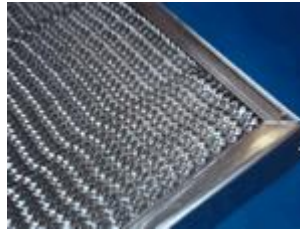


ELGEE HONEYCOMB GREASE FILTERS

Advantages of using Honeycomb Filters over Mesh Grease Filters

- › Lower Running Cost
- › Lower Pressure Loss
- › Less Duct Cleaning
- › Lower Noise Level
- › Lower Total Installed Cost



The **honeycomb** grease filter has become the preferred Australian Standard Grease Filter displacing mesh filters in most parts of Australia.

Mesh grease filters trap and accumulate solids and other combustible materials within the filter which are difficult to remove. Although mesh filters may appear to be clean on the outside they really can be harbouring a dangerous amount of combustible material on the inside.

In contrast to the mesh grease filter, the honeycomb grease filter has large smooth walled passages which can easily be cleaned using a water jet.

How Honeycomb Grease Filters Work



The Elgee Honeycomb filter media splits the incoming grease laden air into over 34,000 air streams per square metre of filter surface. Each air stream then criss-crosses similar air streams at 7 different points, creating turbulence which when combined with the 3 point turn (enforced by the flying "V" shaped core), forces grease particles to contact and adhere to the aluminium or stainless surface. This prevent grease from entering the exhaust system.

This unique Elgee design combines the highest collection efficiency with negligible pressure loss.

HONEYCOMB GREASE FILTER AIR FLOW RESISTANCE

1. 495x495x50mm Filter

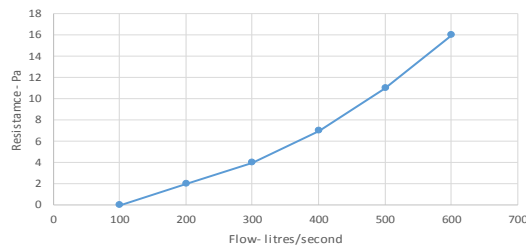
FILTER DIMENSIONS

HEIGHT: 495 mm
 WIDTH: 495 mm
 DEPTH: 50 mm
 AREA: 0.245 sqm

Table 1 - Air Flow Resistance (495x495x50mm filter)

Flow (litres/second)	Face Velocity (metres/second)	Resistance (Pa)
100	0.4	0
200	0.8	2
300	1.2	4
400	1.6	7
500	2	11
600	2.4	16

Chart 1 - Air Flow Resistance (495x495x50mm filter)



2. 394x495x50mm Filter

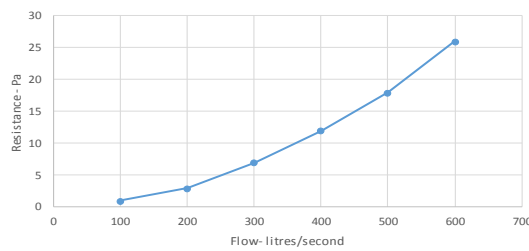
FILTER DIMENSIONS

HEIGHT: 394mm
 WIDTH: 495mm
 DEPTH: 50 mm
 AREA: 0.195 sqm

Table 2 - Air Flow Resistance (394x495x50mm filter)

Flow (litres/second)	Face Velocity (metres/second)	Resistance (Pa)
100	0.5	1
200	1	3
300	1.5	7
400	2.1	12
500	2.6	18
600	3.1	26

Chart 2 - Air Flow Resistance (394x495x50mm filter)



3. 597x597x50mm Filter

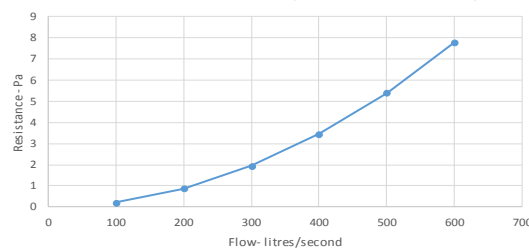
FILTER DIMENSIONS

HEIGHT: 597 mm
 WIDTH: 597 mm
 DEPTH: 50 mm
 AREA: 0.356 sqm

Table 3 - Air Flow Resistance (597x597x50mm filter)

Flow (litres/second)	Face Velocity (metres/second)	Resistance (Pa)
100	0.3	0.2
200	0.6	0.9
300	0.8	1.9
400	1.1	3.5
500	1.4	5.4
600	1.7	7.8

Chart 3 - Air flow Resistance (597x597x50mm filter)



4. 295x495x50mm Filter

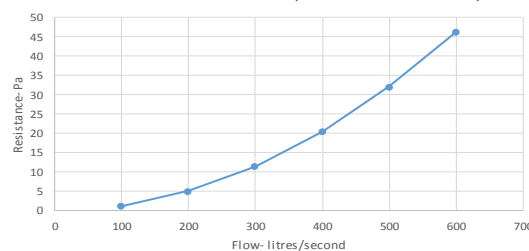
FILTER DIMENSIONS

HEIGHT: 295 mm
 WIDTH: 495 mm
 DEPTH: 50 mm
 AREA: 0.146 sqm

Table 4 - Air Flow Resistance (295x495x50mm filter)

Flow (litres/second)	Face Velocity (metres/second)	Resistance (Pa)
100	0.7	1.3
200	1.4	5.1
300	2.1	11.6
400	2.7	20.6
500	3.4	32.1
600	4.1	46.3

Chart 4 - Air Flow Resistance (295x495x50mm filter)



5. 495x622x50mm Filter

FILTER DIMENSIONS

HEIGHT: 495 mm
 WIDTH: 622mm
 DEPTH: 50 mm
 AREA: 0.308 sqm

Table 5 - Air Flow Resistance (495x622x50mm filter)

Flow (litres/second)	Face Velocity (metres/second)	Resistance (Pa)
100	0.3	0.3
200	0.6	1.2
300	1.0	2.6
400	1.3	4.6
500	1.6	7.2
600	1.9	10.4

Chart 5 - Air Flow Resistance (495x622x50mm filter)

