

## Models: CT-480, -481, -580, -581, -540, and -541

### Air Flow Measurements Procedure:

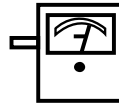
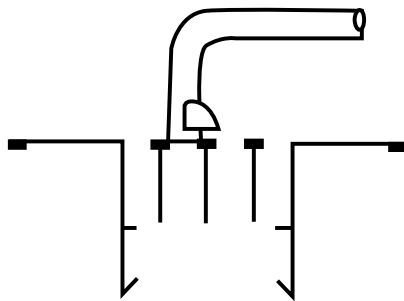
1. Determine the average velocity in the grille face with the Alnor 6070, 6000, 2220-A or 2220 probe positioned as shown by the drawings.
2. Calculate the flow rate using the following equation.

Flow Rate: CFM = (Factor ) VL

L = Length of section in feet.

V = Average Velocity (FPM).

**Note:** Select and use the applicable factor from the following table.



Alnor 6070, 6000,  
2220, or 2220-A

### Air Flow Factors (Alnor 6070, 6000, 2220 or 2220-A Velometers)

Model		Nominal Duct Width (inches)						Flow Factor Coefficient	
		2.000	2.500	3.000	3.500	4.000	5.000		6.000
CT-480	Supply	0.047	0.065	0.083	0.102	0.122	0.157	0.194	0.037
	Return	0.040	0.056	0.070	0.090	0.103	0.165	0.165	0.031
CT-481	Supply	0.049	0.065	0.082	0.099	0.117	0.152	0.186	0.035
	Return	0.044	0.057	0.072	0.083	0.100	0.130	0.158	0.030
CT-580	Supply	0.055	0.074	0.096	0.116	0.139	0.179	0.221	0.042
	Return	0.046	0.064	0.080	0.103	0.118	0.154	0.188	0.036
CT-581	Supply	0.056	0.075	0.093	0.113	0.133	0.173	0.212	0.040
	Return	0.050	0.065	0.082	0.095	0.114	0.148	0.180	0.034
CT-540	Supply	0.053	0.075	0.097	0.119	0.141	0.185	0.228	0.042
	Return	0.045	0.063	0.081	0.099	0.117	0.153	0.189	0.036
CT-541	Supply	0.048	0.067	0.086	0.105	0.127	0.167	0.210	0.040
	Return	0.042	0.058	0.073	0.090	0.105	0.140	0.180	0.034

For listed sizes greater than 6 inches, the flow factor in FT<sup>2</sup>/Foot of Length may be calculated by the following equation:

$$\frac{\text{Flow Factor}}{\text{Feet of Length}} = (\text{Listed width, Inches} - 0.75) \times \text{Flow Factor Coefficient}$$

These factors apply to all diffusers listed in the table with or without dampers.