

AIRECELL

Standard Capacity Gasket & Fluid Seal HEPA Filters

Description

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

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

AireCell 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 AireCell 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 AireCell HEPA filter casing is manufactured from 1.6mm galvanised steel and are constructed into a double turned flange arrangement. AireCell 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 corrugated aluminium separators to ensure uniform airflow throughout the media pack. The media pack is then potted into place by urethane sealant into the casing.

AireCell Fluid Seal HEPA filters have been designed with a 55mm "knife" edge; this is for applications where existing "Fluid" or "Gel" sealing methods are being used. Fluid seal applications help limit the possibility of air bypass sometimes associated with gasket seal applications.

Testing

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

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

Options

- 304 or 316 Stainless Steel
- Marine Plywood Casing (non ferrous applications)
- Polypropylene Separators
- Upstream & Downstream Faceguard Screens
- Non-standard Sizes Readily Available
- Rated U15 to EN 1822:2009
- Box Style Configuration



Gasket Seal HEPA Filter



"Knife" Edge Fluid Seal HEPA Filter

AIREPURE AIRCELL HEPA FILTER DIMENSIONS & CAPACITIES

Conventional Gasket Seal Mounting

Model	Rated Airflow Volume (l/sec)	Pressure Drop (Pascals)		Actual External Dimensions (mm)			Rating to EN 1822:2009	Weight (kg)
		Initial	Final	Height	Width	Depth		
AP7119302	40	250	500	203	203	149	H14	2.5
AP7119303	95	250	500	305	305	149	H14	4.0
AP7119012	170	250	500	595	290	149	H14	4.8
AP7119011	186	250	500	610	305	149	H14	5.5
AP7119404	245	250	500	495	495	149	H14	6.4
AP7119662	355	250	500	595	595	149	H14	8.2
AP7119304	375	250	500	610	610	149	H14	9.7
AP7119307	465	250	500	610	762	149	H14	11.5
AP7119308	560	250	500	610	914	149	H14	16.4
AP7119309	745	250	500	610	1219	149	H14	20.5
AP7119046	140	250	500	305	305	292	H14	6.4
AP7119632	260	250	500	595	290	292	H14	11.4
AP7119002	280	250	500	610	305	292	H14	11.8
AP7119663	540	250	500	595	595	292	H14	16.8
AP7119305	565	250	500	610	610	292	H14	17.0
AP7119306	705	250	500	610	762	292	H14	19.8
AP7119051	1130	250	500	610	1219	292	H14	35.3

Fluid Seal – 55mm Long Knife Edge “Skirt”

Model	Rated Airflow Volume (l/sec)	Pressure Drop (Pascals)		Actual External Dimensions (mm)			Rating to EN 1822:2009	Weight (kg)
		Initial	Final	Height	Width	Depth		
GS493121200X	55	250	500	290	290	210	H14	4.1
GS493112300X	120	250	500	290	590	210	H14	6.5
GS493232300X	300	250	500	590	590	210	H14	9.8
GS493233500X	460	250	500	590	890	210	H14	13.1
GS493234700X	625	250	500	590	1190	210	H14	16.2

Note:
Maximum operating temperature 90° C

Guide Specification

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| <p>1.0 General</p> <p>1.1 AireCell HEPA filters shall be extended media separator type filters as supplied by Airepure Australia.</p> <p>1.2 Sizes, capacities shall be as noted on drawings or other supporting material.</p> <p>2.0 Construction</p> <p>2.1 The media pack shall be constructed of one continuous sheet of micro fine glass fibre media.</p> <p>2.2 Pleats shall be spaced uniformly and separated by corrugated aluminium separators</p> <p>2.3 The media pack shall be potted into the frame casing with a urethane sealant.</p> <p>2.4 The frame casing shall be a double turned arrangement and constructed from 1.6mm galvanised steel</p> | <p>3.0 Performance</p> <p>3.1 The AireCell HEPA filters are rated at H14 to EN 1822:2009</p> <p>3.2 Initial resistance to airflow shall not exceed 250 Pascals at the rated capacity</p> |
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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 1015 ©Airepure Australia 2015

