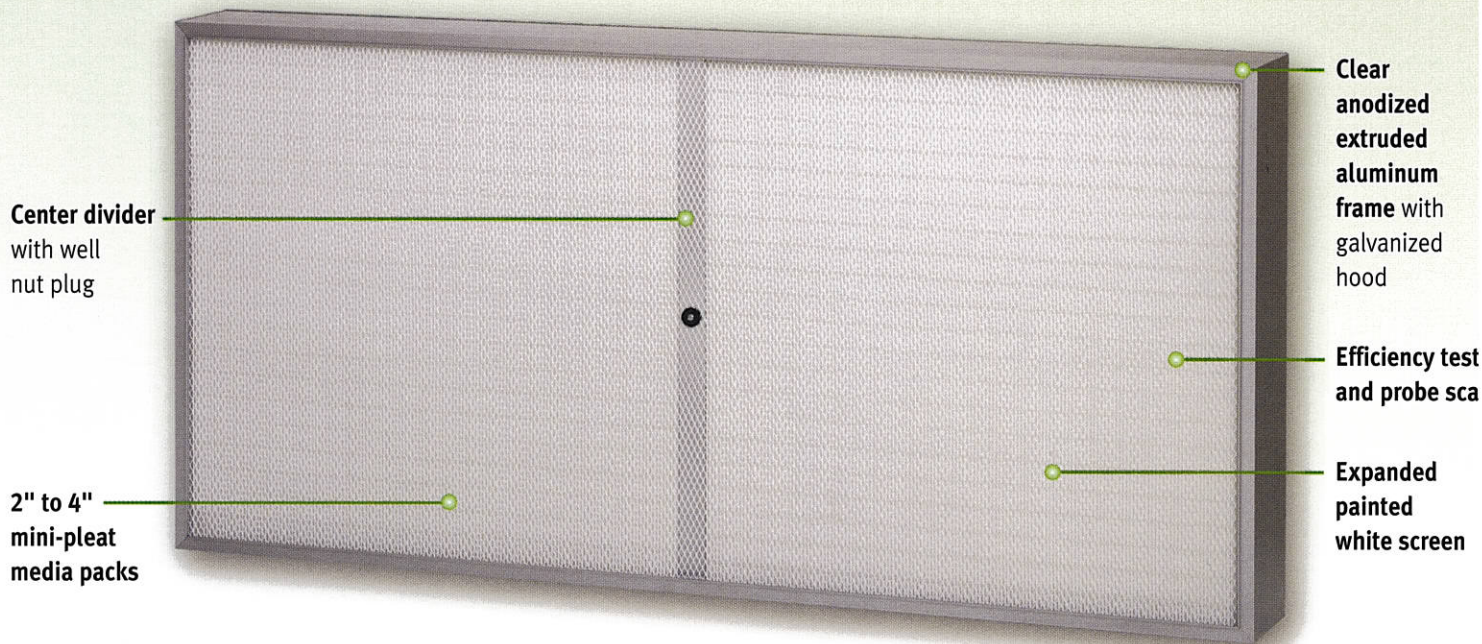


ULTRASTAR DUCTED TERMINAL MODULES



► **99.99% (HEPA) Minimum Removal** on 0.3µm efficiency and up to 99.9995% (ULPA) at 0.12µm

► **2" to 4" Low Pressure, Mini-Pleat Media Packs**

► **Anodized Extruded Aluminum Frame** with galvanized top plate and inlet collar

► **Efficiency Test and Probe Scan on All Filters** in accordance with IES-RP-CC-001.4 and IES-RP-CC-007.1

► **Fixed or Adjustable Diffuser or Butterfly Damper**

► **UL 900 Class 2 Listed**

DESCRIPTION

The UltraStar Ducted Terminal Modules use mini-pleated wet laid glass media with efficiency from 99.99% to 99.9995% . Designed for easy installation and longer service life. The media pack is a 2" up to 4" (51mm to 127mm) depth with an overall frame height of 5.25", 5.88" or 7.25" respectively.

BENEFITS

- An adjustable damper creates balanced and uniform airflow distribution exiting the filter
- Built-in seismic holes and 2" high continuous inlet collar reduces installation time and assures that connections are secure
- Low pressure drop design reduces energy consumption
- 70% open face screen keeps the high performance of the media intact

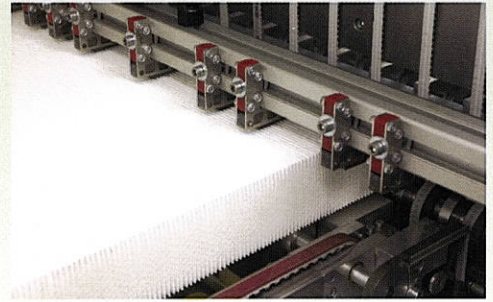
APPLICATIONS

These ducted modules are designed to optimize performance in filtration applications for the pharmaceutical, medical, semiconductor, microelectronic, biotechnology and photographic industries as well as for surgical rooms in hospitals.

THE SENTINEL PLEAT DEFINES PRECISION PLEATING

WHY PRECISION IS SO IMPORTANT...

Sentinel precision pleat geometry plays a critical role in the ability of the filter media to perform over the life expectancy of the filter. Poor pleat shape and spacing results in non-uniform airflow characteristics, poor velocity profiles and shortened filter life expectancy. With the Sentinel Pleat, these potential issues are no longer a concern—the Sentinel Pleat is that efficient and precise.



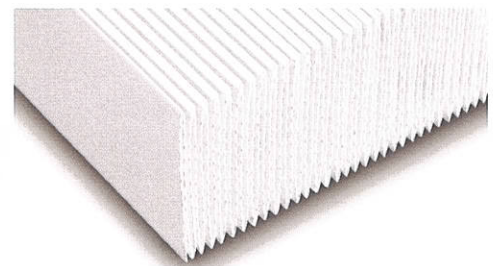
EXCEEDING INDUSTRY STANDARDS...

The Sentinel Pleat is a world class process that exceeds all industry standards with its optimized, unidirectional airflow performance. With the Sentinel Pleat, Filtration Group has the technological advantages and manufacturing flexibility to exceed the demands and design requirements of customers, OEMs and all aftermarket applications.



TESTED TO YOUR SPECIFICATIONS...

When scanning and efficiency testing the filters Filtration Group tests per IEST-RP-CC-001.4 (for HEPA), IEST-RP-CC-007.1 (for ULPA) as well as EN 1822 (for MPPS)—depending on customer requirements. We offer a variety of test challenges including oil (PAO) and non-oil (PSL) based aerosols.



QUALITY YOU CAN TRUST...

Following Six Sigma standards, production data, manufacturing history, test results as well as the traceability of raw materials are recorded and stored for each product according to its own unique serial number. The test history is monitored to assure performance through statistical process capability analysis.

BAR CODING ASSURES COMPLIANCE...

A mistake proof labeling system utilizing bar codes assuring each product is properly labeled. Each label displays a particular product's airflow, efficiency and initial pressure drop which was recorded during the testing process and is retrieved from stored data before the label is printed. Other information that appears on the label includes filter size, serial number and part number, which is also converted and printed as bar codes on the label.

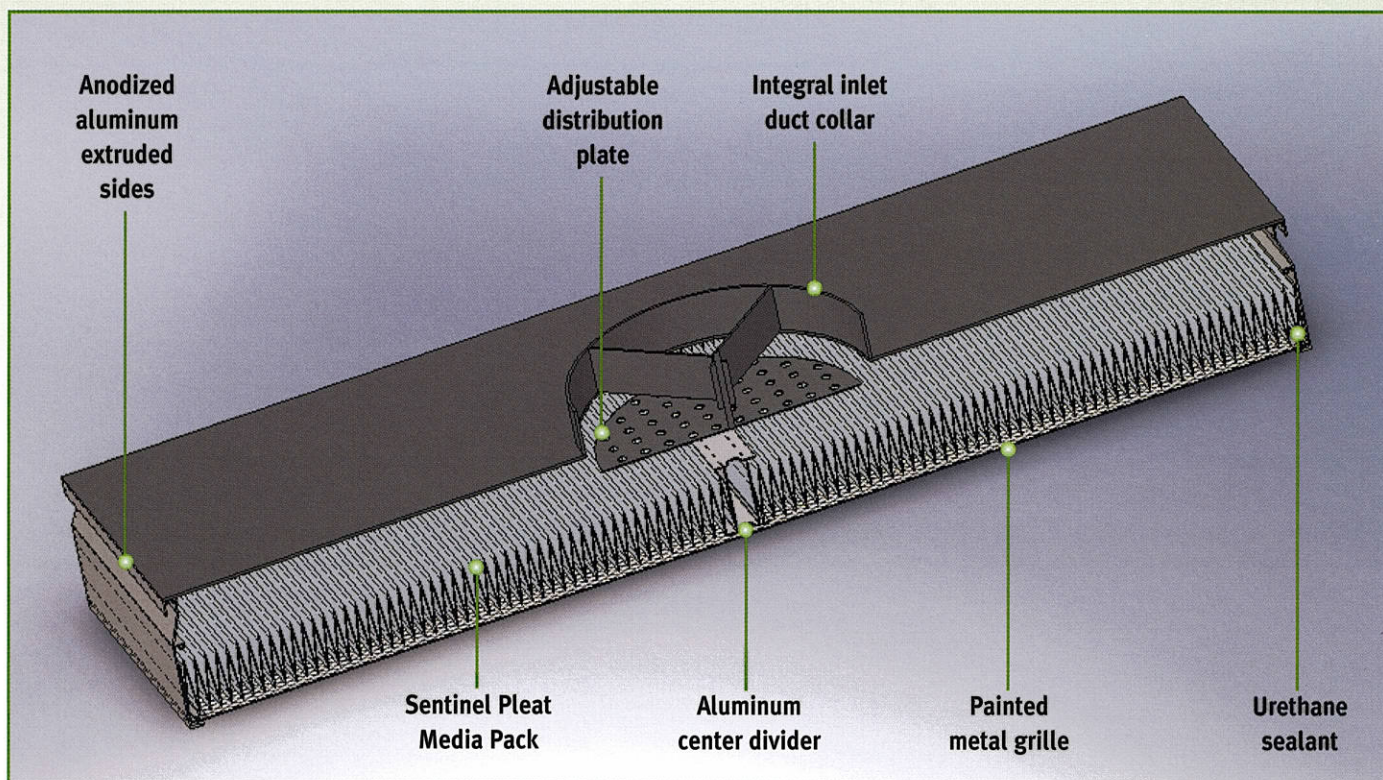
SERIAL NUMBER 325487	23.62 x 47.62 x 8.94
WORK ORDER NUMBER 6180021	ASSEMBLY: MC MC
MEDIA LOT NUMBER 70154323	GASKET: GEL AB
PART NUMBER 42691	SCREEN: DS SIDE
PASSED	SCAN 99.99% HEPA
	LABEL: LFCR-YES SCAN
	FINAL TEST: LM

THE SENTINEL PLEAT IS UNIQUELY SUPERIOR...

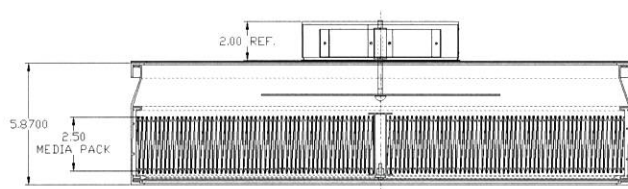
- 100% testing provides an accurate assessment of product performance
- Tests are made to industry standards and specified customer requirements
- A bar-coded process control label is utilized to assure process compliance with automatic stop-gates on product dimensions, test compliance, operator identification and material lot traceability documentation
- Custom labeling, packaging and performance testing is also provided.

AEROSTAR		PART NUMBER 42691		SERIAL NUMBER 325487	
23.62	47.62	8.94	EFFICIENCY (%) 99.999 @ 0.3 Micron	INITIAL dP 0.5	SCFM 605
42691			PACK DATE MPOCM 4/19/2007		
Caption Title: AIR FILTER UNIT AS TO LABABILITY ONLY CLASS 2 401R12347 PLANT 50					

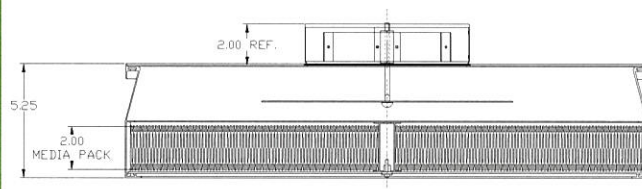
AEROSTAR		23.62 x 47.62 x 8.94		PART NUMBER 42691		SERIAL NUMBER 325487	
23.62	47.62	8.94	EFFICIENCY (%) 99.999 @ 0.3 Micron	INITIAL dP 0.5	SCFM 605	PACK DATE MPOCM 4/19/2007	
42691			N/A				



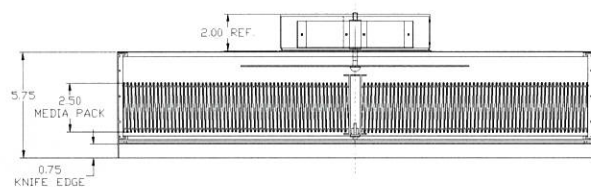
DTM-01 SECTION



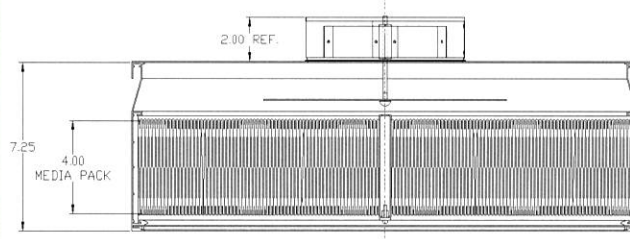
DTM-12 SECTION



DTM-15 SECTION



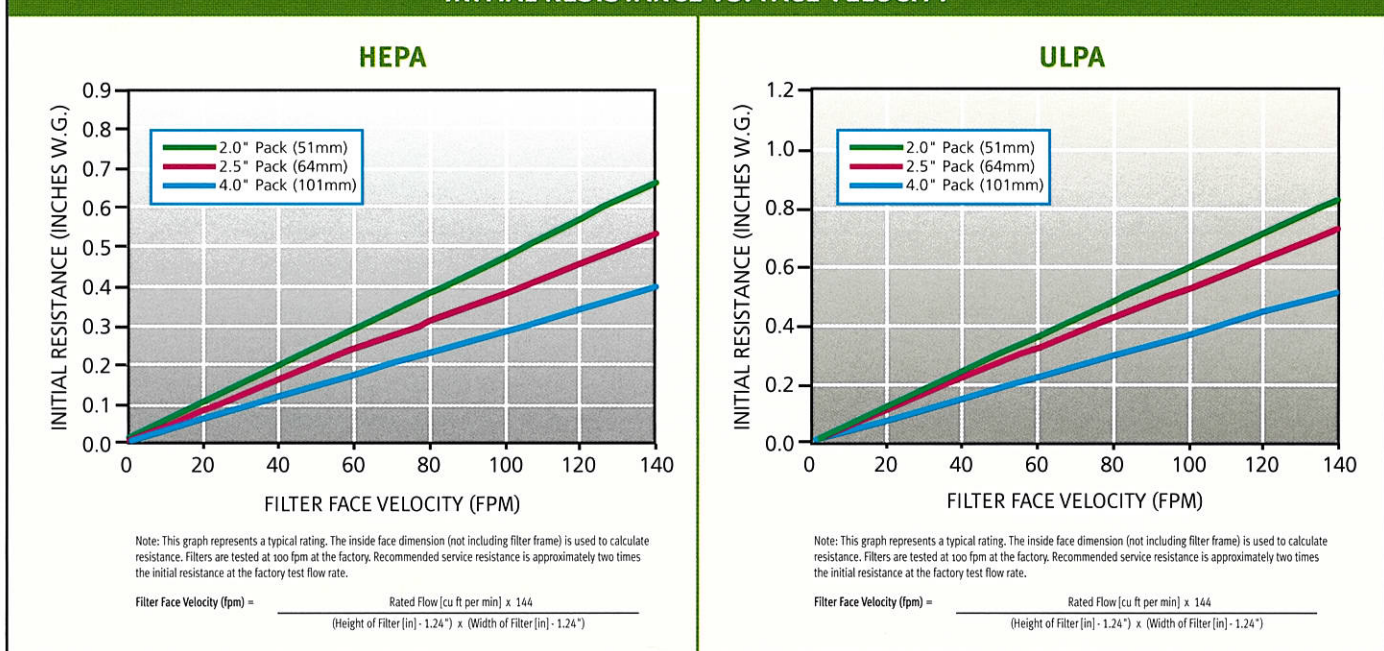
DTM-20 SECTION



ULTRASTAR DUCTED TERMINAL MODULES

FEATURES	BENEFITS
Adjustable dampers providing balanced and uniform airflow over the complete filter	Uniform Distribution of Airflow
Frame corners secured with internal corner clips and urethane seal to reduce rivet and metal shaving contamination	Leak Proof
Maximized media content for lower pressure drop and extended service life	Lower Energy Cost
Aluminum frames reduce weight and need for structural support	Easy Installation, Light Weight
70% open face screen keeps the high performance of the media intact	Low Pressure Drop
Built-in seismic holes and 2" high continuous inlet collar reduces installation time and assures that connections are secure	Easy Installation and Safety

INITIAL RESISTANCE VS. FACE VELOCITY



AVAILABLE OPTIONS

- Downstream gasket
- Additional test ports
- Perforated or expanded stainless steel or anodized aluminum downstream screen
- Insulation
- 8" or 14" inlet collars
- Fixed or adjustable diffuser or butterfly damper
- Testing to IEST or EN1822 standards
- Flow through lights
- Reinforced walkable tops
- Sheet rock adapter

STANDARD FACE SIZES

Nominal Size	1 1/2" T-BAR		2" T-BAR	
	Actual Size	Rated Air Flow (scfm)*	Actual Size	Rated Air Flow (scfm)*
24 x 24	23.62 x 23.62	317	23 x 23	300
24 x 36	23.62 x 35.62	500	23 x 35	475
24 x 48	23.62 x 47.62	685	23 x 47	650

These sizes are available in 99.99% and 99.9995% efficiencies with 10" or 12" inlet collar.

*Rated air flow based on 100 fpm face velocity.

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