyester mesh used for high abrasion and oversized applications. Filters with both dimension over 60" must use BHA media. Low weight and resists corrosion. U/L Class 2, 10 Year UK Warranty. Fabric meets the flame resistance requirements of NFPA-701 test standards.

- High Grab Tensile Strength -- MD 115 / CD 105 – ASTM D 4632 Test Method
- High Trapezoid Tear Strength -- MD 55 / CD 40 – ASTM D 4633 Test Method
- Mullen Burst Strength – 240 – ASTM D 3786 Test Method
- Heat Sealability
- Excellent Cleanability
- Rot Resistance
- Weather Resistance/UV Protected
- Abrasion Resistance
- Media Weight 10gms/m<sup>2</sup>
- Media Construction 18 x 18 PPI
- Yarn Type 12 mil FR Green PP





## ***BHC12 “Black Honeycomb”***

Type of Weave: Honeycomb

Media Material: Polypropylene

Media Color: Black

U.L. Classified as to Flammability Only Federal Motor Vehicle Safety Specification – FMVSS302

Yarn Diameter: 12 mil

Media Thickness: 70 mils

Yarn Count (warp/fill): 30/32 Media

Weight: 14gms/m<sup>2</sup>

Temperature Rating: Operating 180°F; Melting 325-350°F

Tensile strength, wrap direction: 294 kg cm

Tensile strength, fill direction: 260 kg cm

Burst strength: 31BAR

Open area%: 40%

Roll Weight: approximately 77 kgs

Roll Dimensions: approximately 900mm x 1650mm

Roll Size: approximately 900mm x 22800mm

Initial Resistance: .02 in. w.g. Dust Holding Capacity: 55 grams

Holding Capacity: 55 grams

Avg. Arrestance Efficiency: 38%

Air Perm. (M/S): 0.58

All spec information above is approximate and offered for planning purposes only.

Polypropylene is a petroleum industry by-product, which has excellent strength and is very resistant to abrasion. It is light in weight with a specific gravity of 0.90 and, therefore, will float on water. Excellent resistance to most acids and alkalis. Good resistance to bleaches and solvents. Not attacked by mildew. Good resistance to aging, indirect sunlight and abrasion. White/Natural polypropylene is an FDA approved component, and can be used in food processing applications. Black polypropylene media is also UV protected, and can be used in conjunction with UV lights. The media will not disintegrate, like other filter medias.

# RABScreen

[www.rabscreen.com](http://www.rabscreen.com)

## Protecting the air that you breathe

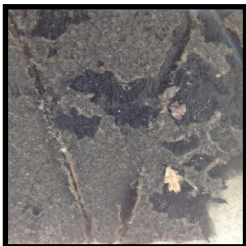


The pictures on the left represent the typical state of coils in the UK environment.

Clogged with pollen, seeds, feathers and other debris they cease to be efficient from the moment they start working.



Even if you clean regularly you risk mechanical damage and may force the debris deep between the fins.



You **will have** some of this equipment:

- AC Condensers
- Air handling units
- Cabinet coolers
- Chillers
- Compressors
- Cooling fans
- Cooling towers
- Supply air louvres



Go and have a look at the plant on your estate and call **RABScreen** today on 0800 999 5750 and see just how much money you could be saving.



**“When the coil becomes fouled with dirt and grime, it cannot provide complete or adequate heat transfer, a process that was predicated on a clean coil. The equipment’s compressor senses this, and tries to overcome it by going to a higher system pressure. This consumes greater levels of electricity”**

*Troubleshooting and Servicing Modern Air Conditioning and Refrigeration Systems,*

**Professor John Tomczyk, from Michigan’s Ferris State University**



The above units are protected with a **RABScreen**. This debris would have contaminated the equipment but is now kept on the outside where it can be easily cleaned off with a hose, brush or vacuum. A low impact on airflow with a high particulate capture from this electrostatic filter

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## RABScreen for air intake protection on all systems