Hardy Filtration

Integrated filtration solutions: air, water & oil

Pleated air filters

MAXI AIR MERV 13

Description

The MAXI-AIR MERV 13 pleated air filter features the latest in media technology to achieve MERV 13 while maintaining low pressure drop and good service life. The new MAXI-AIR 13 pleat is optimized for "LEED" compliance.

The red line on the media indicates that this filter is classified MERV 13.

The MAXI-AIR MERV 13 filtration media incorporates 100% synthetic fibers which are electrostatically charged, thermally bonded and are manufactured in an engineered gradient structure. The thermally-bonded fibers do not absorb moisture and will not support microbial growth. The engineered grading structure media supports high dust-holding capacity and long filter service life. MAXI-AIR MERV 13 MEDIA is laminated to a heavy-duty, galvanized, rust-resistant metal backing that stabilizes the media during operation. The pleats are formed in a radial configuration to ensure proper dust-loading. The pleated media pack is adhered to the peripheral interior of a heavy-duty beverage-board die-cut frame to prevent air bypass. The beverage-board frame creates a double-wall thickness around the perimeter of the filter.

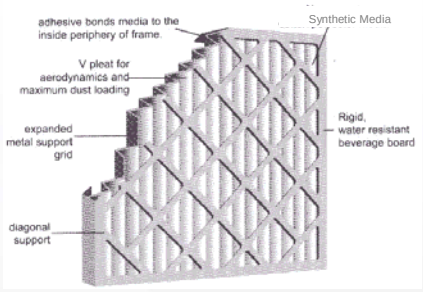
The MAXI-AIR MERV 13 FILTER was developed to comply with "LEED" standards in new and existing buildings. Additionally, the MERV 13 is a cost effective upgrade from standard pleated filters, ring panels and other lower efficiency panel filters and can be used is a wide variety of existing applications without modification to the existing equipment.

Care should be taken to ensure the air handling equipment can handle the added pressure drop.

MERV 13

Construction

- Heavy duty beverage board frame.
- 100% Synthetic filter element.
- Media is bonded to a metal backing.
- Media pack is glued to all parts of the frame.
- UL Class 2.



High efficiency synthetic media

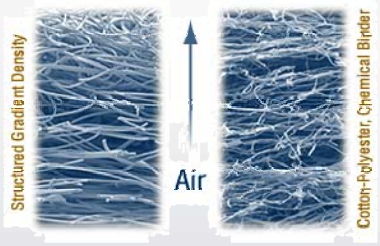


Figure 1: INTREPID® Filtration Media (Charged-Mechanical)

Figure 2: Cotton-Polyester Media (Uncharged-Mechanical)

- Very resistant to various contaminants in the air.
- Lower pressure drop.
- Excellent bi-directional strength.
- Higher dust holding capacity leads to longer life.
- No fiber shedding.
- No bonding resins / thermally bonded.
- Withstands high levels of humidity.
- Does not support microbial growth and fungus.

2405, Jules-Vachon, Trois-Rivières (Québec) CANADA G9A 5E1 T 819 373.7400 F 819 373.7341 TOLL FREE 1 888 373.4913 www.hardyfiltration.com

Pleated air filters — MAXI AIR MERV 13

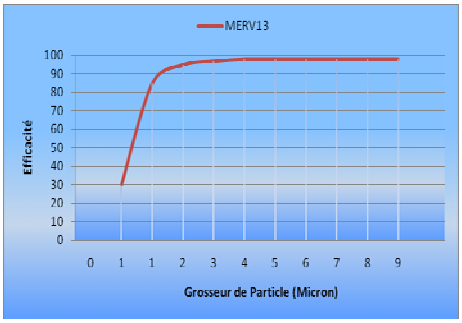
Performance

Standard dimensions

DIMENSIONS W X H X P	MODEL NO	REAL DIMENSIONS Width	Height	Depth	CAPACITY C.F.M. 300 F.P.M.	500 F.P.M.	625 F.P.M.	SURFACE AREA SQUARE FEET
10 X 20 X 1	MRV1319-11020	9.375	19.375	0.75	400	700	-	3.3
12 X 24 X 1	MRV1319-11224	11.375	23.375	0.75	600	1000	-	4.7
14 X 20 X 1	MRV1319-11420	13.375	19.375	0.75	580	975	-	4.7
14 X 25 X 1	MRV1319-11425	13.375	24.375	0.75	730	1200	-	5.9
15 X 20 X 1	MRV1319-11520	14.375	19.375	0.75	625	1050	-	4.9
16 X 20 X 1	MRV1319-11620	15.375	19.375	0.75	670	1100	-	5.6
16 X 24 X 1	MRV1319-11624	15.375	23.375	0.75	800	1350	-	6.7
16 X 25 X 1	MRV1319-11625	15.375	24.375	0.75	830	1400	-	7.0
18 X 24 X 1	MRV1319-11824	17.375	23.375	0.75	900	1500	-	7.2
18 X 25 X 1	MRV1319-11825	17.375	24.375	0.75	940	1560	-	7.5
20 X 20 X 1	MRV1319-12020	19.375	19.375	0.75	830	1400	-	6.8
20 X 24 X 1	MRV1319-12024	19.375	23.375	0.75	1000	1650	-	8.2
20 X 25 X 1	MRV1319-12025	19.375	24.375	0.75	1040	1750	-	8.5
24 X 24 X 1	MRV1319-12424	23.375	23.375	0.75	1200	2000	-	9.6
10 X 20 X 2	MRV1319-21020	9.375	19.375	1.75	400	700	-	7.2
12 X 24 X 2	MRV1319-21224	11.375	23.375	1.75	600	1000	-	10.4
14 X 20 X 2	MRV1319-21420	13.375	19.375	1.75	580	975	-	10.6
14 X 25 X 2	MRV1319-21425	13.375	24.375	1.75	730	1200	-	13.2
15 X 20 X 2	MRV1319-21520	14.375	19.375	1.75	625	1050	-	11.0
16 X 16 X 2	MRV1319-21616	15.375	15.375	1.75	535	890	-	11.5
16 X 20 X 2	MRV1319-21620	15.375	19.375	1.75	670	1100	-	11.5
16 X 24 X 2	MRV1319-21624	15.375	23.375	1.75	800	1350	-	13.9
16 X 25 X 2	MRV1319-21625	15.375	24.375	1.75	830	1400	-	14.4
18 X 20 X 2	MRV1319-21820	17.375	19.375	1.75	750	1250	-	13.4
18 X 24 X 2	MRV1319-21824	17.375	23.375	1.75	900	1500	-	16.2
18 X 25 X 2	MRV1319-21825	17.375	24.375	1.75	940	1560	-	16.8
20 X 20 X 2	MRV1319-22020	19.375	19.375	1.75	830	1400	-	14.4
20 X 24 X 2	MRV1319-22024	19.375	23.375	1.75	1000	1650	-	17.3
20 X 25 X 2	MRV1319-22025	19.375	24.375	1.75	1040	1750	-	18.0
24 X 24 X 2	MRV1319-22424	23.375	23.375	1.75	1200	2000	-	21.4
25 X 25 X 2	MRV1319-22525	24.375	24.375	1.75	1300	2170	-	23.5
12 X 24 X 4	MRV1319-41224	11.375	23.375	3.625	600	1000	1250	14.8
16 X 20 X 4	MRV1319-41620	15.375	19.375	3.625	670	1100	1400	16.5
16 X 25 X 4	MRV1319-41625	15.375	24.375	3.625	830	1400	1750	20.6
18 X 24 X 4	MRV1319-41824	17.375	23.375	3.625	900	1500	1875	20.5
20 X 20 X 4	MRV1319-42020	19.375	19.375	3.625	830	1400	1750	19.5
20 X 24 X 4	MRV1319-42024	19.375	23.375	3.625	1000	1650	2100	23.5
20 X 25 X 4	MRV1319-42025	19.375	24.375	3.625	1040	1750	2200	24.5
24 X 24 X 4	MRV1319-42424	23.375	23.375	3.625	1200	2000	2500	28.5
25 X 29 X 4	MRV1319-42529	24.5	28.5	3.625	1500	2500	3000	33.5

Special sizes available upon request.

Efficiency by particle size



Technical information

Model	Depth	Pleats per foot	Initial resistance (300 FPM)	Initial resistance (500 FPM)	Initial resistance (625 FPM)	Final resistance	Efficiency (%) ASHRAE STD 52.1	MERV ASHRAE 52.2	Temperature (°F)
MRV13	1"	20	.38"	N.R.	N.R.	1.0"	80-85%	13	200
	2"	19	.21"	.38"	N.R.	1.0"	80-85%	13	200
	4"	11	.12"	.26"	.38"	1.0"	80-85%	13	200

Hardy Filtration Inc. reserves the right to make changes without notice.

2405, Jules-Vachon, Trois-Rivières (Québec) CANADA G9A 5E1 T 819 373.7400 F 819 373.7341 TOLL FREE 1 888 373.4913 www.hardyfiltration.com