

## Model: OMNI - Round Neck

## **Airflow Measurements:**

- 1. Record the velocity at each of the four locations shown with an Alnor 6070P, 6000, 2220 or 2220-A probe as shown.
- 2. Determine the average of the four recorded velocity readings.
- Calculate air flow rate using the following equation and applicable air flow factor. Flow rate: CFM = K-factor x Flow Factor x Average Velocity
- 4. Determine K-factor correction flow rate.

Flow rate: CFM = Correction factor x Average Velocity

5. Use the K-factor for blank-off blades. Multiply four-way by correction values given.



OMNI Round Neck Air Flow Factors
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Ceiling Module Size	Nominal Round Duct Size	Flow Factor	
12 x 12 inches	6 inches	0.143	
	7 inches	0.172	
	8 inches	0.203	
24 x 24 inches	6 inches	0.200 ~	
	8 inches	0.235	
	10 inches	0.281	
	12 inches	0.339	
	14 inches	0.406	
	15 inches	0.444	

## **K-factor Corrections**

Pattern	Blank Off Factor	NC Correction Facto r	Pressure Correction
Four-way	1.00	0	1.00
Three-way	0.96	+4	1.08
Two-way	0.83	+9	1.28
One-way	0.63	+17	1.875



Note: Refer to the Air Balancing Application Guide for more information about balancing air systems. **605 Shiloh Road • Plano, Texas 75074• 972-212-4800** 

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