

Model: Rectangular Drum Louver (DL)

Air Flow Measurements:

1. Position the Alnor velometer 2220A probe at blade center and read the velocities in each section.

Note: Probe position is always blade center, regardless of spread.

2. Select appropriate area factor from the table below.
3. Calculate flow rate using the following equation.

$$\text{Flow Rate: CFM} = A_K \times \text{Average Velocity}$$

Rectangular Drum Louver A_K Factors

Size	Spread Pattern (Degrees)		
	0	15	30
9 x 6	0.17	0.16	0.13
12 x 6	0.23	0.21	0.18
18 x 6	0.35	0.32	0.26
24 x 6	0.47	0.41	0.35
30 x 6	0.59	0.52	0.44
36 x 6	0.72	0.62	0.55
48 x 6	0.94	0.83	0.70
60 x 6	1.17	1.05	0.88
20 x 10	0.68	0.60	0.51
25 x 10	0.85	0.75	0.64
30 x 10	1.05	0.90	0.76
35 x 10	1.20	1.05	0.89
40 x 10	1.35	1.20	1.00
50 x 10	1.70	1.50	1.30
60 x 10	2.05	1.85	1.55
70 x 10	2.40	2.15	1.80
20 x 12	0.80	0.70	0.60
30 x 12	1.20	1.05	0.89
40 x 12	1.60	1.40	1.20
50 x 12	2.00	1.75	1.50
60 x 12	2.40	2.15	1.80
70 x 12	2.80	2.50	2.05

