

Performance Data

Model FRD-HEPA-1 • 90° One-Way Pattern with HEPA Filter

Imperial Units

24" x 24" or 600 mm x 600 mm Module Size • 8" (203 mm) dia. Inlet

Airflow CFM	Pt	Ps	NC	T Horizontal ≤15°F ΔT			T Vertical Throw @ 5°F ΔT			T Vertical Throw @ 10°F ΔT			T Vertical Throw @ 15°F ΔT		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
150	0.33	0.32	–	1	1	2	0	1	1	0	1	2	0	1	2
200	0.61	0.59	–	1	2	3	1	1	2	1	2	2	1	2	3
300 *	1.38	1.33	28	1	3	4	1	2	3	1	2	3	2	3	4
400	2.46	2.37	37	2	3	4	2	3	5	2	3	5	3	4	7

24" x 24" or 600 mm x 600 mm Module Size • 10" (254 mm) dia. Inlet

Airflow CFM	Pt	Ps	NC	T Horizontal ≤15°F ΔT			T Vertical Throw @ 5°F ΔT			T Vertical Throw @ 10°F ΔT			T Vertical Throw @ 15°F ΔT		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
150	0.32	0.31	–	1	1	2	0	1	1	0	1	2	0	1	2
200	0.60	0.58	–	1	2	4	1	1	2	1	2	2	1	2	3
300 *	1.32	1.30	22	2	3	5	1	2	3	1	2	4	2	3	4
400	2.34	2.30	30	3	4	6	2	3	5	2	3	6	4	5	7

48" x 24" or 1200 mm x 600 mm Module Size • 10" (254 mm) dia. Inlet

Airflow CFM	Pt	Ps	NC	T Horizontal ≤15°F ΔT			T Vertical Throw @ 5°F ΔT			T Vertical Throw @ 10°F ΔT			T Vertical Throw @ 15°F ΔT		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
300	0.27	0.25	–	1	1	2	2	3	5	2	3	5	3	5	6
400	0.48	0.44	26	1	2	3	2	4	6	3	4	6	4	5	7
500	0.75	0.69	30	1	2	3	3	4	6	3	5	7	4	6	8
600	1.07	0.99	35	2	2	4	3	5	7	5	6	7	5	6	8
700 *	1.46	1.35	39	2	3	4	4	5	7	5	6	8	6	7	9

48" x 24" or 1200 mm x 600 mm Module Size • 12" (305 mm) dia. Inlet

Airflow CFM	Pt	Ps	NC	T Horizontal ≤15°F ΔT			T Vertical Throw @ 5°F ΔT			T Vertical Throw @ 10°F ΔT			T Vertical Throw @ 15°F ΔT		
				100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM	100 FPM	75 FPM	50 FPM
400	0.45	0.41	–	1	1	2	2	3	5	2	3	5	3	5	6
500	0.67	0.64	22	1	2	3	3	4	7	4	5	7	4	6	8
600	0.97	0.93	25	2	3	4	4	5	7	5	6	8	5	7	9
700 *	1.31	1.26	29	3	3	5	4	6	8	6	7	9	6	8	9
800	1.72	1.65	33	3	4	5	5	7	8	6	8	9	7	9	10

CFM - cubic feet per minute

FPM - feet per minute velocity

Pt - total pressure - inches w.g.

Ps - static pressure - inches w.g.

T - throw or spread in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Performance Notes:

1. Horizontal throw is the furthest distance from the diffuser centerline where the indicated terminal velocity can be measured.

2. Vertical throw is the furthest distance below the ceiling where the indicated terminal velocity can be measured.

3. ΔT is the temperature difference between supply and room air.

4. *Maximum airflow based on 150 fpm (0.76 m/s) velocity per square foot of filter media face area.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.