

FILTRATION GROUP

SENTINEL FAN POWERED UNIT



- Low filter pressure drop combined with the unique unit design reduces energy consumption
- Low profile design allows for installations with minimal overhead space
- Low operating noise levels
- UL Listed (120 V, 240 V, 277V)
- Walkable plenum
- Tested to meet latest IEST Recommended Practices



DESCRIPTION

The Aerostar Sentinel Fan Filter Unit is designed for optimum performance and energy savings. The unit operates at only 170 watts, with a low noise level of 49 dBA and a low profile of less than 13". Available in efficiencies 99.99% at 0.3 μm , 99.9995% at 0.12 μm and sizes 2x4, 2x3.5, 2x3 and 2x2.

The Sentinel Fan has many options such as:

- Solid State Speed Control
- Room-Side Replaceable unit available
- Airflow Indicator Light, allows external monitoring of unit operation
- Collars available for direct connection to air conditioning supply
- Unit available painted or in stainless steel

- Power cord provides plug-in connection for non-permanent applications
- Test port for aerosol challenge when testing the filters.

BENEFITS

- Three-speed switch featuring low, medium and high setting standard on all 2 ft x 4 ft units
- Solid State Speed Control standard on all other sizes
- Each unit has a pre-filter
- 0.55" w.g. external static capability at 90 ft/min with HEPA filter.

APPLICATIONS

The Sentinel is designed to optimize performance in filtration applications for the pharmaceutical, medical, semiconductor, microelectronic, biotechnology industry, bio-safety cabinets and for surgical suites.

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PERFORMANCE DATA

SENTINEL FAN HEPA Model 1/5 Hp Motor	HIGH SPEED		MEDIUM SPEED		LOW SPEED		90 ft/min (0.45 m/s)		70 ft/min (0.35 m/s)		AVERAGE AIRFLOW ft ³ /min (m ³ /hr)	UNIT WEIGHT lbs (kg)
	120V, 220V, 277V 60/50 Hz		120V, 220V, 277V 60/50 Hz		120V, 220V, 277V 60/50 Hz		120V, 220V, 277V 60/50 Hz		120V, 220V, 277V 60/50 Hz			
	Airflow ft/min (m/s)	Watts 60 Hz (50 Hz)	Airflow ft/min (m/s)	Watts 60 Hz (50 Hz)	Airflow ft/min (m/s)	Watts 60 Hz (50 Hz)	Airflow ft/min (m/s)	Watts 60 Hz (50 Hz)	Airflow ft/min (m/s)	Watts 60 Hz (50 Hz)		
STANDARD (STD) MODEL												
2 ft x 4 ft	140	317	120	244	100	170	90	160	70	140	644	65
600 mm x 1,210 mm	(0.71)	(256)	(0.61)	(186)	(0.51)	(145)	(0.45)	(145)	(0.35)	(128)	(1,095)	(29)
2 ft x 3.5 ft	149	298	125	244	111	175	90	160	70	140	560	63
600 mm x 1,058 mm	(0.75)	(258)	(0.63)	(186)	(0.56)	(139)	(0.45)	(151)	(0.35)	(122)	(952)	(29)
2 ft x 3 ft	188	294					90	140	70	120	477	52
600 mm x 905 mm	(0.95)	(248)	N/A				(0.45)	(113)	(0.35)	(94)	(811)	(24)
2 ft x 2 ft	260	286					90	72		NOT	310	41
600 mm x 600 mm	(1.30)	(224)	N/A				(0.45)	(67)		ACHIEVABLE	(527)	(19)
ROOM-SIDE REPLACEABLE (RSR) MODEL												
2 ft x 4 ft	150	297	130	200	100	144	90	160	70	140	500	71
600 mm x 1,210 mm	(0.76)	(247)	(0.66)	(180)	(0.51)	(136)	(0.45)	(160)	(0.35)	(131)	(850)	(32)
2 ft x 3.5 ft	142	280	118	209	99	167	90	160	70	140	430	68
600 mm x 1,058 mm	(0.71)	(247)	(0.59)	(182)	(0.50)	(137)	(0.45)	(154)	(0.35)	(123)	(731)	(31)
2 ft x 3 ft	164	268					90	140	70	120	360	54
600 mm x 905 mm	(0.82)	(238)	N/A				(0.45)	(134)	(0.35)	(114)	(612)	(24)
2 ft x 2 ft	253	230					90	98		NOT	220	44
600 mm x 600 mm	(1.27)	(213)	N/A				(0.45)	(88)		ACHIEVABLE	(374)	(20)

* Full-Load Amp 120V / 60Hz / 1 Ph=3.0; 220V / 50/60Hz / 1 Ph=1.5; 277V / 60Hz / 1 Ph=1.2

Custom size units available.

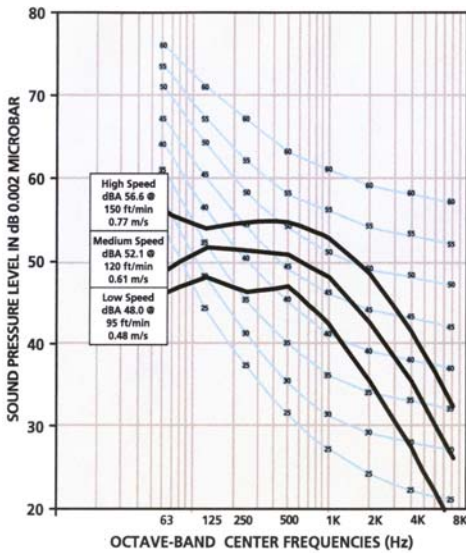
SENTINEL FAN-SOUND CURVE

2 ft x 4 ft (600 mm x 1,120 mm)

STANDARD HEPA-60 Hz

HIGH, MEDIUM AND LOW SPEED DATA

Sound Measured at 30 in (762 mm) from Filter Face



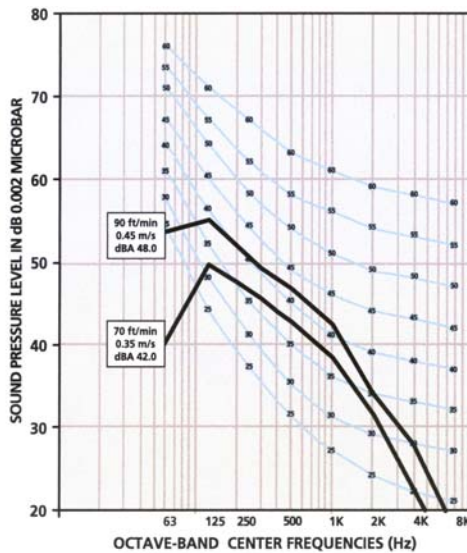
SENTINEL FAN-SOUND CURVE

2 ft x 4 ft (600 mm x 1,120 mm)

STANDARD HEPA-60 Hz

90 AND 70 FPM DATA

Sound Measured at 30 in (762 mm) from Filter Face

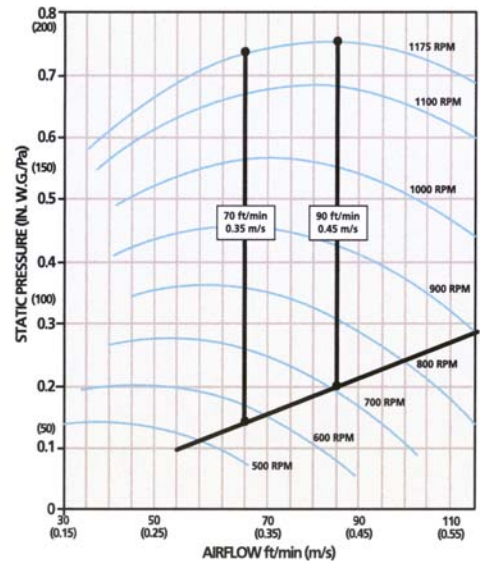


SENTINEL FAN-FAN CURVE

2 ft x 4 ft (600 mm x 1,120 mm)

STANDARD HEPA-60 Hz

Airflow Measured with Velgrid with 6 in (152 mm) Standoff and Eight Readings Across Filter Face



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