Performance Data

Model 92RPDF-2SS • 180° Pattern

With HEPA Filter • 99.99% Minimum Removal Efficiency on 0.30 Micrometer Particle Size

Imperial Units

24" x 24" or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
100	.14	.14	–	0.5	0.5	1.0	0.5	1.0	1.5
150	.32	.31	–	0.5	1.0	1.0	1.0	1.0	2.0
200*	.57	.55	16	0.5	1.0	1.5	1.5	2.0	3.0
250	.89	.86	19	1.0	1.5	2.0	2.0	2.5	3.5
295**	1.24	1.19	22	1.0	1.5	2.0	2.5	3.0	4.0

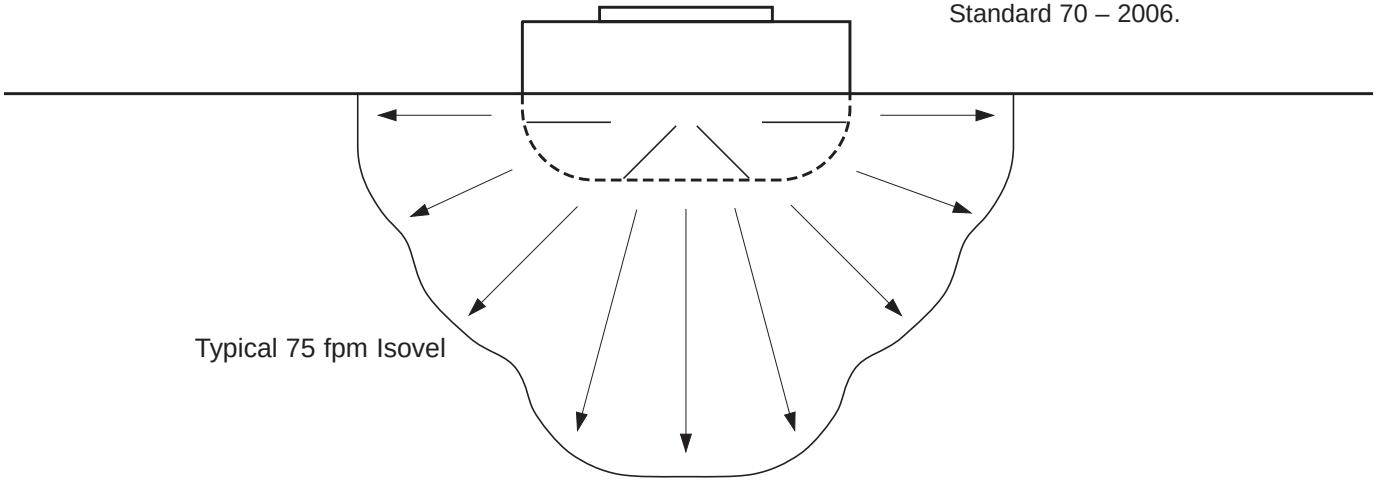
48" x 24" or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow CFM	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
300	.22	.22	–	0.5	0.5	1.0	0.5	1.0	1.5
400	.40	.38	–	0.5	1.0	1.5	0.5	1.0	2.0
500*	.62	.60	19	1.0	1.0	1.5	1.0	1.5	2.0
600	.90	.86	23	1.0	1.5	2.0	1.5	2.0	2.5
715**	1.27	1.22	28	1.5	2.0	2.5	2.0	2.5	3.0

CFM - cubic feet per minute
FPM - feet per minute velocity
Pt - total pressure - inches w.g.
Ps - static pressure - inches w.g.
T - throw in feet
NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Performance Notes:

1. The radial flow pattern of the **92RPDF-2SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).
4. * Recommended maximum airflow is based on 100 fpm (0.51 m/s) velocity per square foot of filter media face area.
** Maximum airflow shown is based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area. Exceeding these airflows may result in reduced filter efficiencies.
Refer to the engineering section for more details.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.



Typical 75 fpm Isovel

Performance Data

Model 92RPDF-2SS • 180° Pattern

With HEPA Filter • 99.99% Minimum Removal Efficiency on 0.30 Micrometer Particle Size

Metric Units

610 mm x 610 mm or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
47	35	35	–	0.2	0.2	0.3	0.2	0.3	0.5
71	80	77	–	0.2	0.3	0.3	0.3	0.3	0.6
94 *	142	137	16	0.2	0.3	0.5	0.5	0.6	0.9
118	221	214	19	0.3	0.5	0.6	0.6	0.8	1.1
139**	308	296	22	0.3	0.5	0.6	0.8	0.9	1.2

1219 mm x 610 mm or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet • ΔT – 10°F (5.5°C)

Airflow L/S	Pt	Ps	NC	T Horizontal Throw @			T Vertical Throw @		
				0.51 M/S	0.38 M/S	0.25 M/S	0.51 M/S	0.38 M/S	0.25 M/S
142	55	55	–	0.2	0.2	0.3	0.2	0.3	0.5
189	99	94	–	0.2	0.3	0.5	0.2	0.3	0.6
236*	154	149	19	0.3	0.3	0.5	0.3	0.5	0.6
283	224	214	23	0.3	0.5	0.6	0.5	0.6	0.8
337**	316	303	28	0.5	0.6	0.8	0.6	0.8	0.9

L/S - litres per second
M/S - meters per second velocity
Pt - total pressure - Pa
Ps - static pressure - Pa
T - throw in meters
NC - Noise Criteria (values) based on 10 dB room absorption, re 10^{-12} watts.

Performance Notes:

1. The radial flow pattern of the **92RPDF-2SS** is unlike conventional air distribution devices. The data presented above describes isovels by average terminal velocity in both horizontal and vertical directions.
2. ΔT is the temperature difference between supply and room air. Testing is based on 10°F (5.5°C) cooling.
3. Performance data is for diffusers with clean filters. Filters may be operated up to a final resistance of 2" w.g. (500 Pa).
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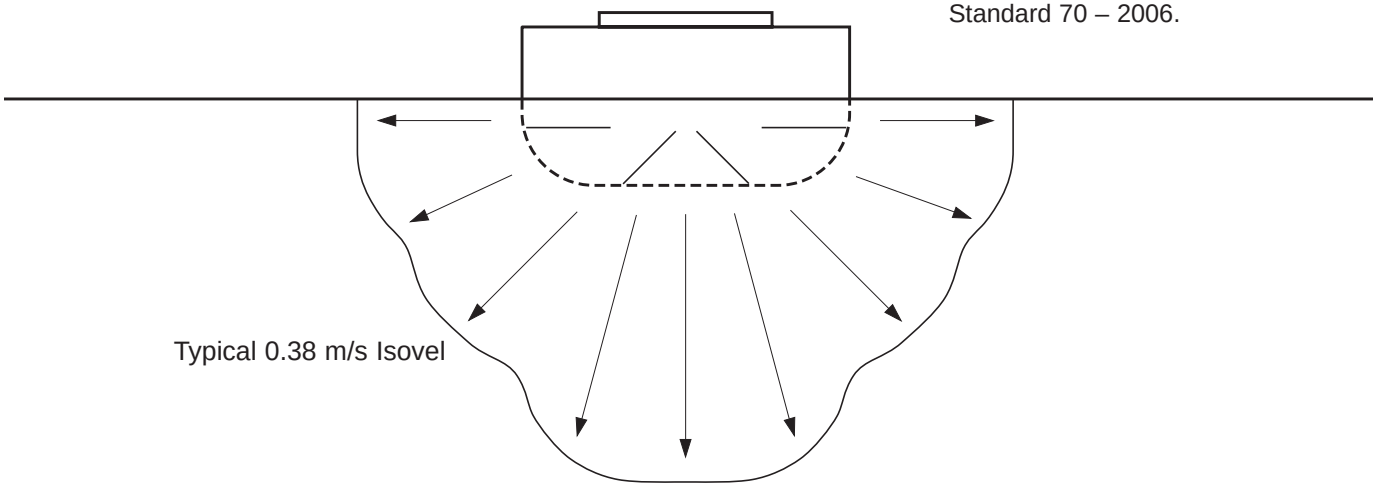

Typical 0.38 m/s Isovel