



# HEPA Filters

## **Applications**

Email Air Handling HEPA filters are designed for use in such critical applications as:

- Hospital operating theatres
- Sterile goods processing
- Biological safety cabinets
- Radioactive particle barriers
- Electronics manufacture
- Precision instrument assembly

Because these filters are used in situations where human life may be at risk, filter performance is critical and only the most stringent Australian testing methods will suffice.

## **Features**

Individually tested: every filter is tested on a special rig to ensure that it complies with the rigorous performance requirements of AS 4260. Each filter has guaranteed efficiencies and resistance to airflow. The results of this testing, together with the filter code and the test airflow, are given on serialised NATA certification labels attached to the filter and its carton, providing easy and rapid identification.

Local manufacture: Australian manufacture and testing means that filters are less likely to require on-site patching.

Lower resistance to airflow: Email Air Handlings' high-performance filter paper provides a higher airflow capacity (for a lower resistance to airflow).

# Description

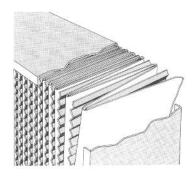
Conventional Filters: The glass-paper filtering medium is pleated into a narrow vee formation and held in place by corrugated aluminium separators inserted between the pleats. This forms the filter element which is bonded into a rigid corrosion-resistant steel frame with all joints encapsulated and sealed in urethane elastomer. special Standard HEPA frames have a closed-cell neoprene gasket on the air leaving side. Alternatively the outer frame can be supplied with extended sides for gel or fluid seal applications.

Minipleat Filters: These filters are of low-depth construction and use very close pleating of the medium, with separation of the pleats achieved by means of continuous, narrow beads of a special hot-melt compound. Typically, a minipleat filter has similar airflow/pressure drop characteristics to a conventional filter of the same face dimensions, but has only one third of the depth of the conventional filter. Their light weight and compact dimensions make them ideal for low-profile ceiling modules.

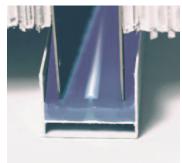


Minipleat filter





Conventional HEPA construction



'Blue-Gel' Filter sealing arrangement



HEPA within optional mounting frame assembly

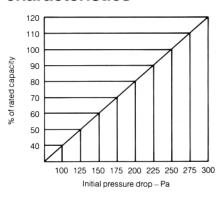
### Performance

Email Air Handling HEPA filters are individually tested on a NATA registered rig to AS 1324 and filter efficiency of 99.97% or 99.99% Hot DOP is guaranteed. Filters are also scan tested by Cold DOP to AS 1807.6. The Hot DOP method, with its consistent 0.3 micron particle test medium, provides the most stringent test of the efficiency and safety of a HEPA filter for critical installations.

#### Resistance V's Airflow

Unlike most filters, which have a square law resistance characteristic, HEPA filters have a linear characteristic i.e. if the filter is operated at half airflow capacity, the resistance to airflow is also halved.

# Initial resistance/airflow characteristics



# **Design Considerations**

- Gel seal installations are suitable for applications up to  $50^{\circ}\text{C}$  and 100% RH.
- Gasket seal installations are suitable for applications up to 120°C and 100% RH.
- All HEPA filters require adequate pre-filtration to prolong filter life. Email Air Handling HEPA filters can be operated up to 2.5 Kpa. but increasing fan energy costs usually make replacement more economical when the filter reaches a pressure drop of 500 Pa. or twice initial P.D.

# **Options**

Email Air Handling HEPA filters are available in a variety of frame and separator materials and sealant types for specialist applications. Also available are special containment housings, HEPA fan filter modules and portable negative air units.

Holding frames that provide effective clamping and sealing of filters are available for ducted applications.



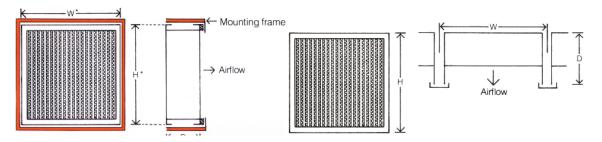
# On-site testing

Email Air Handling HEPA filters are factory-tested and certified by a NATA-Accredited laboratory.

Additional testing and certification should be carried out on site prior to use, and subsequently as follows;

- a) After filter replacement
- b) At least annually
- c) In special circumstances, e.g. if filter leakage is suspected

Email Air Handling provides comprehensive on-site maintenance, testing and certification services for HEPA filter installations, cleanrooms, safety cabinets, laminar flow workstations and fume cabinets.



Gasket seal Fluid seal

	Dood Name base		Dii		Ai-flC	:4.	In:Hint DD	10/-:	
	Part Number	Unight	Dimensions	Donth			Initial PD	Weight	
1589-7182/302   203   203   149   26   55   250   2.6     1589-7182/303   305   305   149   71   150   250   4.1     1589-7182/304   610   610   149   366   775   250   9.8     1589-7182/305   610   610   292   566   1200   250   17.1     1589-7182/306   610   762   292   708   1500   250   19.7     1589-7182/308   610   914   149   529   1120   250   13.2     1589-7182/308   610   914   149   529   1120   250   13.2     1589-7182/308   610   914   149   529   1120   250   13.2     1589-7182/309   610   1219   149   713   1510   250   16.3     1589-7182/324   762   610   149   441   935   250   14.3     1589-7182/327   762   762   149   552   1170   250   14.3     1589-7182/328   762   914   149   661   1400   250   16.5     1589-7182/329   762   1219   149   882   1870   250   20.4     1589-7112/533   300   300   210   56   120   250   4.2     1589-7112/534   300   600   210   122   260   250   6.6     1589-7112/536   300   900   210   188   400   250   9     1589-7112/542   600   900   210   462   980   250   13.2     1589-7112/543   600   600   210   300   635   250   9     1589-7112/544   600   900   210   462   980   250   13.2     1589-7452/37   610   610   305   760   1610   250   20     1589-7452/37   610   610   305   760   1610   250   20     1589-7452/41   305   305   610   70   165   350   250   41     1589-7452/41   305   305   70   83   175   250   2.7     1589-7452/414   610   762   70   418   885   250   8.8     1589-7452/417   610   1219   70   665   1405   250   10.2     1589-7452/418   762   914   70   550   1165   250   9.2     1589-7452/419   762   1219   70   665   1405   250   10.2     1589-7452/419   762   1219   70   665   1405   250   10.2     1589-7452/419   762   1219   70   665   1405   250   12.2     1589-7452/419   762   1219   70   665   1405   250   12.2     1589-7452/419   762   1219   70   665   1405   250   12.2     1589-7452/419   762   1219   70   665   1405   250   12.2     1589-7452/419   762   1219   70   665   1405   250   12.2     1589-7452/419   762   1219   70   66	Gacket Seal	neigiit	vviuui	Depui	L/S	Crivi	Pa.	ny.	
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1589-7182/304									
1589-7182/305									
1589-7182/306									
1589-7182/307									
1589-7182/308									
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1589-7182/324									
1589-7182/327									
1589-7182/328									
1589-7182/329   762   1219   149   882   1870   250   20.4     1589-7112/533   300   300   210   56   120   250   4.2     1589-7112/534   300   600   210   122   260   250   6.6     1589-7112/536   300   900   210   188   400   250   9     1589-7112/540   600   600   210   300   635   250   9.9     1589-7112/542   600   900   210   462   980   250   13.2     1589-7112/543   600   1200   210   624   1320   250   16.3     1896   7452/37   610   610   305   760   1610   250   20     1589-7452/37   610   610   305   380   805   250   11     1589-7452/37   610   610   305   380   805   250   11     1589-7452/411   305   610   305   380   805   250   11     1589-7452/412   305   610   70   165   350   250   4     1589-7452/413   610   610   70   335   710   250   7.1     1589-7452/414   610   762   70   418   885   250   8.8     1589-7452/416   610   914   70   510   1080   250   10.2     1589-7452/418   762   914   70   550   1405   250   32.2     1589-7452/418   762   914   70   550   1405   250   32.2     1589-7452/419   762   1219   70   665   1405   250   32.2     1589-7452/416   610   70   335   710   250   7.1     1589-7452/418   762   914   70   550   1405   250   32.2     1589-7452/419   762   219   70   665   350   250   4     1589-7452/419   762   219   70   665   350   250   4     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   70   335   710   250   7.1     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   418   885   250   8.8     1589-7452/416   610   762   70   4									
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1589-7452/411         305         305         70         83         175         250         2.7           1589-7452/412         305         610         70         165         350         250         4           1589-7452/413         610         610         70         335         710         250         7.1           1589-7452/414         610         762         70         418         885         250         8.8           1589-7452/416         610         914         70         510         1080         250         10.2           1589-7452/417         610         1219         70         670         1420         250         13.3           1589-7452/418         762         914         70         550         1165         250         9.2           1589-7452/419         762         1219         70         665         1405         250         12.2           Mini-pleat - Gasket Seal - Face guard both sides.         1589-7452/411G2         305         305         70         83         175         250         2.7           1589-7452/41G2         305         610         70         165         350         250         4									
1589-7452/412   305   610   70   165   350   250   4     1589-7452/413   610   610   70   335   710   250   7.1     1589-7452/414   610   762   70   418   885   250   8.8     1589-7452/416   610   914   70   510   1080   250   10.2     1589-7452/417   610   1219   70   670   1420   250   13.3     1589-7452/418   762   914   70   550   1165   250   9.2     1589-7452/419   762   1219   70   665   1405   250   12.2     Mini-pleat - Gasket Seal - Face guard both sides.     1589-7452/4102   305   305   70   83   175   250   2.7     1589-7452/413G2   610   610   70   165   350   250   4     1589-7452/413G2   610   610   70   335   710   250   7.1     1589-7452/414G2   610   762   70   418   885   250   8.8     1589-7452/416G2   610   914   70   510   1080   250   10.2     1589-7452/417G2   610   1219   70   670   1420   250   13.3     1589-7452/419G2   762   914   70   550   1165   250   9.2     1589-7452/419G2   762   914   70   550   1165   250   9.2     1589-7452/419G2   762   1219   70   665   1405   250   12.2     Mini-pleat - Fluid Seal   1589-7452/522   600   600   130   315   665   250   7.3     1589-7452/523   600   900   130   475   1005   250   10.4			305	70	83	175	250	27	
1589-7452/413									
1589-7452/414       610       762       70       418       885       250       8.8         1589-7452/416       610       914       70       510       1080       250       10.2         1589-7452/417       610       1219       70       670       1420       250       13.3         1589-7452/418       762       914       70       550       1165       250       9.2         1589-7452/419       762       1219       70       665       1405       250       12.2         Mini-pleat - Gasket Seal - Face guard both sides.         1589-7452/411G2       305       305       70       83       175       250       2.7         1589-7452/412G2       305       610       70       165       350       250       4         1589-7452/413G2       610       610       70       335       710       250       7.1         1589-7452/414G2       610       762       70       418       885       250       8.8         1589-7452/41GG2       610       1219       70       670       1420       250       13.3         1589-7452/41GG2       762       914       70       550									
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1589-7452/412G2     305     610     70     165     350     250     4       1589-7452/413G2     610     610     70     335     710     250     7.1       1589-7452/414G2     610     762     70     418     885     250     8.8       1589-7452/416G2     610     914     70     510     1080     250     10.2       1589-7452/417G2     610     1219     70     670     1420     250     13.3       1589-7452/418G2     762     914     70     550     1165     250     9.2       1589-7452/419G2     762     1219     70     665     1405     250     12.2       Mini-pleat - Fluid Seal       1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4	•		_		83	175	250	2.7	
1589-7452/413G2     610     610     70     335     710     250     7.1       1589-7452/414G2     610     762     70     418     885     250     8.8       1589-7452/416G2     610     914     70     510     1080     250     10.2       1589-7452/417G2     610     1219     70     670     1420     250     13.3       1589-7452/418G2     762     914     70     550     1165     250     9.2       1589-7452/419G2     762     1219     70     665     1405     250     12.2       Mini-pleat - Fluid Seal       1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4									
1589-7452/414G2     610     762     70     418     885     250     8.8       1589-7452/416G2     610     914     70     510     1080     250     10.2       1589-7452/417G2     610     1219     70     670     1420     250     13.3       1589-7452/418G2     762     914     70     550     1165     250     9.2       1589-7452/419G2     762     1219     70     665     1405     250     12.2       Mini-pleat - Fluid Seal       1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4								7.1	
1589-7452/416G2     610     914     70     510     1080     250     10.2       1589-7452/417G2     610     1219     70     670     1420     250     13.3       1589-7452/418G2     762     914     70     550     1165     250     9.2       1589-7452/419G2     762     1219     70     665     1405     250     12.2       Mini-pleat - Fluid Seal       1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4	1589-7452/414G2								
1589-7452/417G2     610     1219     70     670     1420     250     13.3       1589-7452/418G2     762     914     70     550     1165     250     9.2       1589-7452/419G2     762     1219     70     665     1405     250     12.2       Mini-pleat - Fluid Seal       1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4									
1589-7452/418G2     762     914     70     550     1165     250     9.2       1589-7452/419G2     762     1219     70     665     1405     250     12.2       Mini-pleat - Fluid Seal       1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4	1589-7452/417G2								
1589-7452/419G2     762     1219     70     665     1405     250     12.2       Mini-pleat - Fluid Seal       1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4	1589-7452/418G2								
Mini-pleat - Fluid Seal       1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4	1589-7452/419G2								
1589-7452/522     600     600     130     315     665     250     7.3       1589-7452/523     600     900     130     475     1005     250     10.4				-					
1589-7452/523 600 900 130 475 1005 250 10.4	-		600	130	315	665	250	7.3	
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	1589-7452/524			130	645	1365	250	12.5	

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