

Performance Data

Models HRDP-1 • 90° Pattern

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
300	.114	.068	21	2.0	2.5	3.5	3.5	4.0	5.0
400	.203	.121	29	2.5	3.5	4.0	4.0	4.5	6.0
500	.317	.189	36	3.0	3.5	4.5	4.5	5.0	7.0

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
600	.082	.046	21	1.5	2.5	3.5	3.0	4.0	6.0
800	.146	.081	30	2.0	3.0	4.0	3.5	5.0	7.5
1000	.228	.127	38	2.5	3.0	4.5	4.5	6.0	8.5

48" x 12" or 1200 mm x 300 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
300	.125	.079	22	1.5	2.0	3.0	1.0	1.5	2.0
400	.221	.139	30	2.0	2.5	3.5	2.0	2.5	3.5
500	.346	.218	37	2.5	3.5	4.5	2.5	3.0	4.0

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 **HRDP-1** 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. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Typical 75 fpm Isovel

