



**AIR-CONDITIONING & REFRIGERATION EQUIPMENT MANUFACTURERS ASSOCIATION of Australia**

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## **METHOD OF FILTER CLASSIFICATION**

As a section within AREMA the manufacturers and suppliers of Air Filter products recommend the following method for the benefit and assistance of those involved in the use and specification of air filters. This method offers a co-relation between current National and International testing standards and sets out a filter selection table based on these standards.

The following guidelines are to be adopted and applied by all companies for the purpose of classifying air filters.

1. The ASHRAE 52.1 Arrestance Test, Eurovent 4/5, EN779 and Australian Standard AS1324.2 Test Dust No 4 are appropriate tests to evaluate low and medium efficiency air filters and to evaluate dust holding capacity on air filters.
2. The ASHRAE 52.1 Dust Spot Atmospheric Test, Eurovent 4/5, EN779 and Australian Standards AS 1324.2 Test Dust No 1 provide equivalent results and are appropriate tests to evaluate high efficiency air filters.
3. All air filters shall be tested to the same conditions wherever possible and published test results shall include the final pressure difference and air quantity used for the test.
4. All filters shall be tested by a registered NATA, recognised ASHRAE or recognised Eurovent laboratory.
5. Published filter efficiency test results should be presented as per the classifications illustrated on the attached table. The efficiencies quoted shall be average results as used by ASHRAE, Eurovent or AS1324.2.
6. Adoption of standardisation for filter classifications in no way limits a company from promoting other filter parameters in published literature.

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## AIR FILTER SELECTION CHART

<b>Filter Class</b>	<b>Average Arrestance AS1324.2 Dust NO.4 Eurovent 4/5 EN779 Gravimetric</b>	<b>* Average Efficiency AS1324.2 Dust NO.1 ASH RAE 52 Eurovent 4/5 EN779 Atmospheric</b>	<b>Maximum Final Resistance Pa</b>
G1	A<65		250
G2	$65 \leq A < 80$		250
G3	$80 \leq A < 90$		250
G4	$90 \leq A$		250
F4		$20 \leq EM < 40$	250
F5		$40 \leq E < 60$	450
F6		$60 \leq E < 80$	450
F7		$80 \leq E < 90$	450
F8		$90 \leq E < 95$	450
F9		$95 \leq E$	450

\* NOTE: Filters which are tested with a minimum efficiency of less than 20% shall only be rated as G type arrestance filters.