

AIREPANEL

Minipleat HEPA/ULPA Filters

Description

AirePanel Minipleat HEPA filters have been designed to meet the needs of critical applications where HEPA filtration is required.

AirePanel Minipleat HEPA filters are rated at H14 to EN 1822:2009. Optional rating of U15 to EN 1822:2009 is also available.

AirePanel Minipleat HEPA filters have been manufactured from the highest quality of materials under strict quality control conditions, and are certified to ensure performance under the most critical of conditions for performance and leak-free operation.

Typical applications for AirePanel Minipleat HEPA filters include, medical facilities, universities, pharmaceutical manufacturing, research facilities, food and dairy processing facilities and in any application where ultra clean air is a requirement.

Construction

The AirePanel Minipleat HEPA filter casing can be manufactured from a range of materials, with extruded anodised aluminium being the standard choice. AirePanel Minipleats come standard in 50mm deep packs, these are offered up to a maximum of 300mm of which offers significant savings on energy with less pressure drops. These packs can also be offered into standard 149mm and 292mm aluminium double turned flange arrangement if required.

AirePanel Minipleat HEPA and ULPA filter media are manufactured from moisture resistant micro glass fibre media, which is highly resistant to moisture in high humidity environments. The HEPA media is then formed into closely-spaced pleats held apart by a continuous thermoplastic cord. Positive pleat separation maximises the use of the media area and minimises pressure drops. The media pack is then bonded into the frame using polyurethane.

AirePanel CS Minipleat HEPA filters have been designed with a channel provided on either the downstream or upstream perimeter of the filter frame. This perimeter channel is then factory filled with a gel seal (fluid seal) sealant. Fluid seal applications help limit the possibility of air bypass sometimes associated with gasket seal applications.

Testing

Each AirePanel HEPA filter is individually tested and certified to meet the customer's requirements for resistance and efficiency. Each filter is labelled noting tested efficiency, pressure drop, rated airflow and serial number.

AirePanel HEPA filters have been designed to comply with the requirement of AS4260.1997.

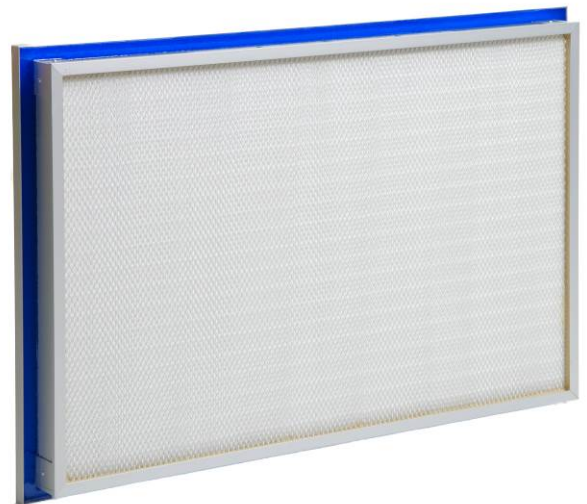
When used with correctly selected mounting frames, housings or terminal modules, AirePanel HEPA filters will easily pass AS1807.6 & AS1807.7 Final Filter Integrity test carried out by a NATA registered laboratory.

Filter Replacement

Airepure recommend replacing gel seal HEPA filters when contaminated or the loaded pressure is reached, but no longer than 5 years from manufacture date due to possible degradation of the gel. Refer to <https://www.airepure.com.au/issues-affecting-gel-seal-hepa-filters/>



AirePanel



AirePanel CS

Options

- Various Frame Materials Available, Timber, Aluminium, Stainless Steel
- Upstream & Downstream Faceguard Screens
- Non-standard Sizes Readily Available
- Rating U15 to EN 1822:2009
- Available with variable sized media packs up to 300mm in depth

AIREPURE AIREPANEL HEPA FILTER DIMENSIONS & CAPACITIES

AirePanel Conventional Gasket Seal Mounting, Face Guards Both Sides

Model	Rated Airflow Volume (l/sec)	Pressure Drop (Pascals)		Actual External Dimensions (mm)			Rating to EN 1822:2009
		Initial	Final	Width	Height	Depth	
AP4930808DB	20	125	450	203	203	70	H14
AP4931212DB	47	125	450	305	305	70	H14
AP4931224DB	94	125	450	610	305	70	H14
AP4932424DB	190	125	450	610	610	70	H14
AP4932430DB	235	125	450	762	610	70	H14
AP4932436DB	282	125	450	914	610	70	H14
AP4932448DB	375	125	450	1219	610	70	H14
AP4932460DB	470	125	450	1525	610	70	H14
AP4933036DB	352	125	450	914	762	70	H14
AP4933048DB	470	125	450	1219	762	70	H14
AP4933060DB	588	125	450	1525	762	70	H14

AirePanel Conventional Gasket Seal Mounting

Model	Rated Airflow Volume (l/sec)	Pressure Drop (Pascals)		Actual External Dimensions (mm)			Rating to EN 1822:2009
		Initial	Final	Width	Height	Depth	
AP49312126	47	125	450	305	305	149	H14
AP49312246	94	125	450	610	305	149	H14
AP49324246	190	125	450	610	610	149	H14
AP49324306	235	125	450	762	610	149	H14
AP49324366	282	125	450	914	610	149	H14
AP49324486	375	125	450	1219	610	149	H14
AP49324606	470	125	450	1525	610	149	H14

AirePanel CS Gel Seal HEPA Filters, Face Guards Both Sides

Model	Actual Size WxHxD (mm)	Capacity (l/sec)	Minipleat Pack Depth (mm)	Pressure Drop (Pascals)		Rating to EN 1822:2009
				Initial	Final	
AP304150	508 x 552 x 75	130	50	153	450	H14
AP304134	508 x 552 x 120		100	103	450	H14
AP306250	508 x 552 x 75		50	185	450	U15
AP306234	508 x 552 x 120		100	118	450	U15
AP304890	552 x 813 x 75	220	50	153	450	H14
AP600809	552 x 813 x 120		100	103	450	H14
AP306194	552 x 813 x 75		50	185	450	U15
AP306909	552 x 813 x 120		100	118	450	U15
AP304094	552 x 1118 x 75	310	50	153	450	H14
AP304046	552 x 1118 x 120		100	103	450	H14
AP306194	552 x 1118 x 75		50	185	450	U15
AP306146	552 x 1118 x 120		100	118	450	U15

Note: Maximum operating temperature 90° C

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The information provided in this brochure is accurate at the time of printing to the best of Airepure Australia's knowledge, however, it should not be relied upon. Circumstances differ with every installation and location therefore suitability of all Airepure products should be confirmed with a qualified Airepure Technical Representative. Rev 0419 ©Airepure Australia 2019

