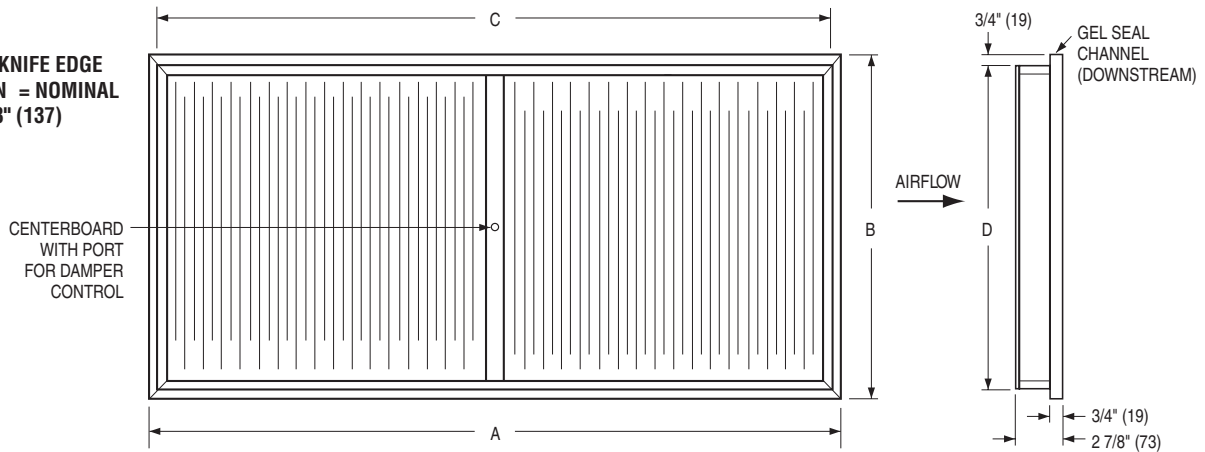




HEPA FILTERS FOR HOSPITAL/CLEANROOM DIFFUSERS IMPERIAL MODULES MODEL: 92GSF-HE

DIFFUSER KNIFE EDGE
DIMENSION = NOMINAL
SIZE - 5 3/8" (137)



DIMENSIONAL DATA

Ceiling Module/ Nominal Diffuser/ Filter Size	A x B	C x D	Net Media Face Area Sq. ft. (m ²)	Recommended Max. Airflow cfm (l/s)	Max. Airflow cfm (l/s)
48 x 12 (1219 x 305)	43 1/2 x 7 1/2 (1105 x 191)	42 x 6 (1067 x 152)	1.93 (0.179)	193 (91)	290 (137)
60 x 12 (1524 x 305)	55 1/2 x 7 1/2 (1410 x 191)	54 x 6 (1372 x 152)	2.50 (0.232)	250 (118)	375 (177)
24 x 24 (610 x 610)	19 1/2 x 19 1/2 (495 x 495)	18 x 18 (457 x 457)	1.96 (0.182)	196 (92)	294 (139)
36 x 24 (914 x 610)	31 1/2 x 19 1/2 (800 x 495)	30 x 18 (762 x 457)	3.37 (0.313)	337 (159)	506 (239)
48 x 24 (1219 x 610)	43 1/2 x 19 1/2 (1105 x 495)	42 x 18 (1067 x 457)	4.77 (0.443)	477 (225)	716 (338)
60 x 24 (1524 x 610)	55 1/2 x 19 1/2 (1410 x 495)	54 x 18 (1372 x 457)	6.17 (0.573)	617 (291)	926 (437)

PRESSURE DROP VALUES (in. w.g.) FOR UNUSED FILTER

Module Size	CFM	100	140	180	220	260	290
48 x 12 (1219 x 305)	CFM	100	140	180	220	260	290
	ΔPs	0.15	0.28	0.47	0.70	0.98	1.22
60 x 12 (1524 x 305)	CFM	125	175	225	275	325	375
	ΔPs	0.14	0.26	0.44	0.65	0.91	1.22
24 x 24 (610 x 610)	CFM	100	140	180	220	260	295
	ΔPs	0.14	0.28	0.46	0.68	0.95	1.22
36 x 24 (914 x 610)	CFM	150	220	290	360	430	500
	ΔPs	0.11	0.23	0.40	0.62	0.88	1.19
48 x 24 (1219 x 610)	CFM	200	300	400	500	600	715
	ΔPs	0.09	0.21	0.38	0.59	0.85	1.21
60 x 24 (1524 x 610)	CFM	300	425	550	675	800	925
	ΔPs	0.13	0.26	0.43	0.65	0.91	1.21

FILTER SPECIFICATIONS:

- Nailor HEPA filters are designed specifically to fit Nailor 92LFDAL, 92LFDAL, 92LFDAL, 92LFDAL-SS, 92RPDF-1SS and 92RPDF-2SS diffusers.
- Filter efficiency is 99.99% on 0.3 micron particles per standard: IEST-RP-CC001.5 (Institute of Environmental Science & Technology).
- The filter resistances to air flow will be a maximum of 0.54" w.g. (135 Pa.) at 100 fpm. (0.51 m/s). Refer to chart for addition pressure drop values.
- Filter is PAO scan tested for leaks at an air flow of 100 fpm (0.51 m/s).
- Frame material is extruded anodized aluminum.
- Filter has a downstream gel seal to mate with diffuser HEPA knife edge. Gel seal material is urethane (Blue).
- Filter media is a 2" (51) deep separatorless media pack.
- Filter is constructed of fire-rated material per standard: UL-900 Class 2.
- Filter has a centerboard with removable test port for filter pressure drop measurement, damper adjustment or leakage testing. Cadmium plated screw (included with filter).
- The filter maximum operating temperature is 160°F (71°C) and the maximum relative humidity (R.H.) is 100%.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

9 - 9 - 10

9200

6 - 22 - 10

92HEPA