

FIG. B

A <sub>k</sub>		NC 20-30	NC 30-40	NC 40-50	NC 50 or over
.13-.20	C.F.M. Throw in Ft.	100-150 5-10	250-300 12-16	— —	— —
.21-.30	C.F.M. Throw in Ft.	200-300 8-11	400-500 14-18	— —	— —
.31-.60	C.F.M. Throw in Ft.	350-500 9-12	550-825 15-20	— —	— —
.61-.90	C.F.M. Throw in Ft.	550-725 10-18	850-1200 19-28	— —	— —
.91-1.30	C.F.M. Throw in Ft.	750-1000 15-20	1200-1600 20-26	1650-2200 28-36	— —
1.31-1.70	C.F.M. Throw in Ft.	1000-1350 18-22	1600-2100 24-34	2200-2900 35-45	— —
1.71-2.20	C.F.M. Throw in Ft.	1350-1750 19-24	2200-2700 30-36	2900-3600 40-48	— —
2.21-4.10	C.F.M. Throw in Ft.	1750-2600 24-32	2700-4500 36-48	3500-6500 40-52	— —
4.10-7.59	C.F.M. Throw in Ft.	3000-4500 34-45	4600-9700 48-64	9800-11,000 60-80	11,200-14,000 64-86

Note: Blanks under NC 40 and NC 50 columns are due to excessive total pressure and are not recommended applications.

CORRECTION TABLE

Long Side "A" vs. Short Side "B"

Determine ratio of long side to short side, then reduce throw of short side by percentage factor.

Ratio of Long to Short Side	Reduce Short Side Throw to %
1.25 to 1	93
1.333 to 1	88
1.50 to 1	86
1.666 to 1	84
1.75 to 1	82
2.00 to 1	78
2.25 to 1	75
2.333 to 1	73
2.50 to 1	72
2.666 to 1	71
2.75 to 1	69
3.00 to 1	67
3.50 to 1	63
4.00 to 1	60

**INSTRUCTIONS:**

If selection of diffuser from procedure on Page TD-15 results in a size not shown under certified data on Pages TD-19, 20, 21 and 22, use the table under Fig. A to find Ak value required for desired sound level. Under Table, Fig. B, the throw can be selected from corresponding Ak value. Mathematical interpolation of C.F.M. and throw may be used when required.

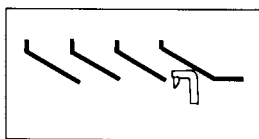


FIG. 1

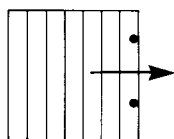


FIG. 2

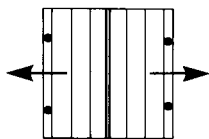


FIG. 3

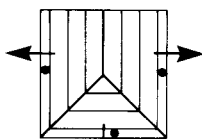


FIG. 4

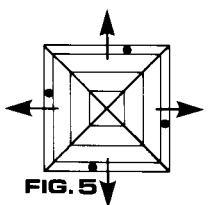


FIG. 5

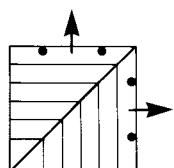


FIG. 6

**BALANCING PROCEDURE:  
AVP – SQUARE and RECTANGULAR**

To determine C.F.M., use an Alnor Velometer with 2220-A tip positioned as shown in Fig. 1. Take readings at points shown by dots (Figures 2 through 6) on all active discharge sides. On larger sizes, over 24x24, take at least two or three readings (Figures 3 and 4) per active side and average the total readings to arrive at jet velocity. After selecting the proper Ak value from the performance chart, multiply the average velocity times the Ak to determine C.F.M.