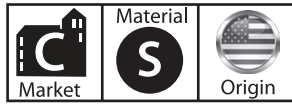


Series 6900 T-bar Diffuser

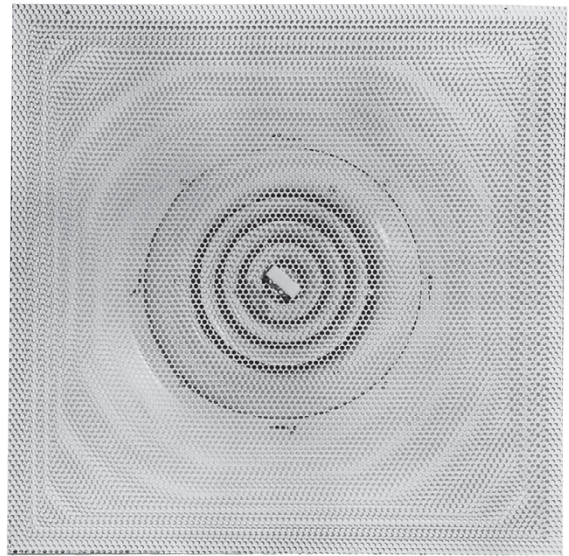


- Perforated face
- Steel construction
- Fixed collar
- Installed round diffuser
- No insulation
- White finish
- Made in the U.S.A.

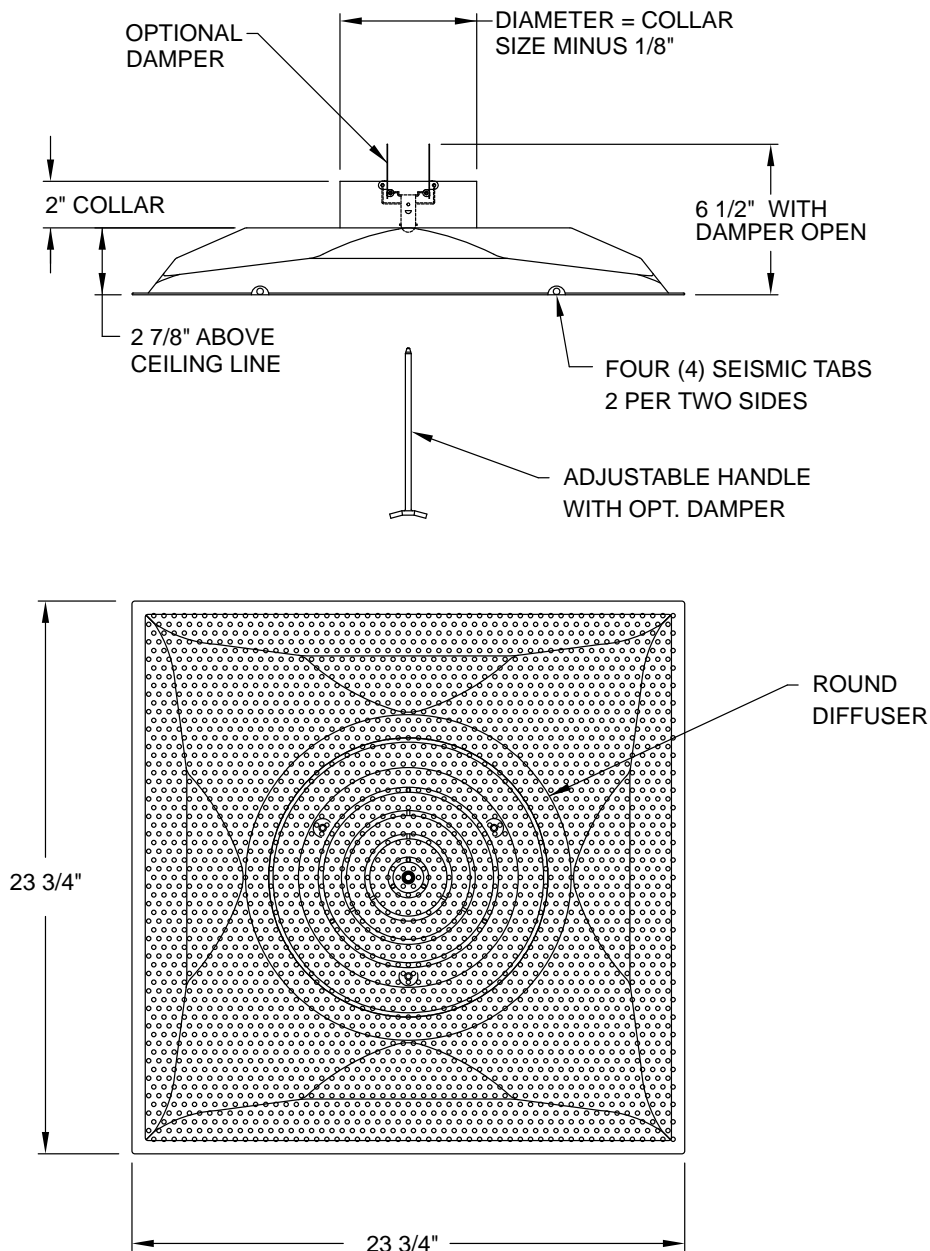
Associated Series:

Series 6900-38D

- 6900 + installed Series 3800 damper



Dimensional Drawing



Performance Data, Series 6900

| Collar Size ↓ | Neck Velocity → | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|--------------------------|--------------------|------|------|------|------|------|------|------|------|
| 6" An .27 Ak .34 | Cfm | 61 | 82 | 102 | 122 | 143 | 163 | 184 | 204 |
| | Ps | <.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 |
| | Nc | <20 | <20 | <20 | <20 | 21 | 24 | 28 | 32 |
| | Throw | 4 | 5 | 7 | 8 | 9 | 11 | 12 | 13 |
| 8" An .35 Ak .34 | Cfm | 82 | 109 | 136 | 163 | 191 | 217 | 245 | 272 |
| | Ps | <.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 |
| | Nc | <20 | <20 | 23 | 26 | 31 | 39 | 43 | 45 |
| | Throw | 6 | 7 | 9 | 11 | 12 | 14 | 15 | 17 |
| 10" An .55 Ak .49 | Cfm | 123 | 164 | 204 | 245 | 286 | 327 | 368 | 409 |
| | Ps | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 |
| | Nc | <20 | <20 | 21 | 26 | 34 | 40 | 42 | 47 |
| | Throw | 8 | 10 | 13 | 16 | 18 | 21 | 24 | 26 |
| 12" An .79 Ak .49 | Cfm | 147 | 196 | 245 | 294 | 343 | 392 | 441 | 490 |
| | Ps | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 |
| | Nc | <20 | 20 | 25 | 33 | 40 | 42 | 43 | 48 |
| | Throw | 10 | 12 | 16 | 19 | 21 | 24 | 27 | 29 |
| 14" An 1.07 Ak .61 | Cfm | 183 | 244 | 305 | 366 | 427 | 488 | 549 | 610 |
| | Ps | 0.01 | 0.02 | 0.03 | 0.05 | 0.06 | 0.08 | 0.11 | 0.13 |
| | Nc | <20 | 20 | 25 | 30 | 38 | 44 | 45 | 49 |
| | Throw | 11 | 14 | 19 | 22 | 25 | 28 | 31 | 34 |

Terminal velocity = 75 fpm

An = Neck (collar) Area. Measured in square feet.

Ak = Effective Area. The calculated area of the outlet based on average, measured velocity between fins. Measured in square feet.

Neck Velocity = Velocity of air flow through the nominal area of the duct connection to the diffuser assembly. Measured in feet per minute.

Cfm = Air flow rate. Volume of air moving past a given plane per unit of time. Measured in cubic feet per minute.

Ps = Static Pressure. The normal, outward force of air within a duct. Measured in inches of H₂O.

Nc = Discharge acoustical noise, based on 10 dB room absorption. Measured to the nearest 1.0 dB

Throw = Distance the air stream travels from the outlet to a point where terminal velocity is reached. Measured in feet.