

ESSA INDOOR ELECTRONIC
AIR FILTERS



You don't have to go to
10,000 feet for pure air

ESSA[®]

BETTER AIR TECHNOLOGY



For homes



For clubs
and venues



For offices and
industrial premises

Pure air, efficiently

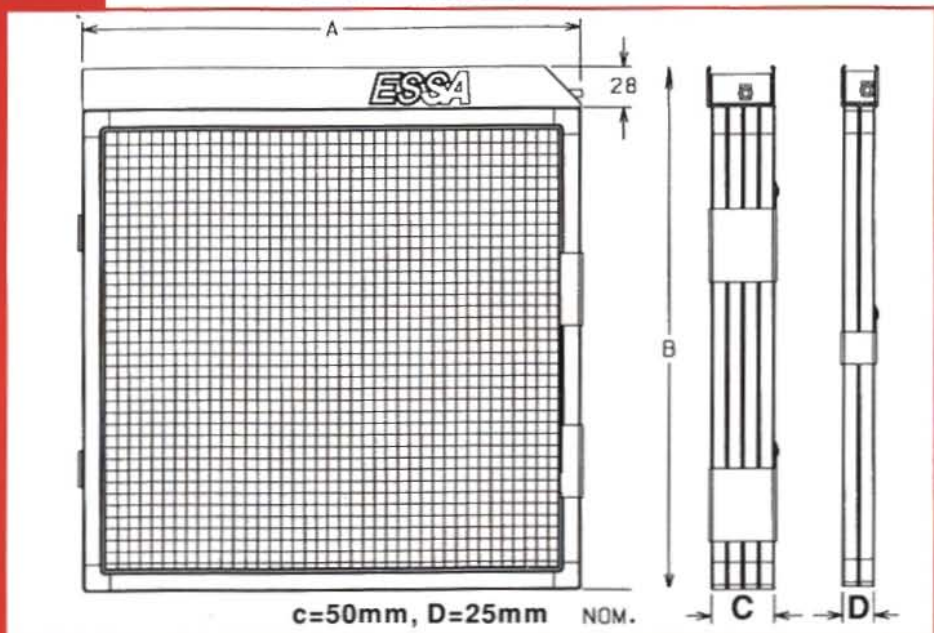
Asthma, allergies, viral outbreaks, 'sick building syndrome' ...what we can't see can hurt us.

The facts are frightening. Indoors, we inhale thousands of potentially harmful airborne particles such as *common household dust, dust mite faeces, tobacco smoke, cooking smoke, lead dust, paint pigments, pollen, hairspray, bacteria, auto emissions, vapours from fluid residues such as formaldehyde, mould, skin flakes, fungi and animal hair.*

Easily fitting into existing systems, Essa's high efficiency low pressure drop filters require low wattage to completely remove harmful airborne particles!

Certainly, there are a lot of filters on the market, but **Essa filters are non-ionising, leaving the air you breathe much healthier.**

Essa electronic air filters do a superior job of keeping your air free of dirt and disease.



Results for each face velocity were based upon approximately 30 x 1 minute samplings.
 *Estimated equivalent results for AS1324-1996 No.1 Dust.

Our filters are efficient, easy to maintain, small, light and safe. At Essa, we've worked hard to ensure that you can breathe easy.

Efficiency Results for the 25mm Essa Filter Unit (clean media)

Particle size, um	0.3-0.5	0.5-1	1-5	5+	No 1 Dust est.*
0.5 m/s	23.2%	27.0%	34.6%	76.4%	25.1%
1.0 m/s	15.8%	20.4%	27.5%	75.4%	18.1%
1.8 m/s	9.2%	17.5%	24.5%	71.1%	13.4%
3.0 m/s	6.6%	17.0%	23.9%	68.3%	11.8%

Efficiency Results for the 50mm Essa Filter Unit (clean media)

Particle size, um	0.3-0.5	0.5-1	1-5	5+	No 1 Dust est.*
0.5 m/s	49.5%	52.3%	59.0%	92.3%	50.9%
1.0 m/s	35.5%	45.1%	51.4%	91.5%	40.3%
1.8 m/s	23.0%	42.0%	50.0%	88.0%	32.5%
3.0 m/s	18.1%	41.4%	46.8%	85.7%	29.7%

* Specifications are subject to change without notice

The Performance Efficiency Data for Essa Series 600/600/25 and Series 600/600/50 Using Ambient Dust at Various Face Velocities

It runs on the less power as a 30W light globe! With Essa electronic air filters, removing harmful substances from your air has never been so easy.

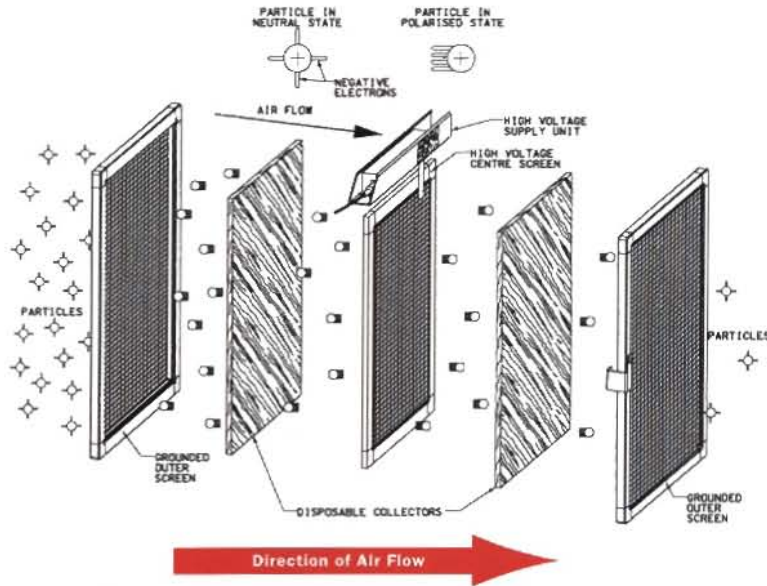
As airborne particles enter the filtration unit they are polarised by an electrostatic force field. The more particles collected, the more efficiently the filter works.

Unlike other electronic filters, Essa filters are non-ionising, which means that no charge is applied to the particles passing through. In other words, they take out potentially harmful particles without creating negative side effects such as ozone or ionised air.

Other competitors units rely on the collision of particles with a dense filter. To maintain airflow, air must be forced at a very high pressure through the filter. The energy required to generate such pressures is very costly, and can cause problems in reduced air volumes with existing ventilation duct systems.

Essa's superior energy efficiency is due to the low pressure drop required across the filter.

How particles pass through an Essa (H.E.L.P) filter



Nosebleeds, coughing, wheezing, fever, chills, lethargy, fatigue, rashes, hearing loss, muscle aches, nasal congestion, nausea, vomiting ...these are amongst the symptoms **directly attributable to indoor air pollution**. Now that electronic air cleaning can remove the causes of these problems, no-one should have to worry that they may end up suffering from any of these symptoms as a result of where they work or play.

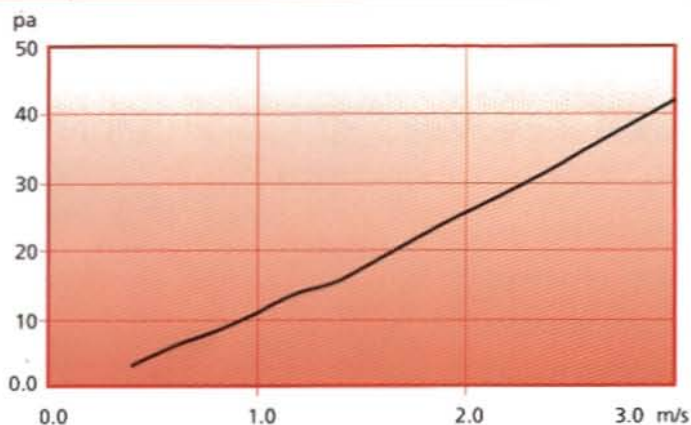
By removing the harmful airborne particles that contribute to such symptoms, **Essa's electronic air filters** will ensure that you, your co-workers and/or customers can breathe easy.

**'One third of our national health bill
is for causes directly attributable to
indoor air pollution'**

American Medical Association

The Air-Flow vs Resistance Characteristic in a Test Duct Based Upon AS1324-1996

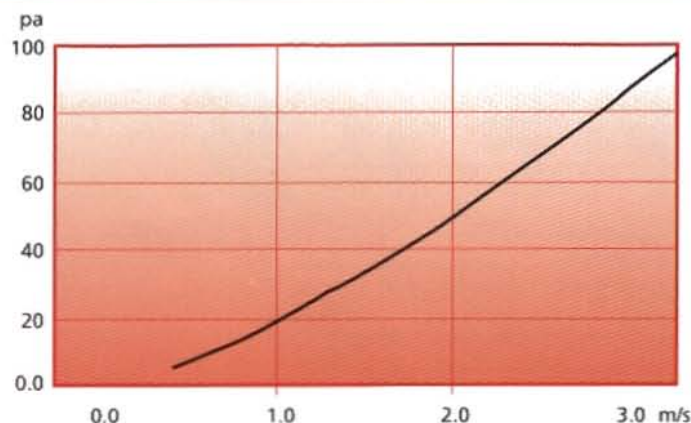
Performance for Essa Series 600/600/25



Flow vs Resistance

m/s	L/s	Pa	H ₂ O
0.40	118	3	0.012
0.60	177	6	0.024
0.80	236	8	0.032
1.00	295	11	0.044
1.20	354	14	0.056
1.40	413	16	0.064
1.60	472	19	0.076
1.80	531	23	0.092
2.00	590	26	0.104
2.50	738	34	0.137
3.00	885	43	0.173

Performance for Essa Series 600/600/50



Flow vs Resistance

m/s	L/s	Pa	H ₂ O
0.40	118	6	0.024
0.60	177	10	0.040
0.80	236	14	0.056
1.00	295	20	0.080
1.20	354	25	0.100
1.40	413	31	0.124
1.60	472	37	0.149
1.80	531	43	0.173
2.00	590	50	0.201
2.50	738	68	0.273
3.00	885	87	0.349

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