



Simple IAQ Solutions for a Complex World

Safer | Healthier | More Productive



IAQ - DO YOU KNOW

THE IMPLICATIONS?

- ☐ A study published in the professional journal, Building and Environment concluded that high performing, green buildings, which generally have MERV 13 and above filtration led to –
 - 26.4% higher cognitive test scores
 - 6.4% higher Sleep Quality scores
 - 30% fewer symptoms
- ☐ The National Center for Biotechnology Information estimated that the productivity benefits from doubling the ventilation rates in an commercial office building are \$6,500 per person per year.
- ☐ A study by Berkley Lab showed the potential to decrease sick leave in day cares by 12% by increasing the air exchange rate

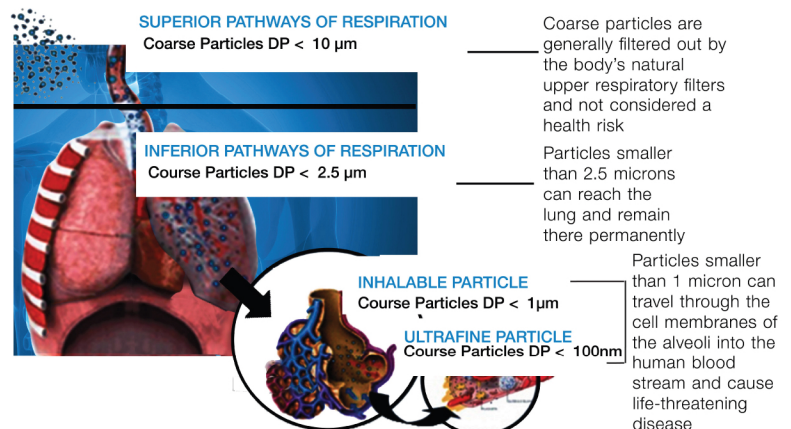
IAQ – More Important Now than Ever

It is projected that by 2050, 68% of the world population will live in urban areas, up from 55% today. As urban populations grow, air pollution increases in turn. Aging infrastructure and building HVAC systems in these cities are not keeping up with the increased demands of limiting their occupant's exposure to poor indoor air quality.

This leaves building engineers with a new challenge—How do you update indoor air quality protection in polluted conditions with aging HVAC systems? A simple but effective line of defense is to make sure your air filters have a high efficiency particulate removal rating (MERV 13-16). These filters not only protect HVAC equipment, but capture particles that are small enough to be linked to long term health effects in humans if inhaled.

What's in the Air?

The average person breathes in 2,650 gallons (10,000 liters) of air per day



Minimum Small Particle Removal MERV Requirement







MERV	MERV 8	MERV 10	MERV 11	MERV 13	MERV 14	MERV 15	MERV 16
0.3-1.0 MICRONS	0%	0%	20%	50%	75%	85%	95%
1.0-3.0 MICRONS	20%	50%	65%	85%	90%	90%	95%

MERV 13 is minimum recommended filter efficiency to meaningfully remove 0.3-1.0 micron particles

MERV 15 is strongly recommended MERV to promote IAQ due to particulate performance and market ubiquity



Retrofit High Efficiency Air Quality in any HVAC System...

COMMON SOLUTION	IMPROVED IAQ SOLUTION	PREMIUM IAQ SOLUTION
		
STANDARD PLEATED FILTER OR FIBERGLASS FILTER MERV 8	1", 2" OR 4" MERV 13 GREENPLEAT	2" MERV 15 NEXFIL 4" MERV 15 GEOPLEAT
		
LEGACY EFFICIENCY FILTERS OFTEN MERV 11 WITH A STANDARD MERV 8	ENDURO-PLEAT MERV 8/8A PREFILTER WITH MERV 15 GEOPLEAT OR MERV 15 FP	ENDURO-PLEAT MERV 8/8A PREFILTER WITH MERV 15 FP DUAL-PAK (VOC PERFORMANCE)

IAQ focused, but Keeping TCO in Mind -

The WHO has labeled air pollution as one of the world's biggest killers, linking it to 1 in 10 deaths every year. While it is of great importance to look at Total Cost of Ownership, from an energy labor and materials standpoint, human health cannot be overlooked. Studies have linked poor IAQ to absenteeism and reduced cognitive function.



ASK THE EXPERT: Use filters with gaskets and make sure they have a good seal when installed to prevent air bypass.

No changes are required to your building HVAC system. You can upgrade to high efficiency filters.

Aerostar® filters are designed with low initial pressure drop to minimize energy consumption without sacrificing on dust holding capacity. Our high efficiency MERV 13-16 air filters can be introduced into any current commercial or industrial HVAC system to remove potentially harmful particles.

CONTACT US FOR A **FREE** ON-SITE FILTER AUDIT
BY ONE OF OUR VALUED DISTRIBUTION PARTNERS



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