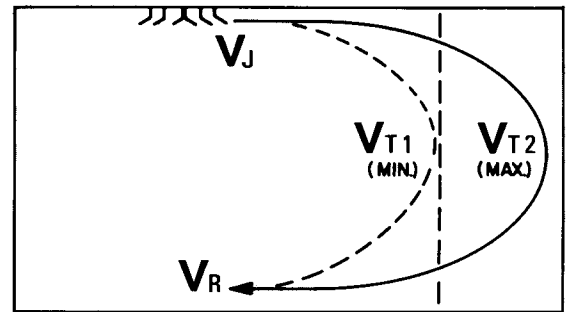


VELOCITIES SHOWN ON PERFORMANCE CHART BASED ON FOLLOWING DATA

- V_J** – Jet velocity as indicated by Velometer reading
- V_{T1}** – Terminal velocity of 100 ft. per min. based on isothermal air, readings 3 ft. below ceiling
- V_{T2}** – Terminal velocity of 50 ft. per min. based on isothermal air, readings 3 ft. below ceiling
- V_R** – Room velocity of 35 ft. per min. average based on short throw. 25 ft. per min. or less for long throw



DROP FOR V_{T1} and V_{T2}

| TEMP. DIFF. DEG. F. | DROP IN FT. – 10' CEIL. 100'/MIN. V _{T1} | DROP IN FT. – 10' CEIL. 50'/MIN. V _{T2} |
|---------------------|---|--|
| 0° | 1' | 2' |
| 10° | 2' | 3' |
| 20° | 3' | 4' |
| 30° | 5' | 6' |

FIGURES APPLY TO WALL OR MIDPOINT BETWEEN 2 DIFFUSERS.

AREA FACTORS FOR SIZES NOT SHOWN ON PERFORMANCE CHART

1-WAY PATTERN WITH OB DAMPER

| | | | | | | | | | | | | | |
|-----------|-----|------|------|------|------|------|------|------|------|------|------|--|--|
| NECK DIM. | 6 | .14 | | | | | | | | | | | |
| | 9 | .195 | .27 | | | | | | | | | | |
| | 12 | .25 | .38 | .50 | | | | | | | | | |
| | 15 | .32 | .475 | .63 | .79 | | | | | | | | |
| | 18 | .38 | .57 | .75 | .94 | 1.03 | | | | | | | |
| | 21 | .44 | .655 | .87 | 1.02 | 1.23 | 1.39 | | | | | | |
| | 24 | .50 | .75 | 1.00 | 1.21 | 1.43 | 1.59 | 1.81 | | | | | |
| | 27 | .56 | .84 | 1.10 | 1.40 | 1.54 | 1.80 | 2.02 | 2.45 | | | | |
| | 30 | .62 | .93 | 1.20 | 1.50 | 1.74 | 2.08 | 2.24 | 2.75 | 3.05 | | | |
| | 33 | .68 | 1.01 | 1.40 | 1.70 | 1.95 | 2.37 | 2.53 | 2.95 | 3.30 | 3.65 | | |
| 36 | .75 | 1.10 | 1.50 | 1.80 | 2.15 | 2.55 | 2.79 | 3.25 | 3.65 | 3.86 | 4.0 | | |
| | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | | |

2-WAY PATTERN WITH OB DAMPER

| | | | | | | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|--|--|
| NECK DIM. | 6 | .13 | | | | | | | | | | | | | | | |
| | 9 | .195 | .28 | | | | | | | | | | | | | | |
| | 12 | .25 | .37 | .49 | | | | | | | | | | | | | |
| | 15 | .33 | .47 | .60 | .74 | | | | | | | | | | | | |
| | 18 | .39 | .54 | .715 | .92 | 1.05 | | | | | | | | | | | |
| | 21 | .46 | .63 | .825 | 1.11 | 1.35 | 1.42 | | | | | | | | | | |
| | 24 | .53 | .73 | .94 | 1.32 | 1.52 | 1.62 | 1.845 | | | | | | | | | |
| | 27 | .60 | .84 | 1.08 | 1.41 | 1.71 | 1.93 | 2.18 | 2.48 | | | | | | | | |
| | 30 | .66 | .94 | 1.17 | 1.61 | 1.92 | 2.13 | 2.39 | 2.78 | 3.08 | | | | | | | |
| | 33 | .73 | 1.02 | 1.24 | 1.83 | 2.10 | 2.35 | 2.68 | 3.09 | 3.38 | 3.67 | | | | | | |
| 36 | .79 | 1.11 | 1.45 | 1.91 | 2.31 | 2.54 | 2.98 | 3.38 | 3.69 | 3.87 | 4.02 | | | | | | |
| 39 | .86 | 1.21 | 1.62 | 2.23 | 2.49 | 2.72 | 3.19 | 3.69 | 4.18 | 4.46 | 4.77 | 5.07 | | | | | |
| 42 | .92 | 1.30 | 1.80 | 2.43 | 2.70 | 2.89 | 3.58 | 3.98 | 4.57 | 4.89 | 5.18 | 5.47 | 5.89 | | | | |
| 45 | .99 | 1.39 | 2.03 | 2.72 | 2.89 | 3.15 | 3.92 | 4.30 | 4.98 | 5.31 | 5.67 | 5.92 | 6.77 | 7.01 | | | |
| 48 | 1.05 | 1.48 | 2.28 | 2.96 | 3.21 | 3.47 | 4.25 | 4.62 | 5.42 | 5.70 | 6.12 | 6.29 | 7.01 | 7.32 | 7.47 | | |
| | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | | |

3-WAY PATTERN WITH OB DAMPER

| | | | | | | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| NECK DIM. | 6 | .16 | | | | | | | | | | | | | | | |
| | 9 | .235 | .33 | | | | | | | | | | | | | | |
| | 12 | .30 | .43 | .57 | | | | | | | | | | | | | |
| | 15 | .37 | .53 | .70 | .86 | | | | | | | | | | | | |
| | 18 | .44 | .635 | .83 | .94 | 1.23 | | | | | | | | | | | |
| | 21 | .50 | .735 | .97 | 1.19 | 1.40 | 1.60 | | | | | | | | | | |
| | 24 | .57 | .83 | 1.10 | 1.40 | 1.60 | 1.80 | 2.17 | | | | | | | | | |
| | 27 | .62 | .95 | 1.20 | 1.50 | 1.90 | 2.10 | 2.46 | 2.75 | | | | | | | | |
| | 30 | .71 | 1.02 | 1.40 | 1.70 | 2.10 | 2.30 | 2.75 | 2.98 | 3.16 | | | | | | | |
| | 33 | .77 | 1.10 | 1.50 | 1.90 | 2.30 | 2.50 | 3.06 | 3.29 | 3.45 | 3.97 | | | | | | |
| 36 | .84 | 1.18 | 1.60 | 2.10 | 2.50 | 2.76 | 3.32 | 3.57 | 3.76 | 3.96 | 4.04 | | | | | | |
| 39 | .91 | 1.26 | 1.70 | 2.30 | 2.70 | 2.87 | 3.58 | 3.89 | 4.29 | 4.62 | 4.80 | 5.20 | | | | | |
| 42 | .98 | 1.34 | 1.85 | 2.50 | 2.90 | 3.09 | 3.87 | 4.17 | 4.68 | 4.96 | 5.20 | 5.56 | 6.17 | | | | |
| 45 | 1.05 | 1.52 | 2.07 | 2.78 | 3.12 | 3.36 | 4.16 | 4.48 | 5.08 | 5.37 | 5.75 | 6.08 | 6.88 | 7.25 | | | |
| 48 | 1.12 | 1.60 | 2.34 | 3.0 | 3.30 | 3.62 | 4.52 | 4.89 | 5.48 | 5.82 | 6.18 | 6.34 | 7.10 | 7.50 | 7.60 | | |
| | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | | |

4-WAY PATTERN WITH OB DAMPER

| | | | | | | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| NECK DIM. | 6 | .20 | | | | | | | | | | | | | | | |
| | 9 | .27 | .36 | | | | | | | | | | | | | | |
| | 12 | .32 | .46 | .58 | | | | | | | | | | | | | |
| | 15 | .39 | .55 | .71 | .87 | | | | | | | | | | | | |
| | 18 | .42 | .65 | .84 | 1.03 | 1.22 | | | | | | | | | | | |
| | 21 | .48 | .74 | .96 | 1.25 | 1.40 | 1.63 | | | | | | | | | | |
| | 24 | .57 | .85 | 1.16 | 1.36 | 1.60 | 1.84 | 2.10 | | | | | | | | | |
| | 27 | .64 | .94 | 1.25 | 1.55 | 1.80 | 2.16 | 2.36 | 2.54 | | | | | | | | |
| | 30 | .72 | 1.06 | 1.36 | 1.75 | 2.10 | 2.33 | 2.50 | 2.80 | 3.15 | | | | | | | |
| | 33 | .78 | 1.15 | 1.55 | 1.95 | 2.29 | 2.65 | 2.75 | 3.13 | 3.40 | 3.70 | | | | | | |
| 36 | .84 | 1.25 | 1.65 | 2.13 | 2.40 | 2.95 | 3.10 | 3.42 | 3.70 | 3.93 | 4.08 | | | | | | |
| 39 | .91 | 1.36 | 1.76 | 2.29 | 2.57 | 3.09 | 3.26 | 3.73 | 4.25 | 4.50 | 4.81 | 5.15 | | | | | |
| 42 | 1.02 | 1.45 | 1.88 | 2.52 | 2.80 | 3.20 | 3.65 | 4.04 | 4.64 | 4.95 | 5.25 | 5.50 | 6.02 | | | | |
| 45 | 1.06 | 1.56 | 2.09 | 2.78 | 2.97 | 3.32 | 4.06 | 4.35 | 5.02 | 5.40 | 5.75 | 6.02 | 6.95 | 7.30 | | | |
| 48 | 1.15 | 1.67 | 2.40 | 3.02 | 3.29 | 3.58 | 4.30 | 4.70 | 5.58 | 5.75 | 6.20 | 6.35 | 7.15 | 7.48 | 7.60 | | |
| | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | | |