

Microsafe

Antimicrobial treated air filters designed for effective control of molds, bacteria, mildew and other airborne microorganisms.



FEATURES

Effective control of microorganisms

Permanently bonds to filter fibers

Non-migrating

Does not affect normal filter lifecycle

Over thirty year history of safe & effective use



Living E.coli organisms on non-treated material



Non-living E.coli organisms on treated material

Microsafe

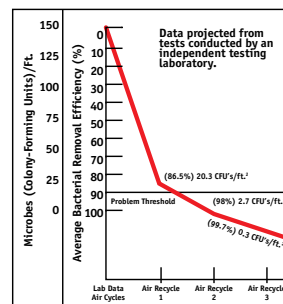
Koch Filter offers Microsafe antimicrobial treated air filters that are designed to effectively control molds, bacteria, mildew and other airborne microorganisms.

The antimicrobial treatment utilized in all MicroSafe products is a specialized antimicrobial agent designed to effectively control microbial growth such as fungus, mold, mildew and bacteria on contact.

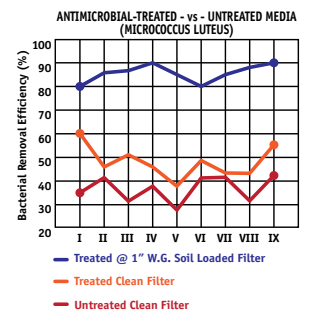
This large product offering, in tandem with the capability to control such a wide spectrum of microorganisms, make MicroSafe Antimicrobial-Treated Air Filters an excellent frontline component in the overall effort to improve Indoor environmental quality.

Applications

MicroSafe Antimicrobial-Treated Air Filters are designed for use in any HVAC system, and are ideal for control of microorganisms in hospitals, nursing homes, laboratories, and commercial buildings of all types.



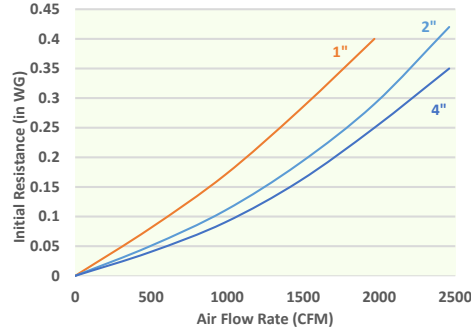
1) Performance data based on ASHRAE 52.2-2007 test standards.
2) UL Class 1 and 2 standard 900.



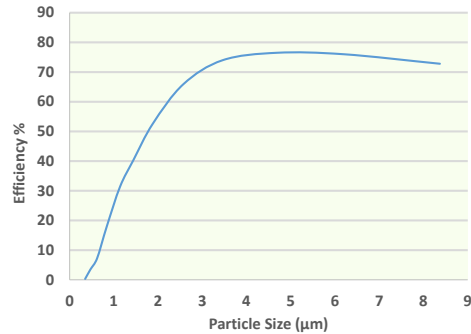
Microsafe Performance Data

Filter Depth	Air Velocity	Initial Resistance (inches w.g.)	Final Resistance (inches w.g.)	Pleats Per Linear Foot
1"	300 FPM	0.22	1.0	12
2"	500 FPM	0.29	1.0	10
4"	500 FPM	0.25	1.0	9

Initial Resistance vs. Air Flow Rate



Efficiency by Particle Size



Microsafe Specifications

Filter Depth	1", 2", 4" and 6"
Efficiency	MERV 8
Media	100% Synthetic Mechanical- Antimicrobial
Media Support	Expanded Metal on Downstream Side
Frame Type	Beverage Board
Max Operating Temperature	200°F (93°C)
Recommended Final Resistance	1" w.g.
Filter Certification	UL 900
Manufacturing Certification	ISO 9001:2015

Engineering Specifications

1.0 General Specifications

- Filters shall be Microsafe ES extended surface pleated air filters as manufactured by Koch Filter.
- Filters shall be available in nominal depths of 1", 2", 4" and 6", in standard and high capacity configurations.
- Filters are classified by Underwriters Laboratories to UL 900.
- Filters are manufactured by an ISO 9001 registered company.

2.0 Filter Material and Construction

- Media shall be 100% synthetic mechanical media treated with Antimicrobial treatment.
- Filters shall have an expanded galvanized steel support grid bonded to the air-exiting side of the filter to maintain pleat uniformity and prevent fluttering.
- Filter frame shall be comprised of a high wet strength beverage board with a cross member designed to increase filter strength and rigidity. Frame shall be recyclable.

3.0 Filter Performance

- Filters shall be MERV 8 in standard capacity and high capacity configurations and when tested in accordance with ASHRAE 52.2 Test Standard.
- For initial resistance of filters, see Performance Data chart above.
- Filters shall be rated to withstand a continuous operating temperature up to 200°F.
- Filters shall have a recommended final resistance of 1.0" w.g.

Part Number	Nominal Size*	Actual Size	Capacity (CFM)	
	WxHxD	WxHxD	300 FPM	500 FPM
102-061-020	10x10x1	9-1/2x9-1/2x3/4	200	350
102-680-001	10x20x1	9-1/2x19-1/2x3/4	425	700
102-680-051	12x12x1	11-1/2x11-1/2x3/4	300	500
102-061-001	12x18x1	11-1/2x17-1/2x3/4	450	750
102-061-002	12x20x1	11-1/2x19-1/2x3/4	500	850
102-680-002	12x24x1	11-3/8x23-3/8x3/4	600	1000
102-061-003	12x25x1	11-1/2x24-1/2x3/4	625	1050
102-680-003	14x20x1	13-1/2x19-1/2x3/4	575	986
102-061-005	14x24x1	13-1/2x23-1/2x3/4	700	1175
102-680-004	14x25x1	13-1/2x24-1/2x3/4	725	1225
102-061-039	14x30x1	13-1/2x29-1/2x3/4	875	1450
102-680-005	15x20x1	14-1/2x19-1/2x3/4	625	1050
102-061-006	15x25x1	14-1/2x24-1/2x3/4	775	1300
102-061-007	16x16x1	15-1/2x15-1/2x3/4	550	900
102-680-006	16x20x1	15-1/2x19-1/2x3/4	675	1125
102-061-008	16x24x1	15-1/2x23-1/2x3/4	800	1350
102-680-007	16x25x1	15-1/2x24-1/2x3/4	850	1400
102-061-018	16x30x1	15-1/2x29-1/2x3/4	1000	1675
102-061-009	18x18x1	17-1/2x17-1/2x3/4	675	1125
102-061-015	18x20x1	17-1/2x19-1/2x3/4	750	1250
102-061-016	18x24x1	17-3/8x23-3/8x3/4	900	1500
102-061-011	18x25x1	17-1/2x24-1/2x3/4	950	1575
102-061-044	18x30x1	17-1/2x29-1/2x3/4	1125	1875
102-680-008	20x20x1	19-1/2x19-1/2x3/4	850	1400
102-061-049	20x22x1	19-3/4x21-1/2x3/4	900	1525
102-061-017	20x24x1	19-3/8x23-3/8x3/4	1000	1675
102-680-009	20x25x1	19-1/2x24-1/2x3/4	1000	1750
102-061-012	20x30x1	19-1/2x29-1/2x3/4	1250	2100
102-680-010	24x24x1	23-3/8x23-3/8x3/4	1200	2000
102-061-013	24x30x1	23-1/2x29-1/2x3/4	1500	2500
102-061-014	25x25x1	24-1/2x24-1/2x3/4	1300	2175

Part Number	Nominal Size*	Actual Size	500 FPM	625 FPM
102-680-011	10x20x2	9-1/2x19-1/2x1-3/4	700	875
102-062-035	12x12x2	11-1/2x11-1/2x1-3/4	500	625
102-062-002	12x20x2	11-1/2x19-1/2x1-3/4	850	1050
102-680-012	12x24x2	11-3/8x23-3/8x1-3/4	1000	1250
102-062-003	12x25x2	11-1/2x24-1/2x1-3/4	1050	1300
102-680-013	14x20x2	13-1/2x19-1/2x1-3/4	975	1225
102-680-014	14x25x2	13-1/2x24-1/2x1-3/4	1225	1525
102-062-039	14x30x2	13-1/2x29-1/2x1-3/4	1450	1825
102-680-015	15x20x2	14-1/2x19-1/2x1-3/4	1050	1300
102-062-005	16x16x2	15-1/2x15-1/2x1-3/4	900	1125
102-680-016	16x20x2	15-1/2x19-1/2x1-3/4	1125	1400
102-680-053	16x24x2	15-1/2x23-1/2x1-3/4	1350	1675
102-680-017	16x25x2	15-1/2x24-1/2x1-3/4	1400	1750
102-062-018	16x30x2	15-1/2x29-1/2x1-3/4	1675	2100
102-062-007	18x18x2	17-1/2x17-1/2x1-3/4	1125	1400
102-062-015	18x20x2	17-1/2x19-1/2x1-3/4	1250	1575
102-680-018	18x24x2	17-1/2x23-1/2x1-3/4	1500	1875
102-062-009	18x25x2	17-1/2x24-1/2x1-3/4	1575	1950
102-680-019	20x20x2	19-1/2x19-1/2x1-3/4	1400	1750
102-680-020	20x24x2	19-1/2x23-1/2x1-3/4	1675	2100
102-680-021	20x25x2	19-1/2x24-1/2x1-3/4	1750	2175
102-062-010	20x30x2	19-1/2x29-1/2x1-3/4	2100	2600
102-062-030	20x35x2	19-1/2x34-1/2x1-3/4	2450	3050
102-680-022	24x24x2	23-3/8x23-3/8x1-3/4	2000	2500
102-062-011	24x30x2	23-1/2x29-1/2x1-3/4	2500	3125
102-680-050	25x25x2	24-1/2x24-1/2x1-3/4	2175	2725

Part Number	Nominal Size*	Actual Size	500 FPM	625 FPM
102-680-023	12x24x4	11-3/8x23-3/8x3-3/4	1000	1250
102-680-024	15x20x4	14-1/2x19-1/2x3-3/4	1050	1300
102-680-025	16x20x4	15-1/2x19-1/2x3-3/4	1125	1400
102-064-005	16x24x4	15-3/8x23-3/8x3-3/4	1350	1675
102-680-026	16x25x4	15-1/2x24-1/2x3-3/4	1400	1750
102-680-027	18x24x4	17-1/2x23-3/8x3-3/4	1500	1875
102-680-028	20x20x4	19-1/2x19-1/2x3-3/4	1400	1750
102-680-029	20x24x4	19-3/8x23-3/8x3-3/4	1675	2100
102-680-030	20x25x4	19-1/2x24-1/2x3-3/4	1750	2175
102-680-031	24x24x4	23-3/8x23-3/8x3-3/4	2000	2500
102-064-010	25x29x4	28-1/2x24-1/2x3-3/4	2525	3150
102-680-041	24x24x6	23-3/8x23-3/8x5-3/4	2000	2500