

The RAM Pro Active carbon filter is a professional range of filters designed with the grower in mind, this means they are guaranteed to do the job – double certified for peace of mind, easy to use, offer good value for money and they are flexible to suit your needs offering a variety of sizes.

RAM Filters are **not** full of hollow claims as made by existing competitor filters...

Guaranteed to do the job!

We use virgin Australian RC412 Carbon, widely considered to be one of the superior carbons for air filtration.

65% CTC carbon – this means the specification of RC412 carbon used takes on board 65% of its own density in volatile airborne molecules (smell).

The RC412 carbon has a very low ash content of less than 13% and is a virgin granulated product. The granulated form of this carbon means it can be compacted very tightly leaving no air spaces where organic compounds (odours) can escape.

The RAM Pro Active Carbon filter features a carbon pore size of 0.02 micron which is very high in carbon specification. Basically it means the carbon is far more absorbent to volatile organic smells and is more attractive to them making the odour element stick to them like glue and absorbed.

The Carbon filling process used in the manufacture of these filters includes inline drying and dehumidifying to make sure the carbon is in peak condition before the filter is compacted. We also use special expansion foam on the neck making sure that the compaction rate of the carbon remains high at all times. Lower quality filters have poor compaction meaning volatile smells can escape before contact with the carbon.

The filters are finished inside with a specially designed 'AirCurve' cone designed at the optimum height and shape to move the air evenly around the filter allowing the filter to evenly clean the air.

NOTE: Some filters use a sales gimmick stating you should switch the ends as the top of the filter gets used before the carbon at the base. When air is under pressure within the filter, this has been demonstrated to have no factual proof !!

Double certification for peace of mind

Every batch of carbon delivered to our factory is tested for quality and absorbency before being used in the manufacturing process and is certified. It is further tested when the filters arrive in the EU prior to sale and the batch is certified for a second time. This is a double insurance policy to ensure that the filter is of the highest possible standard and performs the task it is made for with no degradation of carbon before you buy it.

Easy to use and robust

The filters are very user friendly. Simply suspend attach and attach your ducting and off you go.

They feature an elasticated pre-filter which is easy to fit over the filter body – A spare is also supplied with **ALL** our filters.

Made from very high quality metals, these filters are guaranteed to stand up to the environment in which they are used.

Offer good value for money and flexibility to suit your needs

The Ram Pro active carbon filters feature a Carbon bed depth of 38mm offering the grower a superior product at the right price.

There are a number of different sizes that suit the air volume you need to treat. Life span depends on the volume of air pollutants in the usage environment however this can vary. If you want a shorter life product to save money, then consider purchasing a smaller filter than the size you need. If you require a long life filter then purchase a large filter. The more carbon there is in the bed, the longer it will last.

RAM Pro Filter Advantages:

Australian RC412 Carbon, considered one of the superior carbons for air filtration.

65% CTC carbon – this means the specification of RC412 carbon used take on board 65% of its own density in volatile air borne molecules (smell).

Carbon filling process used in the manufacture of these filters includes inline drying and dehumidifying to make sure the carbon is in peak condition before the filter is compacted.

Carbon bed depth of 38mm offering the grower a superior product.

Absolute Seal – Our unique carbon compaction methods and superior methods of manufacture ensures no accidental intake of unfiltered air.

Jacketed protection – An elasticated pre-filter protects from the intake of air borne particles when used in dusty conditions and prolongs the life of your filter. Thanks to the elasticated nature of the pre-filter, they are easy to replace. **We include 2 with every filter so you have a spare when needed.**

Life span depends on the volume of air pollutants in the usage environment. If you want a shorter life and save money then buy a smaller filter than the size you need.

If you require a long life filter then purchase a large filter. The more carbon there is in the bed, the longer it will last.

| Filter Size | Maximum recommended fan flow rate |
|-------------|-----------------------------------|
| 100 x 200 | 170 m ³ h |
| 125 x 475 | 350 m ³ h |
| 150 x 475 | 500 m ³ h |
| 150 x 600 | 700 m ³ h |
| 200 x 600 | 850 m ³ h |
| 250 x 600 | 1080 m ³ h |
| 315x800 | 1350 m ³ h |

| Filter Size | Maximum recommended fan flow rate |
|-------------|-----------------------------------|
| 315x1250 | 2400 m ³ h |

Technical Specification:

Top flange plate and base: 1.5mm-1.9mm Spun Aluminium

Side mesh plate: Zintec with 1.1mm hole pitch. Hole diameter 4mm

Compaction foam: Polyester polyurethane foam

Carbon retention netting: 20D vortex weave.

'AirCurve' cone designed at the optimum height and shape to move the air evenly around the filter allowing the filter to evenly clean the air.

Pressure Loss Curve

The air flow capacity of a fan is commonly measured in metres cubed per hour (m³/hr). Pressure within the ventilation system has a direct effect on the flow rate of a fan, so all fans will have a pressure loss curve contained somewhere in the literature that is supplied with the fan. Pressure is measured in pascals (Pa) and in all cases a fans maximum flow rate is measured at 0 Pa. Adding ducting and/or a filter to a ventilation system will increase the operating pressure and as such will lower the flow rate of the fan. It is critical that that you understand this in order to specify the correct filter for your area.

As a rule of thumb, when you purchase your filter, make sure it's cubic metre capacity is 20% greater than the fan output. This will assure you have the best filtration efficiency.

PA/ M3/h graphs here to show pressure loss.

