

NEW AND IMPROVED



NOVA PLEAT®

**2"
MERV 8**

STANDARD
AND
HIGH CAPACITY



Ideal for use in

- Commercial
- Industrial
- Hospitals/Health Care Facilities

WHAT'S NEW?

- Through the use of CFD (computational fluid dynamics), we have developed our best NOVA^{PLEAT} yet!
 - 23% lower pressure drop
 - 23% lower energy cost
- Stronger and more durable than ever
 - Increased moisture resistance
 - Patented*, rugged structural design

* U.S. patent numbers 7,156,891 and D544,949

WHY A SELF-SUPPORTED PLEAT?

- Virtually eliminates shipping damage
- Better for the environment
 - No RoHS risk (heavy metals)
 - Reduces landfill waste
 - Fully incinerable
 - No metal corroding
 - MERV 8 filter may be used for LEED certification points

Filtration Group

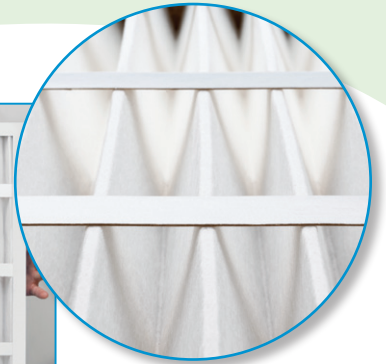
HVAC



2" NOVA PLEAT AND NOVA PLEAT HC



The NOVA PLEAT and NOVA PLEAT HC are engineered to be extremely durable and can withstand considerable abuse resulting from shipping damage and mishandling.



Square top pleat design provides added rigidity and improved airflow characteristics.

NOVA PLEAT ENGINEERING SPECIFICATIONS

1.0 General

- 1.1 Filters shall be Aerostar® NOVA PLEAT extended surface pleated air filters as manufactured by Filtration Group.
- 1.2 Filters shall be available in standard and high capacity configurations with a depth of 2".
- 1.3 Underwriters Laboratories classified to UL 900.
- 1.4 Filters are manufactured by an ISO 9001 registered company.

2.0 Filter Materials of Construction

- 2.1 Media shall be 100% synthetic media that does not support microbial growth with a square top pleat tip that increases surface contact and increases filter rigidity.
- 2.2 Frame shall be a heavy-duty, high strength, moisture resistant paperboard with horizontal strips and a vertical support strut in larger sizes on the downstream side that increases filter rigidity and prevents breaching. Frame shall be made with 100% recycled paperboard with an average of 35% post-consumer content.
- 2.3 Filters shall be of a metal-free construction that can be completely incinerated and does not contain galvanized steel to reduce its impact when land-filled.

3.0 Filter Performance

- 3.1 Filters shall be available in a MERV 8 standard capacity and high capacity configuration when fully tested in accordance with ASHRAE 52.2-2007 Test Standard.
- 3.2 Filter shall have a low initial pressure drop that shall not exceed 0.23" w.g. in high capacity at 500 fpm air flow; and 0.26" w.g. in standard capacity at 500 fpm air flow.
- 3.3 Filters shall be rated to withstand a continuous operating temperature of up to 150°F.
- 3.4 Filters shall have a recommended final resistance of 1.0" w.g.

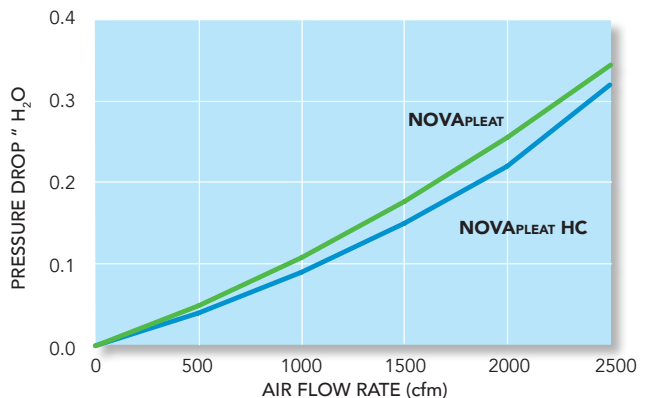
2" NOVA PLEAT AND NOVA PLEAT HC

PART NUMBER		SIZE	CFM CAPABILITIES	
NOVA PLEAT	NOVA PLEAT HC		MEDIUM	HIGH
21130	21255	12 x 20 x 2	495	825
21131	21256	12 x 24 x 2	600	1000
21132	21257	14 x 20 x 2	585	975
21133	21258	14 x 25 x 2	720	1200
21134	21259	15 x 20 x 2	615	1025
21135	21260	16 x 16 x 2	525	875
21136	21261	16 x 20 x 2	665	1110
21137	21262	16 x 24 x 2	800	1335
21138	21263	16 x 25 x 2	835	1390
21501	21500	18 x 18 x 2	675	1125
21139	21264	18 x 20 x 2	750	1250
21140	21265	18 x 22 x 2	825	1375
21141	21266	18 x 24 x 2	900	1500
21142	21267	18 x 25 x 2	940	1565
21143	21268	20 x 20 x 2	835	1390
21144	21269	20 x 24 x 2	1000	1665
21145	21270	20 x 25 x 2	1040	1735
21146	21271	24 x 24 x 2	1200	2000
21147	21272	25 x 25 x 2	1300	2170

24 x 24 x 2 INITIAL RESISTANCE

PRODUCT	300 FPM	500 FPM	MERV
NOVA PLEAT	0.14" w.g.	0.26" w.g.	8
NOVA PLEAT HC	0.11" w.g.	0.23" w.g.	8

AIR FLOW vs PRESSURE DROP



Test data results based on 24" x 24" x 2" filter sample.

Filtration Group



HVAC

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