

FLUSH FACE RADIAL PATTERN DIFFUSERS



Performance Data

Model 92FRP-2SS • 180° Two-Way Pattern

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
200	.058	.037	20	1	1	2	1	1	1	1	1	2	1	1	2
300	.131	.082	29	1	2	3	1	2	2	1	2	3	1	2	3
400	.233	.146	36	2	3	4	1	3	4	2	3	4	2	4	5
500	.365	.228	43	2	3	4	2	3	6	2	4	6	3	5	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
300	.058	.039	20	1	1	2	1	2	2	1	2	3	1	2	4
400	.104	.068	24	1	2	3	1	3	5	2	3	5	2	4	6
500	.162	.107	29	2	3	4	2	4	6	2	4	7	3	5	8
600	.233	.154	38	2	3	5	3	5	8	3	6	9	4	7	10

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
400	.099	.064	20	1	2	3	1	1	2	1	2	2	1	2	3
500	.155	.100	24	2	3	4	1	2	3	1	2	3	1	3	4
600	.223	.144	30	2	3	4	1	2	4	1	2	5	2	4	6
700	.304	.196	38	3	4	5	2	2	5	2	3	6	2	4	6
800	.397	.256	45	3	4	5	2	3	5	2	4	7	3	5	7
900	.502	.324	51	4	5	5	2	4	6	3	5	8	4	6	8

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
500	.083	.057	20	1	1	2	1	2	3	1	2	4	2	3	5
600	.119	.082	24	1	2	3	1	2	4	1	2	5	2	3	6
700	.163	.111	29	1	2	4	1	2	5	2	3	6	2	4	7
800	.212	.145	34	2	3	4	2	3	5	2	4	7	3	5	8
900	.269	.183	40	2	3	5	2	4	6	3	5	8	4	6	9
1000	.332	.226	46	2	4	5	3	5	7	4	6	9	4	7	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 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. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.