

PRODUCT REFERENCE GUIDE

Greentech Filters with ODOGard®



Find what you need, quickly.

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Helpful Filter Terminology

Add these terms to your sales pitches to help create meaningful selling points!

Filter Types

Carbon Filter: Carbon filtering uses a bed of activated carbon granules or media impregnated with active carbon to remove gaseous impurities from a fluid using adsorption.

Electrostatic Filter: Electrostatic filtering typically occurs with synthetic media and uses electrical charges on the fibers to attract and trap airborne dust particles.

Mechanical Filter: A filter designed to use (4) predominant mechanisms to remove particles from the air. These are Straining, Interception, Impingement, and Diffusion. The filters remove particles from the air stream as they meet, entangle, and adhere to the surface of the fibers without relying on static electricity.

Pleated Filter: Pleated air filters are typically made of synthetic material, paper, or cotton and are folded into small pleats to increase their surface area.

Filtration Types

MERV Rated: (Minimum Efficiency Reporting Value) A filter's ability to capture larger particles between 0.3 and 10 microns (μm). ASHRAE Standard 52.2-2017 provides the guidelines for these ratings, which range from MERV 1 to MERV 16, with the most common being between MERV 6 - 13.

Standard-Capacity: For 1" & 2" deep standard-capacity, filters typically contain between 9 and 13 pleats per foot, 4" standard capacity filters typically contain 8 to 10 pleats per foot.

High-Capacity Filtration: Compared to standard filters, High-Capacity Filters have more pleats, which helps lower the resistance and have a higher dust holding capacity. Greentech's high-capacity filters have 18 pleats per foot for 1" deep filters, 15 for 2" deep filters and 11 for 4" deep filters.

HEPA Rated Filters: (High Efficiency Particulate Air) This type of air filter can theoretically remove at least 99.97% of dust, pollen, mold, bacteria, and any airborne particles with a size of 0.3 microns (μm). The diameter specification of 0.3 microns corresponds to the worst case; the most penetrating particle size (MPPS). Particles that are larger or smaller are trapped with even higher efficiency. In the U.S. the only guideline for HEPA filters is provided by the Department of Energy. In Europe there is a more extensive guideline provide in standard EN 1822, which specifies 5 categories for HEPA filters; H10: $\geq 85\%$ efficiency at 0.3 microns, H11: $\geq 95\%$ efficiency at 0.3 microns, H12: $\geq 99.5\%$ efficiency at 0.3 microns, H13: $\geq 99.95\%$ efficiency at 0.3 microns, H14: $\geq 99.995\%$ efficiency at 0.3 microns.

Filter Related

Pressure Drop: Pressure Drop is the reduction in air pressure caused using a filter.

Nanofiber: Greentech Filters feature innovative nanofiber technology, increasing the surface area of the filter material to capture more ultrafine dust and particles than other filters. Nanofiber filters have low air resistance, allowing more airflow and less energy consumption compared to traditional filters.

ODOGard®: Greentech's advanced proprietary technology, forms covalent chemical bonds with gas-phase contaminants, inducing molecular changes that render them inert. ODOGard is biodegradable and non-toxic.

Volatile Organic Compounds: Organic compounds that have a high vapor pressure at room temperature. They are common and exist in a variety of settings and products, not limited to household mold, upholstered furniture, arts and crafts supplies, dry cleaned clothing, and cleaning supplies.

Embedding: The incorporation of an active compound directly into the polymer matrix that forms the outer layer (sheath) of a material, such as a fiber. This process ensures that the active ingredient is evenly distributed within the polymer, allowing for controlled release or targeted functionality.

Flow Rate (CFM): The volume of air which passes per unit time, measured in Cubic Feet per Minute

Velocity (FPM): The speed of air which passes per unit time, measured in Feet per Minute

Filters Introduction

Gain an understanding of the changing needs of the filtration market and how Greentech Filters can meet those needs better than existing solutions.

Common Issues – Listen for these “Buzz Words”

Pressure Drop: This issue is often caused by 2 factors, using the incorrect, higher MERV rated filter, or using a filter past the point of full capacity. These instances both cause the filter to restrict airflow, increase strain on your HVAC system, and can cause pre-mature failure of your mechanical system. This consideration often requires the consumer to sacrifice quality for safety and longevity.

Odors: One of the more noticeable issues with filtration is their lack of ability, as a whole, to remove odors from the air. These often pass right through commonly used filters and linger in the consumer’s air space. Using an expensive Carbon Filter is often the solution, but in some environments, these are inefficient and reach carrying capacity quickly, requiring more frequent changes.

Pricing: A large consideration when replacing filters is the price. To remove smaller particles or odors, you would need to spend more for unique filter options, such as Carbon or Electrostatic Filters. These both come with their own issues and would require more frequent changes because of their associated pressure drop.

LEED Certifications: With the increase in conscientious building practices, sustainability and efficiency are becoming a more important factor when choosing materials. To meet LEED requirements, consumers will often need to spend more money on higher quality materials. MERV 13 Filters can help attend additional LEED credits.

Distributor & Customer Experience: While it may not affect the actual filter experience, the Distributor and Customer Experience is an important part of the sourcing and purchasing process. Factors such as Custom Filter Sizes, Kitting, Lead Times, and Small Quantity Orders can tip the scales in favor of one brand over another.

Greentech Differences

At Greentech, we've redefined air filtration with our revolutionary air filters infused with the proprietary substance, ODOGard®. It's the only filter that eliminates at the molecular level but that's just the start of what makes ours the world's smartest filter.

Nanofiber: We've perfected the science behind our filters by incorporating nanofiber with superior nonwoven material. This means we achieve the desired MERV rating without artificially inflating efficiencies by resorting to temporary static charges. Now we can achieve a true mechanical MERV rating throughout the filter's lifespan, reducing issues with Pressure Drop.

ODOGard®: Our advanced proprietary technology, forms bonds with contaminants, inducing molecular changes that render them inert. As a result, these contaminants won't return to the airspace, ensuring that you can breathe not only fresh and clean air but also odorless air. ODOGard is 100% non-toxic and 100% biodegradable.

Efficiency: The combination of Nanofiber and ODOGard allows our filters to have a longer, more efficient period of usage, often lasting up to 3-4 months before needing to be changed. These extra months of usage can help reduce filter expenses.

Sustainability: Greentech's commitment to building higher quality products starts with more sustainable materials. Our MERV 11 and 13 filters use Nanofiber to reduce the use of synthetic materials by 50%. For every one 24x24x2 filter replaced with a Greentech Filter, it reduces up to the equivalent of 8+ (16.9oz) plastic bottles in landfills, compared to traditional synthetic high-capacity filters.

These factors allow our MERV 13A Filter to be used in LEED Certified Projects, providing 1 point to their LEED Score.

Distributor & Customer Experience: Greentech's support goes above and beyond to help make a meaningful experience, not only for the customer, but for the distributor as well. We offer Custom Filter Sizing to tackle unique jobs, Kitting to help with cumbersome or larger scope projects, Superior Lead Times (often within days to weeks due to our availability and manufacturing processes), and the ability to offer Less than Case Quantities for smaller jobs.

What Do Greentech Filters Treat?

Greentech has multiple levels of filtration to choose from; check out our efficacy guide to find an ideal solution for your needs.

Filter Particulate Matter Efficacy Guide				
Size Range (Microns)	Particulate Matter	MERV 8A	MERV 11A	MERV 13A
Coarse Particles 10.0 – 3.0	 Pollen	✓	✓	✓
	 Dust & Mites	✓	✓	✓
	 Pet Dander	✓	✓	✓
Fine Particles 3.0 – 1.0	 Odors	✓	✓	✓
	 VOCs	✓	✓	✓
	 Smoke		✓	✓
	 Mold		✓	✓
Ultrafine Particles 1.0 – 0.3	 Bacteria			✓
	 Virus Carriers			✓
Additional Filter Specifications & Benefits				
ODOGard®		✓	✓	✓
Nanofiber			✓	✓
Reinforced Framing		✓	✓	✓
Sustainable Production			✓	✓
No HVAC Requirements		✓	✓	✓
Filter Lifespan* *Depends on Environmental Conditions		3-4 Months	3-4 Months	3-4 Months
Subscription Availability		✓	✓	✓
Environments with Air Issues			✓	✓
Ideal for Respiratory Issues				✓

Greentech MERV 8A Filters



Great for areas that need better cost-efficient filtration, construction material off gassing, high-traffic areas, any odors from food, pets and people plus some common volatile organic compounds – everywhere you have a pleated filter.

Filter Construction: Greentech filter media is bonded to a recyclable metal structural support to provide pleat uniformity and rigidity as well as being sealed to the entire internal perimeter of the filter frame with a non-toxic adhesive.

New Technology (ODOGard®): A Proprietary New Technology that Eliminates Common VOCs and Odors at the Molecular Level.

Eliminate VOCs and Odors at the Source: Filters not only trap dust but also neutralize volatile organic compounds (VOCs) and odors at the molecular level through HVAC filtration. Unlike competitor filters that may only trap odors based on particle size, ODOGard® technology permanently eliminates odors, preventing odors re-releasing into the air.

ODOGard® vs. Carbon Filters: Proven to reduce odors by up to 99% more effectively than traditional carbon filters, thanks to advanced molecular binding.

True Mechanical Filtration: High-capacity mechanical filters maintain their MERV 8A rating throughout the filter's lifespan, unlike electrostatic filters that degrade over time.

Made in the USA: 100% developed and manufactured in the USA, ideal for commercial applications in multi-family housing, hotels, and residential spaces.

Who Benefits the Most from MERV 8A Filters?

Casinos

Ideal for odor control and bulk pricing

Education

Low-cost, Effective, HVAC Sustainability

Assisted Living

Low-cost, Effective, HVAC Sustainability

Multi-Family Homes

Ideal for odor control and bulk pricing, HVAC Sustainability

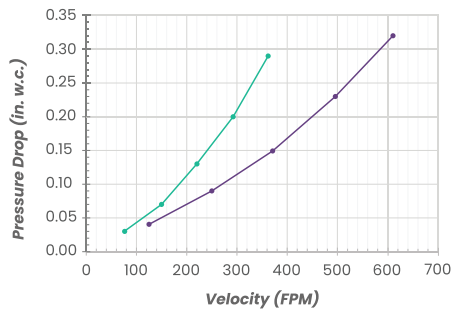
Hospitality

Ideal for odor control and bulk pricing

CONTACT GREENTECH FOR ADDITIONAL MERV 8A FILTER INFORMATION.

MERV 8A Filter Testing & Technical Information

Pressure Drop vs. Flow Rate



1" Filter

Flow Rate (CFM)	Velocity (FPM)	Pressure Drop
295	74	0.03
590	148	0.07
885	221	0.13
1,180	295	0.20
1,475	369	0.28

2" Filter

Flow Rate (CFM)	Velocity (FPM)	Pressure Drop
492	123	0.04
984	246	0.09
1,476	369	0.15
1,968	492	0.23
2,460	615	0.32

1" MERV 8A Filters

Nominal Size	Actual Size (Imperial)	Model
10" x 20" x 1"	9-1/2" x 19-1/2" x 3/4"	1x8326
10" x 24" x 1"	9-1/2" x 23-1/2" x 3/4"	1x8472
12" x 12" x 1"	11-1/2" x 11-1/2" x 3/4"	1x8473
12" x 20" x 1"	11-1/2" x 19-1/2" x 3/4"	1x8327
12" x 24" x 1"	11-1/2" x 23-1/2" x 3/4"	1x8474
14" x 18" x 1"	13-1/2" x 17-1/2" x 3/4"	1x8255
14" x 20" x 1"	13-1/2" x 19-1/2" x 3/4"	1x8325
14" x 24" x 1"	13-1/2" x 23-1/2" x 3/4"	1x8330
14" x 25" x 1"	13-1/2" x 24-1/2" x 3/4"	1x8335
15" x 20" x 1"	14-1/2" x 19-1/2" x 3/4"	1x8328
16" x 20" x 1"	15-1/2" x 19-1/2" x 3/4"	1x8324
16" x 24" x 1"	15-1/2" x 23-1/2" x 3/4"	1x8329
16" x 25" x 1"	15-1/2" x 24-1/2" x 3/4"	1x8256
18" x 18" x 1"	17-1/2" x 17-1/2" x 3/4"	1x8257
18" x 20" x 1"	17-1/2" x 19-1/2" x 3/4"	1x8323
18" x 24" x 1"	17-1/2" x 23-1/2" x 3/4"	1x8258
20" x 20" x 1"	19-1/2" x 19-1/2" x 3/4"	1x8259
20" x 22" x 1"	19-1/2" x 21-1/2" x 3/4"	1x8475
20" x 24" x 1"	19-1/2" x 23-1/2" x 3/4"	1x8260
20" x 25" x 1"	19-1/2" x 24-1/2" x 3/4"	1x8261
22" x 22" x 1"	21-1/2" x 21-1/2" x 3/4"	1x8476
24" x 24" x 1"	23-1/2" x 23-1/2" x 3/4"	1x8478
25" x 25" x 1"	24-1/2" x 24-1/2" x 3/4"	1x8331

2" MERV 8A Filters

Nominal Size	Actual Size (Imperial)	Model
12" x 20" x 2"	11-1/2" x 19-1/2" x 1-3/4"	1x8477
12" x 24" x 2"	11-1/2" x 23-1/2" x 1-3/4"	1x8479
14" x 20" x 2"	13-1/2" x 19-1/2" x 1-3/4"	1x8481
14" x 25" x 2"	13-1/2" x 24-1/2" x 1-3/4"	1x8480
16" x 20" x 2"	15-1/2" x 19-1/2" x 1-3/4"	1x8262
16" x 25" x 2"	15-1/2" x 24-1/2" x 1-3/4"	1x8263
18" x 18" x 2"	17-1/2" x 17-1/2" x 1-3/4"	1x8482
18" x 20" x 2"	17-1/2" x 19-1/2" x 1-3/4"	1x8483
18" x 24" x 2"	17-1/2" x 23-1/2" x 1-3/4"	1x8484
18" x 25" x 2"	17-1/2" x 24-1/2" x 1-3/4"	1x8485
20" x 20" x 2"	19-1/2" x 19-1/2" x 1-3/4"	1x8264
20" x 24" x 2"	19-1/2" x 23-1/2" x 1-3/4"	1x8333
20" x 25" x 2"	19-1/2" x 24-1/2" x 1-3/4"	1x8334
24" x 24" x 2"	23-1/2" x 23-1/2" x 1-3/4"	1x8332

Greentech MERV 11A Filters



Discover the revolutionary technology behind Greentech's MERV 11A filters—an ingenious combination of advanced nanofiber engineering and our exclusive ODOGard treatment. This groundbreaking synergy achieves the perfect harmony between mechanical and electrostatic filtration, setting our filters apart in the competitive filter landscape.

Greentech's MERV 11A filters don't just stop at particle capture; they address indoor air quality challenges comprehensively. These filters effectively capture and eliminate Volatile Organic Compounds (VOCs) and odors at a molecular level, ensuring a pristine and healthier indoor environment. Experience the holistic approach to filtration with Greentech.

Filter Construction: Greentech filter media is bonded to a recyclable metal structural support to provide pleat uniformity and rigidity as well as being sealed to the entire internal perimeter of the filter frame with a non-toxic adhesive.

Nanofiber: Greentech Filters (MERV 11A & 13A Only) feature innovative nanofiber technology, increasing the surface area of the filter material to capture more ultrafine dust and particles than other filters. Nanofiber filters have low air resistance, allowing more airflow and less energy consumption compared to traditional filters.

ODOGard®: Our advanced technology, forms bonds with contaminants, inducing molecular changes that render them inert.

Sustainability: Every one 24" x 24" x 2" filter replaced with a Greentech Filter reduces up to the equivalent of 8+ (16.9oz) plastic bottles in landfills, compared to traditional synthetic high-capacity filters.

Efficiency: Our true mechanical filters are more efficient because of a lower pressure drop commonly associated with equivalent MERV rated electrostatic filters or lower MERV rated mechanical filters.

Custom Sizing: Greentech will work with you to create custom sizes to fit every filter need you may have. Contact us to discuss options.

Made in the USA: 100% developed and manufactured in the USA, ideal for commercial applications in multi-family housing, hotels, and residential spaces.

Who Benefits the Most from MERV 11A Filters?

Data Centers

Fine Particle Filtration, Low Pressure Drop

Healthcare

Fine Particle Filtration, Low Pressure Drop, Odors

Assisted Living

Fine Particle Filtration, Low Pressure Drop, Odors

Commercial Buildings/Offices

Odors, Low Pressure Drop

Education

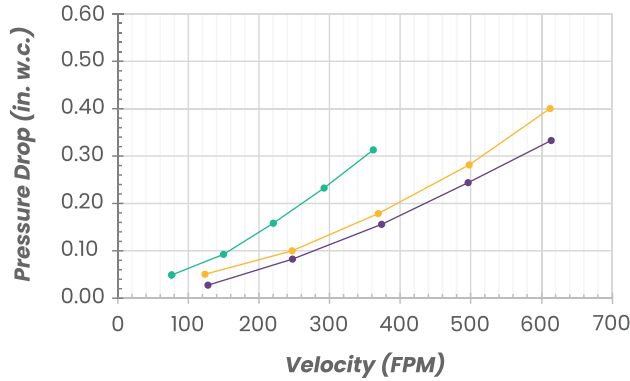
Odor Control, Fine Particle Filtration, HVAC Sustainability

Hospitality

Odor Control, Bulk Pricing, HVAC Sustainability

MERV 11A Filter Testing & Part Information

Pressure Drop vs. Flow Rate



• 1" Filter

• 2" Filter

• 4" Filter

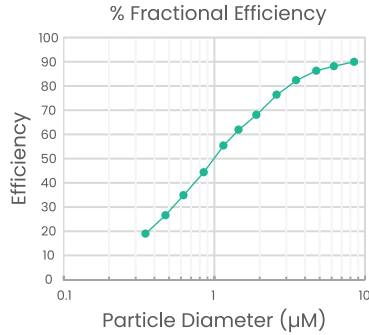
Flow Rate (CFM)	Velocity (FPM)	Pressure Drop
295	74	0.05
590	148	0.10
885	221	0.16
1180	295	0.23
1475	369	0.31

Flow Rate (CFM)	Velocity (FPM)	Pressure Drop
492	123	0.03
984	246	0.09
1,476	369	0.16
1,968	492	0.25
2,460	615	0.34

Flow Rate (CFM)	Velocity (FPM)	Pressure Drop
492	123	0.05
984	246	0.10
1,476	369	0.18
1,968	492	0.28
2,460	615	0.40

ASHRAE 52.2 Test Data

Filter Size: 24" x 24" x 2"
Test Aerosol: KCl, Neutralized
Flow Rate: 1,968 CFM
Velocity: 492 FPM



Size Range (µm)	Initial Fractional Efficiency	
	MERV 11	Avg.
0.30 - 0.40	19.0%	E ¹ 31.2
0.40 - 0.55	26.7%	
0.55 - 0.70	34.9%	
0.70 - 1.00	44.3%	
1.00 - 1.30	55.3%	E ² 65.4
1.30 - 1.60	61.9%	
1.60 - 2.20	68.0%	
2.20 - 3.00	76.3%	
3.00 - 4.00	82.3%	E ³ 86.7
4.00 - 5.00	86.3%	
5.50 - 7.00	88.2%	
7.00 - 10.00	90.0%	

1" MERV 11A Filters

Nominal Size	Actual Size	Greentech Model
8" x 20" x 1"	7-1/2" x 19-1/2" x 3/4"	1x6677
8" x 26" x 1"	7-1/2" x 25-1/2" x 3/4"	1x6678
10" x 10" x 1"	9-1/2" x 9-1/2" x 3/4"	1x6679
10" x 20" x 1"	9-1/2" x 19-1/2" x 3/4"	1x6680
10" x 24" x 1"	9-1/2" x 23-1/2" x 3/4"	1x6534
10" x 30" x 1"	9-1/2" x 29-1/2" x 3/4"	1x6681
12" x 12" x 1"	11-1/2" x 11-1/2" x 3/4"	1x6380
12" x 18" x 1"	11-1/2" x 17-1/2" x 3/4"	1x6682
12" x 20" x 1"	11-1/2" x 19-1/2" x 3/4"	1x6683
12" x 24" x 1"	11-1/2" x 23-1/2" x 3/4"	1x6385
12" x 25" x 1"	11-1/2" x 24-1/2" x 3/4"	1x6684
12" x 30" x 1"	11-1/2" x 29-1/2" x 3/4"	1x6685
14" x 14" x 1"	13-1/2" x 13-1/2" x 3/4"	1x6411
14" x 20" x 1"	13-1/2" x 19-1/2" x 3/4"	1x6381
14" x 24" x 1"	13-1/2" x 23-1/2" x 3/4"	1x6386
14" x 25" x 1"	13-1/2" x 24-1/2" x 3/4"	1x6390
14" x 30" x 1"	13-1/2" x 29-1/2" x 3/4"	1x6688
15" x 20" x 1"	14-1/2" x 19-1/2" x 3/4"	1x6689
15" x 25" x 1"	14-1/2" x 24-1/2" x 3/4"	1x6690
16" x 16" x 1"	15-1/2" x 15-1/2" x 3/4"	1x6691
16" x 18" x 1"	15-1/2" x 17-1/2" x 3/4"	1x6692
16" x 20" x 1"	15-1/2" x 19-1/2" x 3/4"	1x6382
16" x 24" x 1"	15-1/2" x 23-1/2" x 3/4"	1x6693
16" x 25" x 1"	15-1/2" x 24-1/2" x 3/4"	1x6391
16" x 30" x 1"	15-1/2" x 29-1/2" x 3/4"	1x6694
16" x 32" x 1"	15-1/2" x 31-1/2" x 3/4"	1x6695
17" x 22" x 1"	16-1/2" x 21-1/2" x 3/4"	1x6696
18" x 20" x 1"	17-1/2" x 19-1/2" x 3/4"	1x6697
18" x 24" x 1"	17-1/2" x 23-1/2" x 3/4"	1x6387
18" x 25" x 1"	17-1/2" x 24-1/2" x 3/4"	1x6698
18" x 30" x 1"	17-1/2" x 29-1/2" x 3/4"	1x6701
20" x 20" x 1"	19-1/2" x 19-1/2" x 3/4"	1x6383
20" x 22" x 1"	19-1/2" x 21-1/2" x 3/4"	1x6384
20" x 23" x 1"	19-1/2" x 22-1/2" x 3/4"	1x6702
20" x 24" x 1"	19-1/2" x 23-1/2" x 3/4"	1x6388
20" x 25" x 1"	19-1/2" x 24-1/2" x 3/4"	1x6392
20" x 30" x 1"	19-1/2" x 29-1/2" x 3/4"	1x6394
22" x 22" x 1"	21-1/2" x 21-1/2" x 3/4"	1x6584
24" x 24" x 1"	23-1/2" x 23-1/2" x 3/4"	1x6389
24" x 30" x 1"	23-1/2" x 29-1/2" x 3/4"	1x6395
25" x 25" x 1"	24-1/2" x 24-1/2" x 3/4"	1x6699

2" MERV 11A Filters

Nominal Size	Actual Size	Greentech Model
10" x 10" x 2"	9-1/2" x 9-1/2" x 1-3/4"	1x6705
12" x 20" x 2"	11-1/2" x 19-1/2" x 1-3/4"	1x6706
12" x 24" x 2"	11-1/2" x 23-1/2" x 1-3/4"	1x6399
14" x 20" x 2"	13-1/2" x 19-1/2" x 1-3/4"	1x6707
14" x 25" x 2"	13-1/2" x 24-1/2" x 1-3/4"	1x6403
15" x 20" x 2"	14-1/2" x 19-1/2" x 1-3/4"	1x6708
16" x 16" x 2"	15-1/2" x 15-1/2" x 1-3/4"	1x6531
16" x 20" x 2"	15-1/2" x 19-1/2" x 1-3/4"	1x6396
16" x 24" x 2"	15-1/2" x 23-1/2" x 1-3/4"	1x6547
16" x 25" x 2"	15-1/2" x 24-1/2" x 1-3/4"	1x6404
16" x 30" x 2"	15-1/2" x 29-1/2" x 1-3/4"	1x6709
18" x 18" x 2"	17-1/2" x 17-1/2" x 1-3/4"	1x6710
18" x 20" x 2"	17-1/2" x 19-1/2" x 1-3/4"	1x6397
18" x 24" x 2"	17-1/2" x 23-1/2" x 1-3/4"	1x6711
18" x 25" x 2"	17-1/2" x 24-1/2" x 1-3/4"	1x6712
20" x 20" x 2"	19-1/2" x 19-1/2" x 1-3/4"	1x6398
20" x 24" x 2"	19-1/2" x 23-1/2" x 1-3/4"	1x6400
20" x 25" x 2"	19-1/2" x 24-1/2" x 1-3/4"	1x6405
20" x 30" x 2"	19-1/2" x 29-1/2" x 1-3/4"	1x6407
24" x 24" x 2"	23-1/2" x 23-1/2" x 1-3/4"	1x6401
24" x 25" x 2"	23-1/2" x 24-1/2" x 1-3/4"	1x6402
24" x 30" x 2"	23-1/2" x 29-1/2" x 1-3/4"	1x6713
25" x 25" x 2"	24-1/2" x 24-1/2" x 1-3/4"	1x6406

4" MERV 11A Filters

Nominal Size	Actual Size	Greentech Model
12" x 24" x 4"	11-1/2" x 23-1/2" x 3-3/4"	1x6714
16" x 20" x 4"	15-1/2" x 19-1/2" x 3-3/4"	1x6715
16" x 24" x 4"	15-1/2" x 23-1/2" x 3-3/4"	1x6716
16" x 25" x 4"	15-1/2" x 24-1/2" x 3-3/4"	1x6549
18" x 24" x 4"	17-1/2" x 23-1/2" x 3-3/4"	1x6717
20" x 20" x 4"	19-1/2" x 19-1/2" x 3-3/4"	1x6718
20" x 24" x 4"	19-1/2" x 23-1/2" x 3-3/4"	1x6548
20" x 25" x 4"	19-1/2" x 24-1/2" x 3-3/4"	1x6558
24" x 24" x 4"	23-1/2" x 23-1/2" x 3-3/4"	1x6719

Greentech MERV 13A Filters



Discover the revolutionary technology behind Greentech's MERV 13A filters—an ingenious combination of advanced nanofiber engineering and our exclusive ODOGard treatment. This groundbreaking synergy achieves the perfect harmony between mechanical and electrostatic filtration, setting our filters apart in the competitive filter landscape.

Greentech's MERV 13A filters don't just stop at particle capture; they address indoor air quality challenges comprehensively. These filters effectively capture and eliminate Volatile Organic Compounds (VOCs) and odors at a molecular level, ensuring a pristine and healthier indoor environment. Experience the holistic approach to filtration with Greentech.

Filter Construction: Greentech filter media is bonded to a recyclable metal structural support to provide pleat uniformity and rigidity as well as being sealed to the entire internal perimeter of the filter frame with a non-toxic adhesive.

Nanofiber: Greentech Filters (MERV 11A & 13A Only) feature innovative nanofiber technology, increasing the surface area of the filter material to capture more ultrafine dust and particles than other filters. Nanofiber filters have low air resistance, allowing more airflow and less energy consumption compared to traditional filters.

ODOGard®: Our advanced technology, forms bonds with contaminants, inducing molecular changes that render them inert.

Sustainability: Every one 24" x 24" x 2" filter replaced with a Greentech Filter reduces up to the equivalent of 8+ (16.9oz) plastic bottles in landfills, compared to traditional synthetic high-capacity filters.

Efficiency: Our true mechanical filters are more efficient because of a lower pressure drop commonly associated with equivalent MERV rated electrostatic filters or lower MERV rated mechanical filters.

LEED Building: Our MERV 13A Filters qualify to add 1 Point to your LEED score.

Custom Sizing: Greentech will work with you to create custom sizes to fit every filter need you may have. Contact us to discuss options.

Made in the USA: 100% developed and manufactured in the USA, ideal for commercial applications in multi-family housing, hotels, and residential spaces.

Who Benefits the Most from MERV 13A Filters?

Data Centers

Fine Particle Filtration, Low Pressure Drop

Healthcare

Fine Particle Filtration, Low Pressure Drop, Odors

Assisted Living

Fine Particle Filtration, Low Pressure Drop, Odors

Commercial Buildings/Offices

Odors, Low Pressure Drop

Education

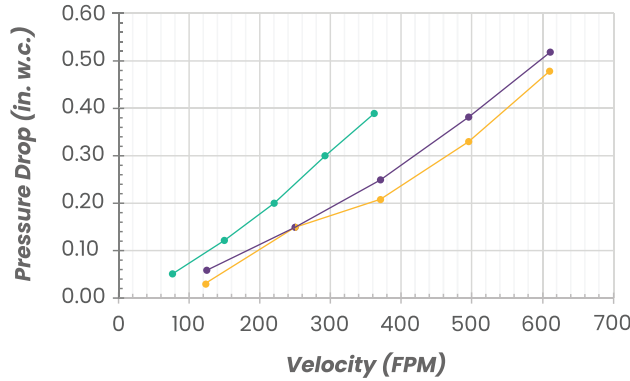
Odor Control, Fine Particle Filtration, HVAC Sustainability

California

MERV 13 Requirements, Low Pressure Drop, Odor Control

MERV 13A Filter Testing & Part Information

Pressure Drop vs. Flow Rate



1" Filter

Flow Rate (CFM)	Velocity (FPM)	Pressure Drop
295	74	0.05
590	148	0.12
885	221	0.20
1,180	295	0.30
1,475	369	0.39

2" Filter

Flow Rate (CFM)	Velocity (FPM)	Pressure Drop
492	123	0.06
984	246	0.15
1,476	369	0.25
1,968	492	0.38
2,460	615	0.52

4" Filter

Flow Rate (CFM)	Velocity (FPM)	Pressure Drop
492	123	0.03
984	246	0.12
1,476	369	0.21
1,968	492	0.33
2,460	615	0.48

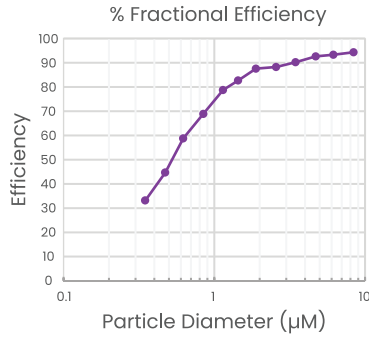
ASHRAE 52.2 Test Data

Filter Size:
24" x 24" x 2"

Test Aerosol:
KCl, Neutralized

Flow Rate:
1,968 CFM

Velocity:
492 FPM



Size Range (µm)	Initial Fractional Efficiency	
	MERV 13	Avg.
0.30 - 0.40	36.8%	E ¹ 54.8
0.40 - 0.55	49.6%	
0.55 - 0.70	60.8%	
0.70 - 1.00	72.0%	
1.00 - 1.30	80.2%	E ² 85.0
1.30 - 1.60	83.9%	
1.60 - 2.20	86.5%	
2.20 - 3.00	89.3%	
3.00 - 4.00	91.3%	E ³ 93.3
4.00 - 5.00	92.6%	
5.50 - 7.00	93.9%	
7.00 - 10.00	95.3%	

1" MERV 13A Filters

Nominal Size	Actual Size	Greentech Model
8" x 20" x 1"	7-1/2" x 19-1/2" x 3/4"	1x6812
8" x 26" x 1"	7-1/2" x 25-1/2" x 3/4"	1x6813
10" x 10" x 1"	9-1/2" x 9-1/2" x 3/4"	1x6814
10" x 20" x 1"	9-1/2" x 19-1/2" x 3/4"	1x6815
10" x 24" x 1"	9-1/2" x 23-1/2" x 3/4"	1x6816
10" x 30" x 1"	9-1/2" x 29-1/2" x 3/4"	1x6817
12" x 12" x 1"	11-1/2" x 11-1/2" x 3/4"	1x6818
12" x 18" x 1"	11-1/2" x 17-1/2" x 3/4"	1x6819
12" x 20" x 1"	11-1/2" x 19-1/2" x 3/4"	1x6820
12" x 24" x 1"	11-1/2" x 23-1/2" x 3/4"	1x6821
12" x 25" x 1"	11-1/2" x 24-1/2" x 3/4"	1x6822
12" x 30" x 1"	11-1/2" x 29-1/2" x 3/4"	1x6823
14" x 14" x 1"	13-1/2" x 13-1/2" x 3/4"	1x6826
14" x 20" x 1"	13-1/2" x 19-1/2" x 3/4"	1x6828
14" x 24" x 1"	13-1/2" x 23-1/2" x 3/4"	1x6829
14" x 25" x 1"	13-1/2" x 24-1/2" x 3/4"	1x6830
14" x 30" x 1"	13-1/2" x 29-1/2" x 3/4"	1x6831
15" x 20" x 1"	14-1/2" x 19-1/2" x 3/4"	1x6832
15" x 25" x 1"	14-1/2" x 24-1/2" x 3/4"	1x6833
16" x 16" x 1"	15-1/2" x 15-1/2" x 3/4"	1x6834
16" x 18" x 1"	15-1/2" x 17-1/2" x 3/4"	1x6835
16" x 20" x 1"	15-1/2" x 19-1/2" x 3/4"	1x6836
16" x 24" x 1"	15-1/2" x 23-1/2" x 3/4"	1x6837
16" x 25" x 1"	15-1/2" x 24-1/2" x 3/4"	1x6839
16" x 30" x 1"	15-1/2" x 29-1/2" x 3/4"	1x6840
16" x 32" x 1"	15-1/2" x 31-1/2" x 3/4"	1x6841
17" x 22" x 1"	16-1/2" x 21-1/2" x 3/4"	1x6842
18" x 20" x 1"	17-1/2" x 19-1/2" x 3/4"	1x6844
18" x 24" x 1"	17-1/2" x 23-1/2" x 3/4"	1x6845
18" x 25" x 1"	17-1/2" x 24-1/2" x 3/4"	1x6846
18" x 30" x 1"	17-1/2" x 29-1/2" x 3/4"	1x6847
20" x 20" x 1"	19-1/2" x 19-1/2" x 3/4"	1x6848
20" x 22" x 1"	19-1/2" x 21-1/2" x 3/4"	1x6849
20" x 23" x 1"	19-1/2" x 22-1/2" x 3/4"	1x6850
20" x 24" x 1"	19-1/2" x 23-1/2" x 3/4"	1x6851
20" x 25" x 1"	19-1/2" x 24-1/2" x 3/4"	1x6852
20" x 30" x 1"	19-1/2" x 29-1/2" x 3/4"	1x6853
22" x 22" x 1"	21-1/2" x 21-1/2" x 3/4"	1x6854
24" x 24" x 1"	23-1/2" x 23-1/2" x 3/4"	1x6855
24" x 30" x 1"	23-1/2" x 29-1/2" x 3/4"	1x6856
25" x 25" x 1"	24-1/2" x 24-1/2" x 3/4"	1x6857

2" MERV 13A Filters

Nominal Size	Actual Size	Greentech Model
10" x 10" x 2"	9-1/2" x 9-1/2" x 1-3/4"	1x6858
12" x 20" x 2"	11-1/2" x 19-1/2" x 1-3/4"	1x6860
12" x 24" x 2"	11-1/2" x 23-1/2" x 1-3/4"	1x6861
14" x 20" x 2"	13-1/2" x 19-1/2" x 1-3/4"	1x6862
14" x 25" x 2"	13-1/2" x 23-1/2" x 1-3/4"	1x6863
15" x 20" x 2"	14-1/2" x 19-1/2" x 1-3/4"	1x6864
16" x 16" x 2"	15-1/2" x 15-1/2" x 1-3/4"	1x6865
16" x 20" x 2"	15-1/2" x 19-1/2" x 1-3/4"	1x6866
16" x 24" x 2"	15-1/2" x 23-1/2" x 1-3/4"	1x6867
16" x 25" x 2"	15-1/2" x 24-1/2" x 1-3/4"	1x6868
16" x 30" x 2"	15-1/2" x 29-1/2" x 1-3/4"	1x6869
18" x 18" x 2"	17-1/2" x 17-1/2" x 1-3/4"	1x6870
18" x 20" x 2"	17-1/2" x 19-1/2" x 1-3/4"	1x6871
18" x 24" x 2"	17-1/2" x 23-1/2" x 1-3/4"	1x6872
18" x 25" x 2"	17-1/2" x 24-1/2" x 1-3/4"	1x6873
20" x 20" x 2"	19-1/2" x 19-1/2" x 1-3/4"	1x6874
20" x 24" x 2"	19-1/2" x 23-1/2" x 1-3/4"	1x6875
20" x 25" x 2"	19-1/2" x 24-1/2" x 1-3/4"	1x6876
20" x 30" x 2"	19-1/2" x 29-1/2" x 1-3/4"	1x6877
24" x 24" x 2"	23-1/2" x 23-1/2" x 1-3/4"	1x6878
24" x 25" x 2"	23-1/2" x 24-1/2" x 1-3/4"	1x6879
24" x 30" x 2"	23-1/2" x 29-1/2" x 1-3/4"	1x6880
25" x 25" x 2"	24-1/2" x 24-1/2" x 1-3/4"	1x6881

4" MERV 13A Filters

Nominal Size	Actual Size	Greentech Model
12" x 24" x 4"	11-1/2" x 23-1/2" x 3-3/4"	1x6882
16" x 20" x 4"	15-1/2" x 19-1/2" x 3-3/4"	1x6883
16" x 24" x 4"	15-1/2" x 23-1/2" x 3-3/4"	1x6884
16" x 25" x 4"	15-1/2" x 24-1/2" x 3-3/4"	1x6885
18" x 24" x 4"	17-1/2" x 23-1/2" x 3-3/4"	1x6886
20" x 20" x 4"	19-1/2" x 19-1/2" x 3-3/4"	1x6887
20" x 24" x 4"	19-1/2" x 23-1/2" x 3-3/4"	1x6888
20" x 25" x 4"	19-1/2" x 24-1/2" x 3-3/4"	1x6889
24" x 24" x 4"	23-1/2" x 23-1/2" x 3-3/4"	1x6890



For additional filter information, contact your
Greentech Sales Representative, or scan
this code to visit our website.



Hello, we're here to help!

Dedicated HVAC Filter Specialists

We'll help you with any special filter sizing requests or volume orders. We look forward to providing any information you need to help you place your filter order!

CommercialSales@greentechenv.com