

M-DP DISPOSABLE PANEL FILTER



PRODUCT FEATURES

- Excellent performance with a robust structure and uniform pleat design. High-quality fluffy synthetic media ensures high dust holding capacity and versatile performance.
- M-DP extended pleat panel filter features an integrated die-cut construction with uniform pleats and a double-layer moisture-resistant, high-temperature-resistant cardboard frame, offering a compact, lightweight design for easy handling.

APPLICATIONS

- Pre-filtration for HVAC systems to prevent internal dust accumulation and contamination.
- Pre-filtration for large air compressors.
- Pre- and return air filtration in cleanroom HVAC systems to extend the service life of downstream HEPA filters.
- Ventilation systems in general industrial facilities to meet basic air cleanliness requirements.
- Coarse dust filtration for HVAC systems in commercial buildings.

EFFICIENCY

- G4, MERV7-8

PRODUCT STRUCTURE DESCRIPTION

- M-DP features a simple yet robust structure, with double-layer die-cut cardboard combined with filter media to form an integrated construction; the cardboard is moisture- and high-temperature-resistant, and all bonding points are tightly sealed with the media, enhancing structural strength while maintaining pleat integrity and uniform spacing.
- M-DP filter media is a special blend of nonwoven and synthetic fibers, offering a fluffy structure with high dust holding capacity and low initial resistance; the media is bonded with an expanded metal mesh and processed into uniform-height, evenly spaced pleats, allowing balanced airflow and uniform dust loading across the entire surface, while the mesh reinforcement improves pleat strength, reduces vibration during operation, and minimizes secondary contamination.
- M-DP is available in three performance grades based on pleat density: DP30, DP20, and DP10.

Technical Parameters							
Performance Code	Performance Level	Rated Initial Pressure Drop					
		300FPM / 1.52m/s		500FPM / 2.54m/s		625FPM / 3.18m/s	
		Inch of Water	Pa	Inch of Water	Pa	Inch of Water	Pa
DP30 2" 4"	Excellent	0.12	31	0.29	72	0.39	98
		0.11	29	0.24	61	0.35	88
DP20 2" 4"	Standard	0.14	35	0.30	77	0.45	113
		0.12	33	0.26	65	0.37	93
DP10 2" 4"	Economic	0.15	38	0.32	80	0.47	117
		0.14	35	0.27	68	0.38	96

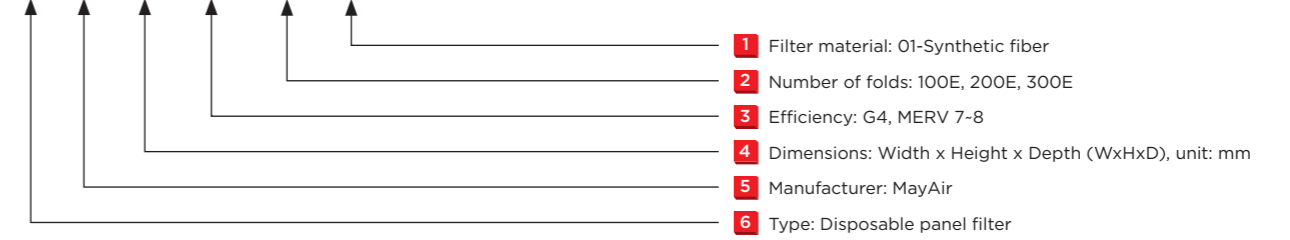
Note: Initial pressure drop performance tolerance is ±10%

List of Materials	
Frame	Moisture-resistant cardboards
Filter Depth	22mm / 44mm / 95mm
Filter Material	Non-woven synthetic fiber with metal wire mesh

Applicable Conditions	
Maximum Temperature	70°C (158°F)

NAME SPECIFICATION

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Product Specifications										
Nominal Dimensions W x H x D (Inch)	Actual Dimensios W x H x D (mm)	Airflow (m³/h)			DP30		DP20		DP10	
					Pleat Count (Pleats)	Media Area (m²)	Pleat Count (Pleats)	Media Area (m²)	Pleat Count (Pleats)	Media Area (m²)
12 x 24 x 1	289 x 594 x 22	1,020	1,700	—	14	0.37	—	—	—	—
24 x 24 x 1	594 x 594 x 22	2,040	3,400	—	28	0.74	—	—	—	—
12 x 24 x 2	289 x 594 x 44	1,020	1,700	2,125	14	0.73	11	0.58	7	0.37
16 x 20 x 2	392 x 492 x 44	1,050	1,730	2,200	18	0.78	14	0.61	10	0.44
16 x 24 x 2	390 x 594 x 44	1,270	2,090	2,660	18	0.95	14	0.74	10	0.53
20 x 20 x 2	492 x 492 x 44	1,445	2,380	2,980	23	1.01	17	0.74	12	0.52
20 x 24 x 2	492 x 594 x 44	1,700	2,800	3,570	23	1.21	17	0.89	12	0.63
24 x 24 x 2	594 x 594 x 44	2,040	3,400	4,250	28	1.47	22	1.15	15	0.79
12 x 24 x 4	289 x 594 x 95	1,020	1,700	2,125	10	1.13	8	0.91	7	0.79
18 x 20 x 4	441 x 492 x 95	1,150	1,900	2,400	19	1.77	14	1.31	10	0.93
20 x 24 x 4	492 x 594 x 95	1,700	2,800	3,570	23	2.59	17	1.91	12	1.35
24 x 24 x 4	594 x 594 x 95	2,040	3,400	4,250	21	2.37	18	2.03	15	1.70
25 x 25 x 4	620 x 620 x 95	2,100	3,460	4,400	22	2.59	19	2.24	16	1.89

Remark:
1. Special sizes available upon request, recommended final pressure drop value 250Pa.
2. Tolerance: (-2mm, +5mm).