



The Standard for Grease Filters

The Honeycomb filter has become the Standard Grease filter by consensus displacing the cheaper mesh filters. This is because of its efficiency and its ability to be cleaned.

Mesh filters trap and accumulate solid and other combustible materials inside the filter which is difficult to remove.

It can appear clean on the outside whilst harbouring dangerous amounts of combustible material.

The Honeycomb filter has large smooth walled passages which can easily be cleaned using a water jet.

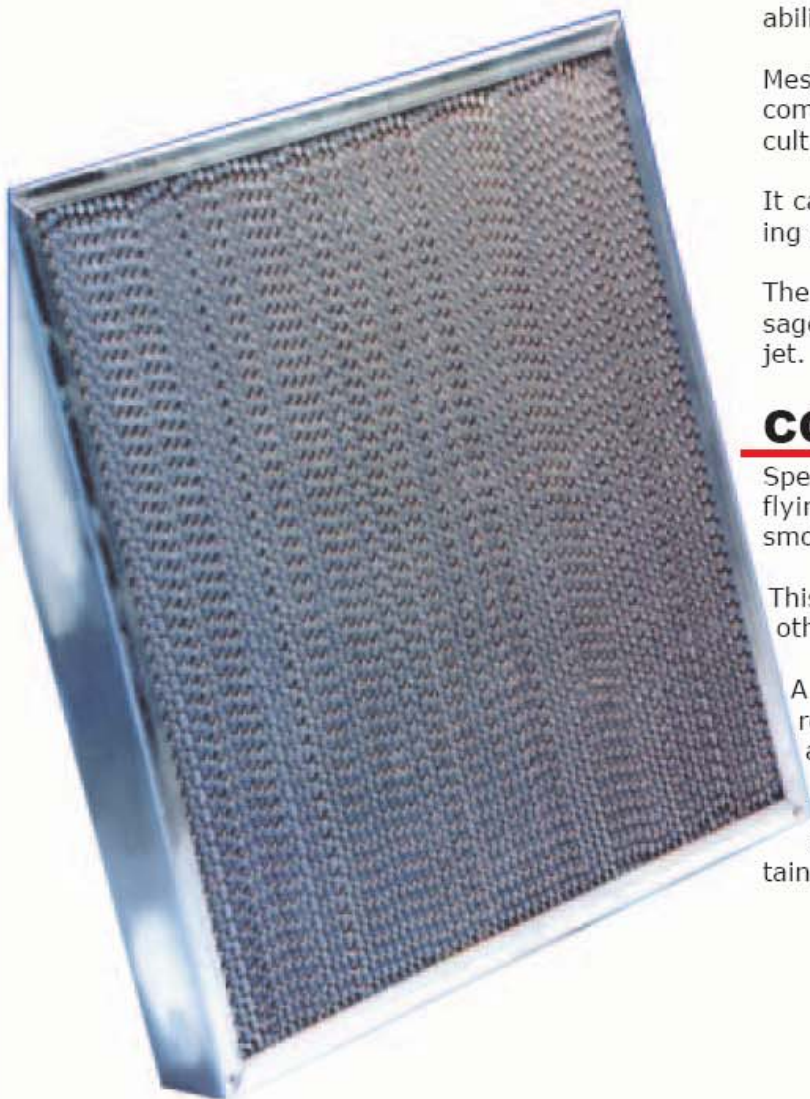
CONSTRUCTION

Special work hardening aluminium formed into a flying "V" corrugated Honeycomb creates large smooth walled passages.

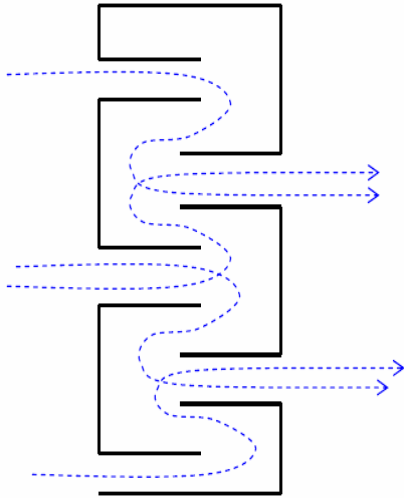
This virtually eliminates clogging so prevalent in other filter designs.

A robust 1.6mm roll formed frame channel with recessed "vee" lap joints are riveted for strength and flexibility.

Thus our filters will not crack like welded joints, and we don't rely on "vee" butt joints to maintain the shape.



Conventional Baffle Filters

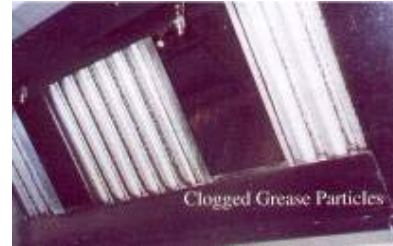


The double 'U' turn air flow curve induces high air turbulent noise and resistance to air flow, resulting in the need for over sized blowers that is noisy and high energy consumption.

Users also tend to slide a gap to between the filters in the hope to improve hood suction, however this results in the oil going straight into the ducts.

Cleaning is also very difficult due to the many enclosed compartment that shield high pressure flushing, while there is no water drainage path to allow cleaning by automated dish washers.

Typical Kitchen Exhaust Problems

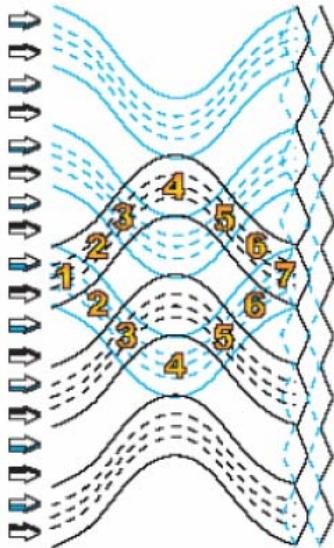


Typical filter bypass due to high blockage



Typical oil drip and leak from ducts

New Generation Grease Filter



Honeycomb media splits incoming grease laden air into over 34,000 streams per square meter. Each air stream then criss-crosses similar airstreams at 7 points creating turbulence which when combined with the 3 point turns enforced by the flying "V" shaped core, forces grease particles to contact and condense to the 25 square meters of area per square meter. This unique design creates very high collection efficiency with negligible pressure loss

Benefits

- No air turbulent noise.
- Optimum blower suction.
- Eliminate oil drips along ducts.
- Very easy to wash.
- Save blower sizing
- Save blower energy
- Save blower noise

Specification

Type	Dimension	Pressure drop @ 2 m/s	Air Stream Split ways	Contact Area (Sq M)	Oil Arrestance Efficiency	EPA Compliance	Air Volume	Weight
Honeycomb	495 x 495 x 50	0.09"wg	8,330	6.13	96%	Yes	1000 cfm	2.3 Kg
Baffle Filter	495 x 495 x 50	0.84"wg	10	0.57	nvr declared	No	1000 cfm	1.4 Kg

Case Study Performance

Option	Qty	Pressure drop @ 2 m/s	Oil Arrestance	Dust spot Efficiency	DOP Efficiency
Baffle Filter	10	0.84"wg	-	-	-
Honeycom	10	0.09"wg	96.0%	<1%	-
F58 x 6	6	-	98.7%	68%	24%
F58 x10	10	-	99.5%	90%	60%