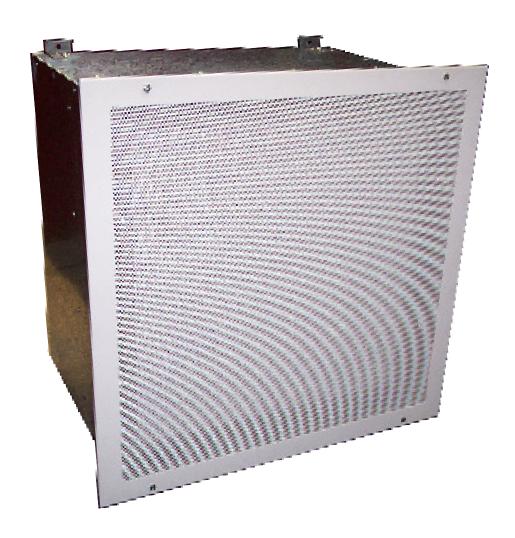


HEPA Filter Module

For critical air environments





Applications

IFC HEPA filter modules are designed for use in critical applications where product or personnel protection requires an environment free of airborne contaminants.

- Operating theatres
- Clean room facilities
- Pharmaceutical manufacture
- Electronics industry
- Food processing
- Optics

Description

The HEPA filter module is fully manufactured in Australia to conform with the performance requirements of AS 1386. It comprises a HEPA filter in a galvabond housing with an attractively styled fascia and the option of an integral fan/blower.

Construction

Housing: Constructed from quality galvabond.

Fascia: Filter guard is satin polished 304#

stainless steel or white painted finish.

Fan: A variable speed direct drive blower that enables airflow adjustment as required.

Filter: HEPA type, strictly conforming with AS

4260.

Power: Provided via a single phase 240 V,

10 amp 3 pin plug.

Filter seals: Modules can be supplied with either

gasket or fluid seal HEPA filters.

Performance

IFC HEPA filters are individually tested on a NATA accredited Hot DOP test rig to AS 4260 and filter efficiency is always guaranteed. To pass inspection each filter must achieve an efficiency of 99.99%.

Modules are individually tested to conform with AS 1386 - sound level not exceeding 62dBA on a free field basis

Standard specification

HEPA filter modules shall conform with AS 1386. A NATA accredited laboratory shall test modules and the manufacturer shall provide a certificate showing test results for the purpose of establishing full compliance with AS 1386. Individual HEPA filters shall be tested to AS 4260.

Installation

HEPA filter modules must be supported independently from the ceiling structure. The module's power supply must be interlocked with the air conditioning unit in such a way as to start the module fan before starting the air conditioner fan.





Construction

HOUSING	Constructed from quality galvabond.
FASCIA	Filter guard is satin polished 304# stainless steel or white painted finish.
FAN	A variable speed direct drive blower that enables airflow adjustment as required.
FILTER	HEPA type, strictly conforming with AS 4260.
POWER	Provided via a single phase 240 V, 10 amp 3 pin plug.
FILTER SEALS	Modules can be supplied with either gasket or fluid seal HEPA filters.

Maintenance and Service

To ensure conformity with AS 1386, HEPA filter modules should be inspected and tested on site:

- before use
- on at least an annual basis
- after modification
- after relocation
- when HEPA filter is renewed.

On Site Testing

All HEPA filters shall be tested to AS 1807.6 or 1807.7 by AES Environmental or other NATA accredited laboratory.



AES Environmental maintains an ISO 9001:2015 quality management system to ensure process and product conformance.

Gel Seal Filter Frame Sealant

Gel-Seal is a unique, ice-blue silicone gel specifically designed to create and preserve an airtight seal between high-efficiency particulate air filters and their holding frames or housings.

The gel is factory-installed and factory-cured in the perimeter channels channels of filters designed for fluid seal applications. The cured gel has the self-healing qualities of a liquid while retaining the stability and non-flow characteristics of a solid.



'BlueGel' Filter sealing arrangement



Gel Seal Filter Frame Sealant (Cont.)

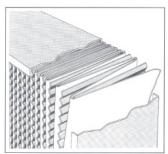
These properties are maintained at both high and low temperature extremes and are not lost even when aged continuously at high temperatures. Gel-Seal exhibits excellent bonding characteristics to many materials, it is also highly self-adhesive, allowing knife edges and filter skirts to be cleanly withdrawn. The hydrophobic nature of the gel makes it ideally suited for applications that require long-term sealing against moisture and other atmospheric contaminates.

HEPA Media Construction

The glass-paper filtering medium is pleated into a narrow vee formation and held in place by corrugated aluminum 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 a special urethane elastomer.

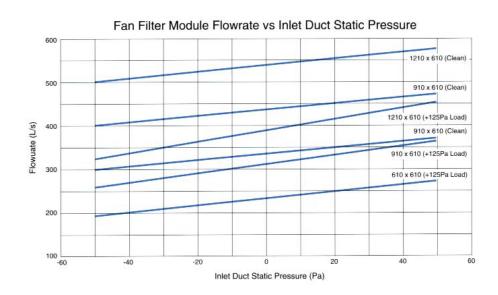


Channel Ceil HEPA



Conventional HEPA construction

Performance Data

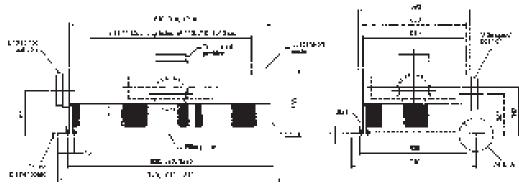




Low Profile Fluid Seal Fanless Filter Module

(Filter accessible from room)





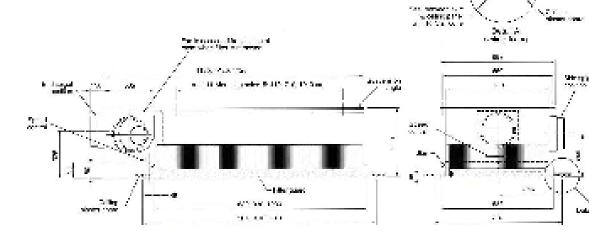
Endineering data

	* lu plu u i	·	1.84	K.	r.	114 - 2.			** M	Incides.	.561
	i stancjumoujne)	Сариску 340 (346)	07 P C C C 4		ES III.	135 3 2 C	Taket	Suga. Tarklar	i Sugge. Palagrani™		ay) - marrimen
√T	900	1.9	9Up 907	- 2,60	010	970	G	8.00	300	213	1581 11091
117	27.7	279	arp. W	Fajiko	010	910	8.0	3.00	2.77	00	1981 11992
<i>EU</i>	2000	TO	appoint	File	IO C	610	æ::	30.5	300	7.5	1981 1 BOS
317	.000t	1***	_ Sugnady	Title	6.0	410	.#1.T	Frd	800	40	1985 1 304
117	276	2.75	Talipools;	<u> </u>	. A 0.	_ 616	.===	Fed	5.50	60	1987 17003
747	250	2.424	Talipools,	16-	12 0	<u> 715 </u>		Frd	270	7.	1007.12(6)
717	:161	1775	agroty	7 (de)	6.0	213	.7**	. — ₁₀	270	40	1707-1276-2
411	275	1,576	rayody	ukt	2.0	213	.007			539	1007-127663
=1:	250	270	pupoly	Ukc	1200	515	000	7.55	227	77	Tonto (Poses)
84.	300	175	oupuly:	100	R10	310	- 211 -	54.5	511#NUXXXX	- 11	100/04/10 04:3
443	246	c. E	Suput:	7 690	900	510	900	i i gueri	500 - 0000	- 504	135/04/15/94/14
343	200	223	Sup At	Figure	1270	510	920	9	-500 - Na/2001	- "?_ '''	1351-11134 b
811	900	175	Sup alt	Picio	CTU	:10	600	E-3	1000 - 000-000	- 29	135 - 1-139 ¹ 5
117	276	77.2	多食物	Picjo	900	:10	00%	E 4	500 - 0000	- 90	155 (41, 13917)
547	250	777	70 p. Wy	7 . 10	1210	(10)	Ø0x	E:4	_200 ₩ (2007)*	:	1551 1 1591 5
.147	5500		Papely :	1 lb	610	(10	000	T_{-})	_aud#/00a.a.s		1051 1105922
411	275	777	i prek	1 K	ain	740	907	Thy	313400100	- 00	109) 110 9 se
540	250	:	cupatr	: h:	1740)	0.10	500	1.75	100mm/000	77	1007-1207-04

and Street Coper to Action Late, Code (1924) and the late of the second code of the product of t

Low Profile Fluid Seal Fan Filter Module

(Filter, fan and controls accessible from room)

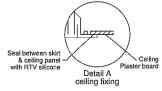


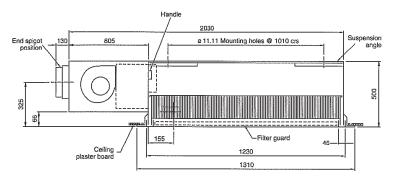
Engineering data

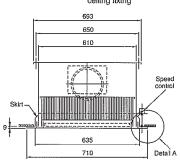
Clean Appenity Use	+ JCB(%) (calcoldfs), (a)	(14.5 and 4 and 15.5	Hess effection	li leji seefi	Aka Length	ing size Walls	Onio Haggis	Subject Southern	ēgij, N disterant™	ra, tolicid Augy o Jago	PAT SMC 2AT
.940	(2/4)	128	rojeky	100	810	810	(500)	8,5%	8	08	1932 1777
445	(1.6)	272	engosta.	7100	900	6010	539	30.5	800	87	2024-14-25
.543	28.60	150837	Seguida	100	1200	0010	530	30.5	800	00	1007110040
154.5	340	1.5	Supple	700	600	or 0	0.00	End.	800	(60)	2777 177-14
44:	80.50	232	Supple:	7.66	970	0.0	5.00	Crid	572	07	14772/127445
545	890	3.73	Supply	F 16.	1210	0.0	200	Sed		100	602 42700
84.	340	175	Ex tile:	Fig. (2)	6:10	6.0	500	Ond	377	(61.	10000160006
445	800	872	(Exc. 20.50)	5041	0.0	6.0	500	3.640	757	115	- 507×1704-5
640	2000	375	Services.	5065	9.6	6.0	5500	264	77.1	900	1657/1704-3

Acoustic Fluid Seal Fan Filter Module

(Filter, fan and controls accessible from room)





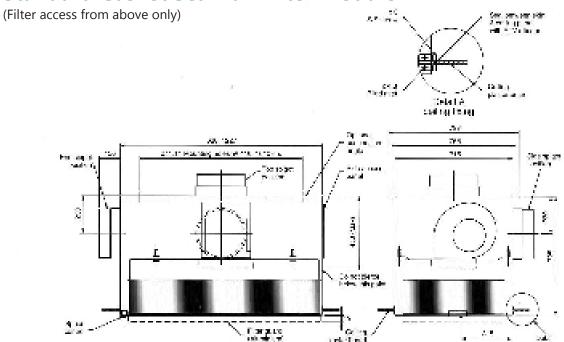


Engineering data

Capacity	Capacity#	Flow	Filter	Nominal size (mm)		Spigot	Spigot	Installed	Part	
(L/s)	(AS1386)	direction	seal*	Length	Width	Height	location	dia.(mm)**	weight (kg)	number
290	290	Supply	Fluid	1210	610	500	End	300	110	1687-1708/1
290	290	Exhaust	Fluid	1210	610	500	End	300	110	1687-1708/2

AS1386 - Capacity @ 0.47m/s face velocity and is restricted to limit noise levels to 50dBA at 1 metre free field * Standard petroleum jelly or optional Blu Jel sealing medium. ** Spigots are 130mm long. Ceiling opening sizes are 685x685, 985x685, 1285x685.

Standard Gasket Seal Fan Filter Module



Enumeering data.

\$4.526	Сарос да	2.00	Filtra	Non-male action of			8,044,0	392,007	had a lest	1500
Land of the land	(41, TS88)	anced or	3665	Service.	(78; i)	THURST	service.	430 (cm)(***)	weight days	in unities:
245	250	Marupaly	Liadori	16.80	T(S)	2500	logo.	700	G	007 730,6
045	28-cs	59 (Carly	Finder	7594	716	25.5	2006	1100	6.	007/ 535/6
345	244	المنتا الحد	Gardeni :	3091	-27.5	23%	Side	78.77	60	1607-1530,00
585	475	Suiciply	Cambril	1227	0.8	7.72	1991	300	30	10077-1079/7
250	479	Supply	Cátrole: 1	1227	11.5	165	550 e	300	90	1607- ATEM
0.45	346	Supply	Cardet	8330	715	120	2103	1863	61	1647-157054
580	4200	Supply	Gordon	1227	715,	600	200	1800	20	1887 E.C.2.10
945	246	30.00	Gloskot	(330)	734	765	ECh coda	86.70	K*	1688ATEXES
579	476	30 : of 2	Clock of	1823	3100	725	Eddi sindo	26.7	91	1687-162012
0.55	456	Residen	Glacket	1227	710	100	Rome		92	1687 Tezul13

##51625 - Cabbilly & C Data box hake g ** Corpor at 100mm org.

- Typing a fireful to 60 days to be a 100 days.

Filter Modules



Nano-VTM F6, F7, F8 & F9 Rating Sizes: 610x610 & 610x305

Depth: 300

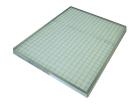
Xref: V-Cell, Compact Vee



Nano-P™ F6, F7, F8 & F9 Rating

Sizes: 610x610 & 610x305 **Depth:** 25, 50 & 100.

Xref: P-Pleat

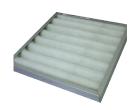


DY Filter™

F4 & F5 Rating Sizes: 610x610, 610x305,

305x508, 508x508, 406x508, 305x508,508x508, 406x508,

Depth: 25 & 50.



V-Form™

F4 & F5 Rating

Sizes: 610x610, 610x305, 406x635, 508x635 & custom. 406x635, 508x635 & custom.

> **Depth:** 50 & 100. Xref: Vee-form



Intervee™

95% Rating

Sizes: 610x610&610x305

Depth: 300



Duovee™

F4 & F5 Rating

Sizes: 610x610 & 610x305.

Depth: 400 & 600.

Xref: EX, VA320 & VA340.

Twin Cell



 $\textbf{Fourpeak}^{\text{\tiny{TM}}}$

F4 & F5 Ratings Sizes: 610x610 & 610x305.

Depth: 346 Xref: 4P



Multipeak™

F4 & F5 Rating

Sizes: 610x610 & 610x305.

Depth: 570

Xref: TPAC & Tricell.



Interfold™

F4 Rating

Sizes: 610x610, 610x305, 305x508, 508x508, 406x508, 406x635, 508x635 & custom. **Depth:** 25, 50 & 100.

Xref: G-Pleat



Pyracube™

F4 & F5 Ratings

Sizes: 610x610 & 610x305.

Depth: 623

Xref: EEX & ES Series.



Pyracone™

F4 & F5 Rating

Sizes: 610x610 &610x305.

Depth: 660

Xref: EX.



Inter-Firm™

F6, F7, F8 & F9 Rating **Sizes:** 610x610 & 610x305.

Depth: 150 & 300.



Interpocket™

F5, F6, F7, F8 & F9 Ratings **Sizes:** 610x610 & 610x305. **Depth:** 360, 560 & 720. **Xref:** Multi-wedge & Univee.



HEPA /Absolute™

99.999% & 99.995% Rating Sizes: Various standard sizes & custom available on request.

Depth: 149 & 292.

© 2021 IFC | Bulletin No. Bulletin No. 23F.02.17 AES121 REV4

In keeping with our policy of continuing product improvement, we reserve the right to alter specifications without notice.





Unit 5, Arcot Court, Cramlington, Northumberland, NE23 1BB **Ph** 01670 712 113 **E** sales@IFC .com www.internationalfilter.co.uk

