



SEIHO - TX - MINI DIFFUSER PERFORMANCE DATA

SEIHO Residential MINI Diffuser Performance Data Model: **TX&TX-P**

| SIZE | Neck Area | Air Pattern | Face Plate | V.Shutter | Neck Velocity (fpm) | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | | | | |
|--------------------------------|----------------------|-------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|--------------|--------------|---------------------------------|------|------|------|------|-------|------|------|------|------|------|
| TX 4 | 0.080sq.ft | Combination Air Pattern | Fully Opened | Fully Opened | Airflow (CFM) | 16 | 24 | 31 | 39 | 47 | 55 | 63 | 71 | 78 | 94 | | | | |
| | | | | | SP | 0.04 | 0.07 | 0.11 | 0.17 | 0.25 | 0.35 | 0.49 | 0.63 | 0.81 | 1.20 | | | | |
| | | | | | Radius of Diffusion(Vt=@100fpm) | 0.3 | 0.5 | 0.8 | 1.0 | 1.2 | 1.5 | 1.6 | 1.8 | 2.0 | 2.3 | | | | |
| | | | | | Radius of Diffusion(Vt=@50fpm) | 0.7 | 1.0 | 1.3 | 1.6 | 2.0 | 2.5 | 2.6 | 3.0 | 3.3 | 3.9 | | | | |
| | | | | | Throw (Vt=@100fpm) | 1.2 | 1.6 | 2.1 | 2.6 | 3.1 | 3.6 | 4.3 | 4.6 | 4.9 | 5.9 | | | | |
| | | | | | Throw (Vt=@50fpm) | 2.0 | 3.0 | 3.9 | 4.6 | 5.6 | 6.2 | 7.5 | 8.2 | 8.9 | 10.5 | | | | |
| | | Combination Air Pattern | A Half Way Opened | Fully Opened | NC | - | - | - | - | - | - | 16 | 20 | 23 | 29 | | | | |
| | | | | | SP | 0.05 | 0.08 | 0.15 | 0.26 | 0.38 | 0.55 | 0.77 | 0.98 | 1.22 | 1.75 | | | | |
| | | | | | Radius of Diffusion(Vt=@100fpm) | 0.3 | 0.5 | 0.7 | 0.8 | 1.0 | 1.3 | 1.5 | 1.6 | 1.8 | 2.1 | | | | |
| | | | | | Radius of Diffusion(Vt=@50fpm) | 0.7 | 2.0 | 1.2 | 1.3 | 1.6 | 2.0 | 2.5 | 2.6 | 3.0 | 3.6 | | | | |
| | | | | | Throw (Vt=@100fpm) | 1.8 | 2.6 | 3.3 | 4.3 | 4.9 | 5.6 | 6.2 | 6.9 | 7.5 | 9.2 | | | | |
| | | | | | Throw (Vt=@50fpm) | 3.3 | 4.6 | 5.9 | 7.2 | 8.5 | 9.8 | 11.2 | 12.1 | 13.5 | 16.4 | | | | |
| | Radial Air Pattern | Fully Opened | Closed | NC | - | - | - | - | - | 16 | 21 | 24 | 28 | 33 | | | | | |
| | | | | SP | 0.06 | 0.11 | 0.19 | 0.30 | 0.41 | 0.56 | 0.76 | 0.96 | 1.18 | 1.75 | | | | | |
| | | | | Radius of Diffusion(Vt=@100fpm) | 0.5 | 0.7 | 1.0 | 1.3 | 1.5 | 1.8 | 2.1 | 2.3 | 2.6 | 3.3 | | | | | |
| | | | | Radius of Diffusion(Vt=@50fpm) | 1.0 | 1.2 | 1.6 | 2.0 | 2.5 | 3.0 | 3.6 | 3.9 | 4.3 | 5.3 | | | | | |
| | | | | NC | - | - | - | - | - | - | 15 | 19 | 22 | 29 | | | | | |
| | | | | SP | 0.36 | 0.85 | 1.52 | 2.38 | 3.44 | 4.61 | 6.06 | 7.56 | 9.17 | 13.0 | | | | | |
| | Vertical Air Pattern | Closed | Fully Opened | Throw (Vt=@100fpm) | 5.9 | 8.2 | 9.8 | 11.8 | 13.8 | 15.4 | 17.1 | 18.4 | 20.7 | 23.6 | | | | | |
| | | | | Throw (Vt=@50fpm) | 10.5 | 14.4 | 17.7 | 21.0 | 24.3 | 27.2 | 30.2 | 32.8 | 36.7 | 42.0 | | | | | |
| | | | | NC | - | - | 20 | 27 | 33 | 36 | 39 | 41 | 44 | 48 | | | | | |
| | | | | TX 6 | 0.183sq.ft | Combination Air Pattern | Fully Opened | Fully Opened | Airflow (CFM) | 36 | 54 | 72 | 90 | 108 | 126 | 144 | 162 | 180 | 216 |
| | | | | | | | | | SP | 0.04 | 0.07 | 0.12 | 0.2 | 0.31 | 0.43 | 0.59 | 0.76 | 0.96 | 1.38 |
| | | | | | | | | | Radius of Diffusion(Vt=@100fpm) | 0.7 | 1.0 | 1.3 | 1.6 | 2.0 | 2.3 | 2.6 | 3.0 | 3.3 | 3.9 |
| Radius of Diffusion(Vt=@50fpm) | 1.1 | 1.6 | 2.1 | | | | | | 2.6 | 3.3 | 3.6 | 4.3 | 4.9 | 5.2 | 6.2 | | | | |
| Throw (Vt=@100fpm) | 2.6 | 3.6 | 4.6 | | | | | | 5.9 | 6.9 | 7.9 | 9.2 | 10.2 | 11.2 | 13.1 | | | | |
| Throw (Vt=@50fpm) | 4.6 | 6.2 | 8.2 | | | | | | 10.5 | 12.5 | 14.1 | 16.4 | 18.0 | 20.0 | 23.6 | | | | |
| Combination Air Pattern | A Half Way Opened | Fully Opened | NC | | | - | - | - | - | - | 19 | 23 | 26 | 32 | | | | | |
| | | | SP | | | 0.05 | 0.10 | 0.18 | 0.31 | 0.48 | 0.69 | 0.95 | 1.22 | 1.52 | 2.19 | | | | |
| | | | Radius of Diffusion(Vt=@100fpm) | | | 0.5 | 0.8 | 1.1 | 1.5 | 1.6 | 2.0 | 2.3 | 2.5 | 2.8 | 3.3 | | | | |
| | | | Radius of Diffusion(Vt=@50fpm) | | | 1.0 | 1.3 | 1.8 | 2.3 | 2.6 | 3.3 | 3.6 | 3.9 | 4.6 | 5.2 | | | | |
| | | | Throw (Vt=@100fpm) | | | 3.3 | 4.9 | 5.9 | 7.9 | 9.2 | 10.5 | 12.1 | 13.4 | 14.4 | 17.1 | | | | |
| | | | Throw (Vt=@50fpm) | | | 5.9 | 8.5 | 10.5 | 13.8 | 16.4 | 18.7 | 21.6 | 23.6 | 25.6 | 30.5 | | | | |
| Radial Air Pattern | Fully Opened | Closed | NC | | - | - | - | - | - | 16 | 21 | 26 | 29 | 32 | 38 | | | | |
| | | | SP | | 0.06 | 0.13 | 0.24 | 0.38 | 0.57 | 0.81 | 1.08 | 1.34 | 1.63 | 2.38 | | | | | |
| | | | Radius of Diffusion(Vt=@100fpm) | | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.6 | 3.9 | 4.6 | 4.9 | 5.9 | | | | | |
| | | | Radius of Diffusion(Vt=@50fpm) | | 1.6 | 2.5 | 3.3 | 3.9 | 4.9 | 5.6 | 6.2 | 7.2 | 7.9 | 9.5 | | | | | |
| | | | NC | | - | - | - | - | - | - | 19 | 23 | 27 | 34 | | | | | |
| | | | SP | | 0.27 | 0.67 | 1.26 | 1.99 | 2.89 | 4.01 | 5.20 | 6.57 | 8.07 | 11.54 | | | | | |
| Vertical Air Pattern | Closed | Fully Opened | Throw (Vt=@100fpm) | | 8.5 | 12.0 | 15.8 | 19.6 | 22.9 | 25.5 | 28.5 | 32.8 | 36.7 | 42.6 | | | | | |
| | | | Throw (Vt=@50fpm) | | 15.4 | 21.0 | 27.6 | 35.0 | 41.0 | 45.9 | 51.0 | 58.0 | 65.6 | 75.0 | | | | | |
| | | | NC | | - | - | 19 | 26 | 31 | 34 | 38 | 41 | 43 | 48 | | | | | |
| | | | TX 8 | | 0.328sq.ft | Combination Air Pattern | Fully Opened | Fully Opened | Airflow (CFM) | 64 | 97 | 129 | 162 | 194 | 227 | 259 | 291 | 324 | 388 |
| | | | | | | | | | SP | 0.05 | 0.11 | 0.2 | 0.3 | 0.45 | 0.63 | 0.85 | 1.08 | 1.34 | 1.93 |
| | | | | | | | | | Radius of Diffusion(Vt=@100fpm) | 1.2 | 1.5 | 1.8 | 2.1 | 2.6 | 3.0 | 3.3 | 3.6 | 3.9 | 4.6 |
| Radius of Diffusion(Vt=@50fpm) | 2.0 | 2.5 | | 3.0 | | | | | 3.6 | 4.3 | 4.9 | 5.3 | 5.9 | 6.2 | 7.2 | | | | |
| Throw (Vt=@100fpm) | 3.3 | 4.6 | | 5.6 | | | | | 6.9 | 8.2 | 9.5 | 10.5 | 11.8 | 12.5 | 14.8 | | | | |
| Throw (Vt=@50fpm) | 5.6 | 8.2 | | 9.8 | | | | | 12.5 | 14.8 | 16.4 | 18.4 | 20.7 | 22.3 | 26.2 | | | | |
| Combination Air Pattern | A Half Way Opened | Fully Opened | | NC | | - | - | - | - | - | 16 | 20 | 24 | 27 | 33 | | | | |
| | | | | SP | | 0.07 | 0.16 | 0.29 | 0.47 | 0.72 | 1.07 | 1.36 | 1.73 | 2.13 | 3.11 | | | | |
| | | | | Radius of Diffusion(Vt=@100fpm) | | 0.8 | 1.2 | 1.5 | 1.8 | 2.1 | 2.5 | 2.6 | 3.0 | 3.3 | 3.6 | | | | |
| | | | | Radius of Diffusion(Vt=@50fpm) | | 1.5 | 2.0 | 2.5 | 3.0 | 3.6 | 3.9 | 4.3 | 4.9 | 5.3 | 5.9 | | | | |
| | | | | Throw (Vt=@100fpm) | | 4.3 | 6.6 | 8.2 | 10.5 | 12.5 | 14.4 | 16.4 | 18.7 | 20.7 | 24.6 | | | | |
| | | | | Throw (Vt=@50fpm) | | 7.9 | 11.5 | 14.8 | 18.4 | 22.3 | 25.6 | 29.5 | 32.8 | 36.7 | 44.3 | | | | |
| Radial Air Pattern | Fully Opened | Closed | | NC | - | - | - | - | - | 19 | 25 | 31 | 36 | 37 | 41 | | | | |
| | | | | SP | 0.09 | 0.21 | 0.42 | 0.67 | 1 | 1.36 | 1.77 | 2.24 | 2.81 | 4.25 | | | | | |
| | | | | Radius of Diffusion(Vt=@100fpm) | 2.0 | 2.6 | 3.3 | 4.3 | 4.9 | 5.6 | 5.9 | 6.6 | 7.2 | 8.5 | | | | | |
| | | | | Radius of Diffusion(Vt=@50fpm) | 3.3 | 4.3 | 5.3 | 6.6 | 7.5 | 8.5 | 9.5 | 10.2 | 11.2 | 13.1 | | | | | |
| | | | | NC | - | - | - | - | 18 | 23 | 28 | 32 | 36 | 42 | | | | | |
| | | | | SP | 0.35 | 0.86 | 1.56 | 2.42 | 3.54 | 5.04 | 6.57 | 8.07 | 9.84 | 14.17 | | | | | |
| Vertical Air Pattern | Closed | Fully Opened | | Throw (Vt=@100fpm) | 15.1 | 18.7 | 21.3 | 24.6 | 27.6 | 29.9 | 34.8 | 34.8 | 36.7 | 41.0 | | | | | |
| | | | | Throw (Vt=@50fpm) | 26.6 | 32.8 | 37.7 | 44.3 | 49.2 | 53.1 | 57.4 | 61.7 | 65.6 | 72.2 | | | | | |
| | | | | NC | - | - | 21 | 30 | 36 | 35 | 38 | 42 | 44 | 49 | | | | | |

DASHED LINE IN NC BOX INDICATES NOISE LEVEL IS LESS THAN 20.
NC LEVEL IS BASED ON 10dB ROOM ATTENUATION(PWL RE:10-12 WATTS) WITH ONE DIFFUSER OPERATING.

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