

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.