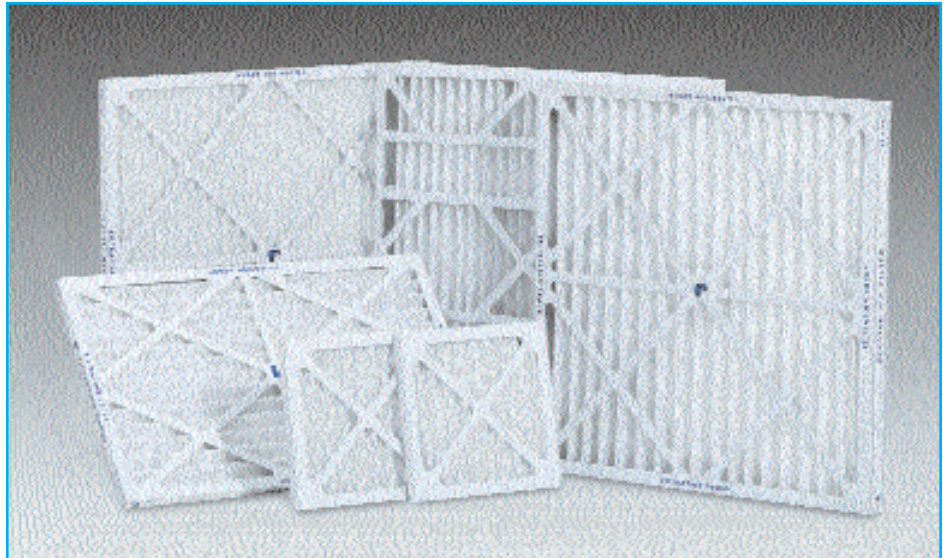


FILTRATION GROUP

PLEATED AIR FILTER - SERIES 400



- Achieves up to a **MERV8** (per ASHRAE Standard 52.2-2007)
- Moisture resistant
100% synthetic media
- Longer service life
means lower operating costs
- Available in either
standard capacity or
high capacity
- A wide range of sizes
in 1", 2" and 4"
thicknesses
- Maximum recommended
continuous operating
temperature of 150 °F
- UL900 Class 2



DESCRIPTION

The Aerostar Pleated Air Filter - Series 400 incorporates a 100% synthetic media with an ASHRAE 52.2 average atmospheric efficiency of 25% to 30% and an average arrestance exceeding 90% by weight. The 1" and 2" filters handle velocities up to 500 fpm - the 4" filters up to 625 fpm.

The media is bonded to a metal grid on the air-exiting side, preventing fluttering, and maintaining uniformity of the pleats. The filter pack is enclosed in a heavy-duty, moisture resistant, die-cut frame that will not warp, crack or distort under normal operating conditions.

Front and back media retainers are an integral part of the filter frame. The media pack is bonded to every part of the frame, preventing any possibility of air by-pass. Integral pleat separators on the 4" filters provide additional pleat stabilization for the most demanding applications.

BENEFITS

It is possible for a flat filter to face load, thus restricting airflow and placing unnecessary strain on equipment.

The Series 400 filters accumulate the heavier, more restrictive particles at the bottom of the pleats, leaving the sides open longer for effective filtration. The Series 400 filter media is engineered to provide maximum efficiency. In general, deeper pleats result in longer filter life and more time between changeouts.

- Rigid construction with consistent media extends the service life
- Well-built, efficient and easy-to-handle medium efficiency filters
- Achieves MERV 8 for high capacity; MERV 7 for standard capacity (per ASHRAE Standard 52.2-2007)
- Low initial pressure drop
- Consistent efficiency results

APPLICATIONS

These filters can be used without modification in side-access filter housings or built-up filter banks. They offer better efficiency than conventional permanent or disposable flat filters. The Series 400 filters, when used as pre-filters, substantially extend the life of more expensive high-efficiency filters. They are the perfect filter for residential, commercial and industrial use.



FILTRATION GROUP

PLEATED AIR FILTER - SERIES 400

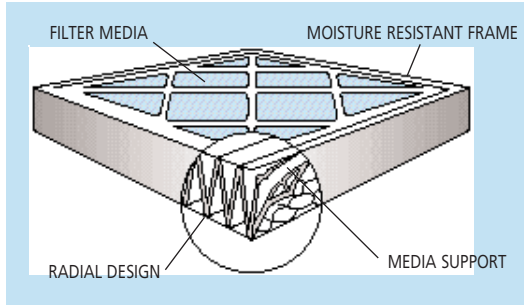
FEET PER MINUTE (fpm)							
FILTER DEPTH	MEDIUM VELOCITY	INITIAL RESISTANCE MEDIUM ("w.g.)		VELOCITY	INITIAL RESISTANCE HIGH ("w.g.)		FINAL RESISTANCE* (ALL FILTERS)
		STD CAP	HIGH CAP		STD CAP	HIGH CAP	
1"	375	.25	.21	500	.37	.33	1.0
2"	375	.18	.17	500	.28	.27	1.0
4"	500	.25	.22	625	.39	.35	1.0

FILTER MEDIA AREA				
FILTER DEPTH	PLEATS PER LINEAR FT		SQ FT OF MEDIA PER SQ FT OF FACE AREA	
	STD CAP	HIGH CAP	STD CAP	HIGH CAP
1"	12	16	1.75	2.33
2"	10	15	3.125	4.688
4"	9	12	5.813	7.75

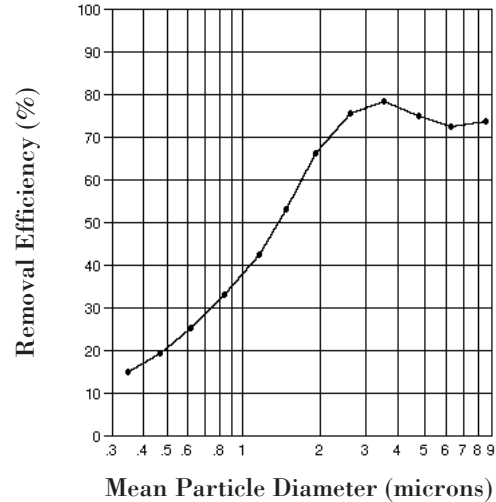
*Recommended Final Resistance. System design may dictate a lower change-out point. (Filters tested to 1.5")

SERIES 400									
PART NUMBER	STANDARD CAPACITY	HIGH CAPACITY	NOMINAL SIZE**	ACTUAL SIZE H x W x D	CFM CAPACITIES		MEDIA AREA (sq. ft.)		
					MEDIUM	HIGH	STANDARD CAPACITY	HIGH CAPACITY	
10403	10476		8 x 16 x 1	7 3/4 x 15 3/4 x 3/4	325	450	1.6	2.4	
10404	10477		10 x 10 x 1	9 3/4 x 9 3/4 x 3/4	250	350	1.3	1.7	
10364	10436		10 x 20 x 1	9 1/2 x 19 1/2 x 3/4	525	700	2.5	3.2	
10405	10478		10 x 24 x 1	9 3/8 x 23 3/8 x 3/4	625	825	3.0	3.9	
10406	10479		10 x 25 x 1	9 3/4 x 24 3/4 x 3/4	650	850	3.1	4.1	
10365	10437		12 x 12 x 1	11 3/4 x 11 3/4 x 3/4	375	500	1.8	2.3	
10407	10480		12 x 16 x 1	11 3/4 x 15 3/4 x 3/4	500	650	2.4	3.2	
10366	10438		12 x 20 x 1	11 3/4 x 19 3/4 x 3/4	625	825	3.0	4.0	
10367	10439		12 x 24 x 1	11 3/8 x 23 3/8 x 3/4	750	1000	3.6	4.8	
10368	10440		12 x 25 x 1	11 3/4 x 24 3/4 x 3/4	775	1025	3.7	5.0	
10369	10441		14 x 20 x 1	13 1/2 x 19 1/2 x 3/4	725	975	3.5	4.7	
10408	10481		14 x 24 x 1	13 3/8 x 23 3/8 x 3/4	875	1150	4.2	5.7	
10370	10442		14 x 25 x 1	13 1/2 x 24 1/2 x 3/4	900	1200	4.4	5.9	
10371	10443		15 x 20 x 1	14 1/2 x 19 1/2 x 3/4	775	1050	3.7	5.0	
10409	10482		15 x 25 x 1	14 1/2 x 24 1/2 x 3/4	975	1300	4.7	6.2	
10410	10483		16 x 16 x 1	15 3/4 x 15 3/4 x 3/4	650	875	3.2	4.3	
10372	10444		16 x 20 x 1	15 1/2 x 19 1/2 x 3/4	825	1100	4.0	5.2	
10411	10484		16 x 24 x 1	15 3/8 x 23 3/8 x 3/4	1000	1325	4.8	6.3	
10373	10445		16 x 25 x 1	15 1/2 x 24 1/2 x 3/4	1050	1400	5.0	6.6	
10412	10485		18 x 18 x 1	17 3/4 x 17 3/4 x 3/4	850	1125	4.1	5.5	
10413	10486		18 x 20 x 1	17 3/4 x 19 3/4 x 3/4	925	1250	4.5	6.0	
10414	10487		18 x 22 x 1	17 3/4 x 21 3/4 x 3/4	1025	1375	5.0	6.7	
10415	10488		18 x 24 x 1	17 3/8 x 23 3/8 x 3/4	1125	1500	5.4	7.2	
10374	10446		18 x 25 x 1	17 1/2 x 24 1/2 x 3/4	1175	1550	5.6	7.5	
10375	10447		20 x 20 x 1	19 1/2 x 19 1/2 x 3/4	1050	1400	5.0	6.7	
10416	10489		20 x 24 x 1	19 3/8 x 23 3/8 x 3/4	1250	1650	6.0	8.1	
10376	10448		20 x 25 x 1	19 1/2 x 24 1/2 x 3/4	1300	1750	6.2	8.4	
10417	10490		22 x 22 x 1	21 3/4 x 21 3/4 x 3/4	1250	1675	6.1	8.1	
10377	10449		24 x 24 x 1	23 3/8 x 23 3/8 x 3/4	1500	2000	7.2	9.6	
10378	10450		25 x 25 x 1	24 3/4 x 24 3/4 x 3/4	1625	2150	7.8	10.3	
10418	10491		10 x 10 x 2	9 3/4 x 9 3/4 x 1 3/4	250	350	2.1	3.2	
10379	10451		10 x 20 x 2	9 1/2 x 19 1/2 x 1 3/4	525	700	4.1	6.2	
10419	10492		12 x 20 x 2	11 3/4 x 19 3/4 x 1 3/4	625	825	5.2	7.8	
10380	10452		12 x 24 x 2	11 3/8 x 23 3/8 x 1 3/4	750	1000	6.2	9.3	
10381	10453		14 x 20 x 2	13 1/2 x 19 1/2 x 1 3/4	725	975	6.2	8.8	
10382	10454		14 x 25 x 2	13 1/2 x 24 1/2 x 1 3/4	900	1200	7.8	11.0	
10383	10455		15 x 20 x 2	14 1/2 x 19 1/2 x 1 3/4	775	1025	6.7	9.8	
10420	10493		16 x 16 x 2	15 3/4 x 15 3/4 x 1 3/4	650	875	5.5	8.4	
10384	10456		16 x 20 x 2	15 1/2 x 19 1/2 x 1 3/4	825	1100	6.7	10.4	
10385	10457		16 x 24 x 2	15 3/8 x 23 3/8 x 1 3/4	1000	1325	8.1	12.4	
10386	10458		16 x 25 x 2	15 1/2 x 24 1/2 x 1 3/4	1050	1400	8.4	12.9	
10421	10494		18 x 22 x 2	17 3/4 x 21 3/4 x 1 3/4	1025	1375	8.6	13.2	
10387	10459		18 x 24 x 2	17 3/8 x 23 3/8 x 1 3/4	1125	1500	9.3	14.3	
10422	10495		18 x 25 x 2	17 3/4 x 24 3/4 x 1 3/4	1175	1550	9.7	14.9	
10388	10460		20 x 20 x 2	19 1/2 x 19 1/2 x 1 3/4	1050	1400	8.8	12.9	
10389	10461		20 x 24 x 2	19 3/8 x 23 3/8 x 1 3/4	1250	1650	10.6	15.5	
10390	10462		20 x 25 x 2	19 1/2 x 24 1/2 x 1 3/4	1300	1750	11.0	16.2	
10391	10463		24 x 24 x 2	23 3/8 x 23 3/8 x 1 3/4	1500	2000	12.4	18.6	
10392	10464		25 x 25 x 2	24 3/4 x 24 3/4 x 1 3/4	1625	2150	13.6	20.1	
10393	10465		12 x 24 x 4	11 3/8 x 23 3/8 x 3 5/8	1000	1250	11.5	15.3	
10394	10466		16 x 20 x 4	15 3/8 x 19 3/8 x 3 5/8	1100	1400	12.8	17.0	
10395	10467		16 x 25 x 4	15 3/8 x 24 3/8 x 3 5/8	1400	1750	16.0	21.3	
10396	10468		18 x 24 x 4	17 3/8 x 23 3/8 x 3 5/8	1500	1875	17.9	23.0	
10397	10469		20 x 20 x 4	19 3/8 x 19 3/8 x 3 5/8	1400	1750	16.0	21.3	
10398	10470		20 x 24 x 4	19 3/8 x 23 3/8 x 3 5/8	1657	2100	19.2	25.5	
10399	10471		20 x 25 x 4	19 3/8 x 24 3/8 x 3 5/8	1750	2200	19.9	26.6	
10400	10472		24 x 24 x 4	23 3/8 x 23 3/8 x 3 5/8	2000	2500	23.0	30.6	
10401	10473		25 x 29 x 4	24 3/8 x 28 3/8 x 3 5/8	2525	3150	29.3	38.6	
10402	10474		28 x 30 x 4	27 3/8 x 29 3/8 x 3 5/8	2900	3650	34.3	44.7	

DESIGN AND CONSTRUCTION



FRACTIONAL EFFICIENCY CHART



Fractional Efficiency for a Clean 24x24x2 High-Capacity Pleated Air Filter at 500 fpm (per 52.2-2007)

MERV (Minimum Efficiency Reporting Value)

A numerical system for comparing filters based on minimum particle size efficiency. A MERV of 1 is least efficient; a 16 is the most efficient. (See ASHRAE 52.2-2007)

High capacity achieves MERV 8, standard capacity achieves MERV 7.

**Special Sizes available upon request.

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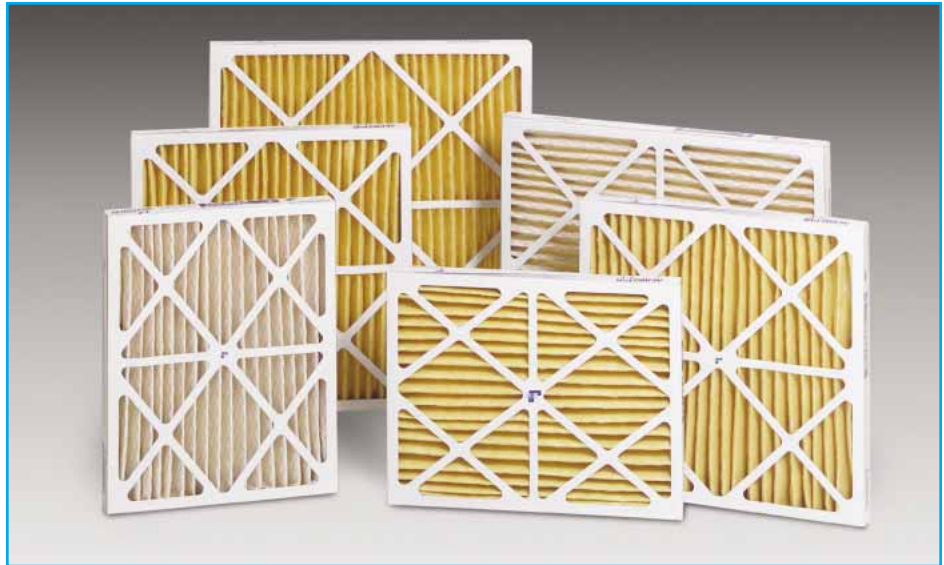


FILTRATION GROUP

PLEATED AIR FILTER - SERIES 1100



- **MERV 11**
(per ASHRAE Standard 52.2)
- Greater than 200 grams dust holding capacity @ 1.5" w.g.
- Initial efficiency is over 2 times greater than traditional cotton poly
- Initial efficiency greater than 74% on 1-3 micron particles
- Moisture resistant 100% synthetic media
- Long service life means lower operating costs
- Low initial pressure drop
- A wide range of sizes in 1", 2" and 4" thicknesses
- UL 900 Class 2



DESCRIPTION

The Series 1100 pleated filters incorporate a 100% synthetic media with an ASHRAE 52.2 MERV 11 (minimum efficiency reporting value). The 1" and 2" filters handle velocities up to 500 FPM—the 4" filters up to 625 FPM.

The media is chemically bonded to a metal grid on the air-exiting side, preventing fluttering, and maintaining uniformity of the pleats. The filter pack is enclosed in a heavy-duty, moisture resistant, die-cut frame that will not warp, crack or distort under normal operating conditions.

Diagonal front and back media retainers are an integral part of the filter frame. The media pack is bonded to every part of the frame, preventing any possibility of air by-pass. Integral pleat separators on the 4" filters provide additional pleat stabilization for the most demanding applications.

BENEFITS

It is possible for a flat filter to face load, thus restricting airflow and creating unnecessary strain on equipment.

The Series 1100 filters accumulate heavier, more restrictive particles at the bottom of the pleats, leaving the sides open longer for effective filtration. The Series 1100 filter is engineered to provide maximum efficiency. In general, deeper pleats result in longer filter life and more time between changeouts.

- Rigid construction with consistent media extends the service life
- Well-built, efficient and easy-to-handle medium efficiency filters
- Achieves MERV 11 (per ASHRAE Standard 52.2)
- Low initial pressure drop
- Consistent efficiency

APPLICATIONS

These filters can be used without modification in side-access filter housing or built-up filter bank. They offer better efficiency than conventional permanent or disposable flat filters. The Series 1100 filters, when used as pre-filters, substantially extend the life of more expensive high efficiency filters. They are the perfect filters for residential, commercial and industrial use.



FILTRATION GROUP

PLEATED AIR FILTER - SERIES 1100

FEET PER MINUTE (FPM)

FILTER DEPTH	MEDIUM VELOCITY	INITIAL RESISTANCE (MEDIUM "w.g.)	HIGH VELOCITY	INITIAL RESISTANCE (MEDIUM "w.g.)	FINAL RESISTANCE* (ALL FILTERS)
1"	375	.30	500	.45	1.0
2"	375	.21	500	.34	1.0
4"	500	.34	625	.45	1.0

*Recommended final resistance. System may dictate a lower change-out point. (Filters tested to 1.5")

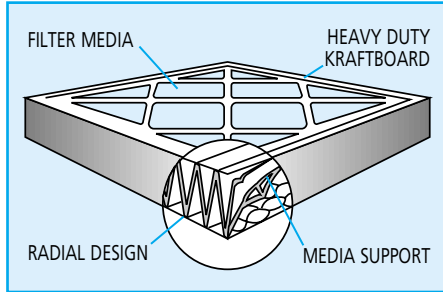
PART NO.	NOMINAL SIZE**	ACTUAL SIZE (H X W X D)	CAPACITY (cfm)		MEDIA AREA (sq. ft.)
			MEDIUM	HIGH	
19617	8 X 16 X 1	7 3/4 X 15 3/4 X 3/4	325	450	2.1
19618	10 X 10 X 1	9 3/4 X 9 3/4 X 3/4	250	350	1.6
19619	10 X 20 X 1	9 1/2 X 19 1/2 X 3/4	525	700	3.2
19620	10 X 24 X 1	9 3/8 X 23 3/8 X 3/4	625	825	3.2
19621	10 X 25 X 1	9 3/4 X 24 3/4 X 3/4	650	850	4.0
19622	12 X 12 X 1	11 3/4 X 11 3/4 X 3/4	375	500	2.3
19623	12 X 16 X 1	11 3/4 X 15 3/4 X 3/4	500	650	3.1
19624	12 X 20 X 1	11 3/4 X 19 3/4 X 3/4	625	825	3.9
19625	12 X 24 X 1	11 3/8 X 23 3/8 X 3/4	750	1000	4.7
19626	12 X 25 X 1	11 3/4 X 24 3/4 X 3/4	775	1025	4.8
19627	14 X 20 X 1	13 1/2 X 19 1/2 X 3/4	725	975	4.6
19628	14 X 24 X 1	13 3/8 X 23 3/8 X 3/4	875	1150	5.4
19629	14 X 25 X 1	13 1/2 X 24 1/2 X 3/4	900	1200	5.8
19630	15 X 20 X 1	14 1/2 X 19 1/2 X 3/4	775	1050	4.9
19631	15 X 25 X 1	14 1/2 X 24 1/2 X 3/4	975	1300	6.1
19632	16 X 16 X 1	15 3/4 X 15 3/4 X 3/4	650	875	4.1
19633	16 X 20 X 1	15 1/2 X 19 1/2 X 3/4	825	1100	5.1
19634	16 X 24 X 1	15 3/8 X 23 3/8 X 3/4	1000	1325	6.2
19635	16 X 25 X 1	15 1/2 X 24 1/2 X 3/4	1050	1400	6.4
19636	18 X 18 X 1	17 3/4 X 17 3/4 X 3/4	850	1125	5.2
19637	18 X 20 X 1	17 3/4 X 19 3/4 X 3/4	925	1250	5.8
19638	18 X 22 X 1	17 3/4 X 21 3/4 X 3/4	1025	1375	6.4
19639	18 X 24 X 1	17 3/8 X 23 3/8 X 3/4	1125	1500	7.0
19640	18 X 25 X 1	17 1/2 X 24 1/2 X 3/4	1175	1550	7.3
19641	20 X 20 X 1	19 1/2 X 19 1/2 X 3/4	1050	1400	6.6
19642	20 X 24 X 1	19 3/8 X 23 3/8 X 3/4	1250	1650	7.7
19643	20 X 25 X 1	19 1/2 X 24 1/2 X 3/4	1300	1750	8.2
19644	22 X 22 X 1	21 3/4 X 21 3/4 X 3/4	1250	1675	7.8
19645	24 X 24 X 1	23 3/8 X 23 3/8 X 3/4	1500	2000	9.3
19646	25 X 25 X 1	24 3/4 X 24 3/4 X 3/4	1625	2150	10.1
19647	10 X 10 X 2	9 3/4 X 9 3/4 X 1 3/4	250	350	2.2
19648	10 X 20 X 2	9 1/2 X 19 1/2 X 1 3/4	525	700	4.2
19649	12 X 20 X 2	11 3/4 X 19 3/4 X 1 3/4	625	825	5.3
19650	12 X 24 X 2	11 3/8 X 23 3/8 X 1 3/4	750	1000	9.0
19651	14 X 20 X 2	13 1/2 X 19 1/2 X 1 3/4	725	975	6.3
19652	14 X 25 X 2	13 1/2 X 24 1/2 X 1 3/4	900	1200	7.9
19653	15 X 20 X 2	14 1/2 X 19 1/2 X 1 3/4	775	1025	6.9
19654	16 X 16 X 2	15 3/4 X 15 3/4 X 1 3/4	650	875	5.6
19655	16 X 20 X 2	15 1/2 X 19 1/2 X 1 3/4	825	1100	10.1
19656	16 X 24 X 2	15 3/8 X 23 3/8 X 1 3/4	1000	1325	8.2
19657	16 X 25 X 2	15 1/2 X 24 1/2 X 1 3/4	1050	1400	12.6
57404	18 X 20 X 2	17 1/2 X 19 1/2 X 1 3/4	940	1250	11.6
19658	18 X 22 X 2	17 3/4 X 21 3/4 X 1 3/4	1025	1375	8.8
19659	18 X 24 X 2	17 3/8 X 23 3/8 X 1 3/4	1125	1500	13.6
19660	18 X 25 X 2	17 3/4 X 24 3/4 X 1 3/4	1175	1550	9.9
19661	20 X 20 X 2	19 1/2 X 19 1/2 X 1 3/4	1050	1400	12.6
19662	20 X 24 X 2	19 3/8 X 23 3/8 X 1 3/4	1250	1650	15.1
19663	20 X 25 X 2	19 1/2 X 24 1/2 X 1 3/4	1300	1750	15.7
19664	24 X 24 X 2	23 3/8 X 23 3/8 X 1 3/4	1500	2000	18.1
19665	25 X 25 X 2	24 3/4 X 24 3/4 X 1 3/4	1625	2150	19.7
19666	12 X 24 X 4	11 3/8 X 23 3/8 X 3 5/8	1000	1250	14.5
19667	16 X 20 X 4	15 3/8 X 19 3/8 X 3 5/8	1100	1400	16.1
19668	16 X 25 X 4	15 3/8 X 24 3/8 X 3 5/8	1400	1750	20.1
19669	18 X 24 X 4	17 3/8 X 23 3/8 X 3 5/8	1500	1875	21.8
19670	20 X 20 X 4	19 3/8 X 19 3/8 X 3 5/8	1400	1750	20.1
19671	20 X 24 X 4	19 3/8 X 23 3/8 X 3 5/8	1657	2100	24.2
19672	20 X 25 X 4	19 3/8 X 24 3/8 X 3 5/8	1750	2200	25.2
19673	24 X 24 X 4	23 3/8 X 23 3/8 X 3 5/8	2000	2500	29.0
19674	25 X 29 X 4	24 3/8 X 28 3/8 X 3 5/8	2525	3150	36.5
19675	28 X 30 X 4	27 3/8 X 29 3/8 X 3 5/8	2900	3650	42.3

**Special sizes available upon request

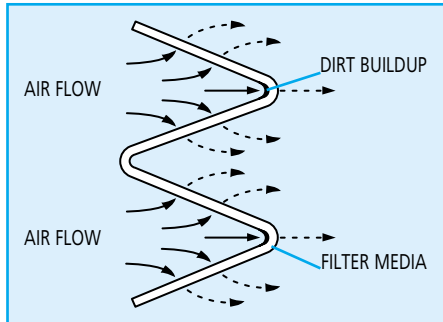
FILTER MEDIA AREA

FILTER DEPTH	PLEATS PER LINEAR FT.	SQ. FT. OF MEDIA PER SQ. FT. OF FACE AREA
1"	16	2.333
2"	15	4.688
4"	12	7.75

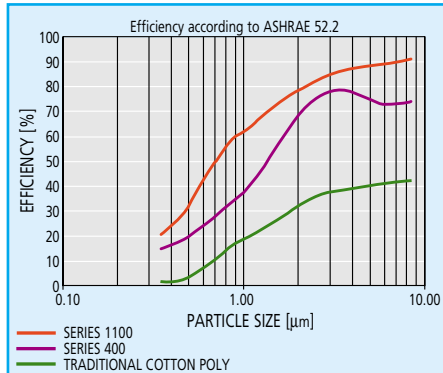
DESIGN AND CONSTRUCTION



PRINCIPLE OF FILTRATION



SERIES 1100 PLEATED FILTER



MERV (Minimum Efficiency Reporting Value)

A numerical system for comparing filters based on minimum particle size efficiency. A MERV of 1 is least efficient; a 16 is the most efficient. (See ASHRAE 52.2)

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