

ROUND CEILING DIFFUSER

FEATURES

- KYODO series C-2 Round ceiling diffusers are designed for both heating and cooling application.
- Its fashionable appearance makes it most popular with modern architectural designs.
- **Super low noise, suitable for use in noise-sensitive area such as performing theatres, studios, concert halls.**
- All sizes have 3 cones, giving a uniform appearance where different sizes are used in the same area.
- Round ceiling diffuser gives the most even air distribution due to its round streamline cones.
- Uniform, 360 degree discharge pattern.
- Gravity lock arrangement permits fast and easy removal of inner cores.
- A gang operated radial blades volume damper (SED II) is used for easy adjustment from diffuser face.
- Constructed of aluminium.

FINISH

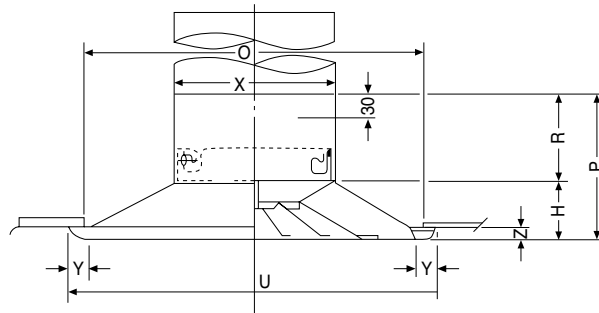
Standard finish in baked white enamel.
Other colours are available on request.

ACCESSORIES

Air Volume Control Damper:

- Radial Type (SED II) for Neck Size from Ø150 to Ø350.
- Butterfly Type (B II) for Neck Size from Ø400 to Ø450.

MODEL: C-2



DIMENSION

| No. | U | O | X | H | R | P | Y | Z |
|------|------|-----|-----|-----|-----|-----|----|----|
| 15 | 345 | 317 | 152 | 50 | 100 | 150 | 20 | 10 |
| 20 | 453 | 422 | 202 | 61 | 100 | 165 | 25 | 15 |
| 25 | 569 | 528 | 256 | 83 | 100 | 180 | 25 | 19 |
| 30 | 695 | 642 | 302 | 85 | 100 | 185 | 30 | 20 |
| 35 | 781 | 734 | 351 | 109 | 100 | 202 | 35 | 22 |
| 37.5 | 855 | 810 | 377 | 118 | 100 | 218 | 35 | 22 |
| 40 | 905 | 845 | 404 | 118 | 100 | 218 | 40 | 22 |
| 45 | 1029 | 965 | 454 | 122 | 100 | 222 | 40 | 25 |

Dimensions are in mm.

TECHNICAL PERFORMANCE DATA

MODEL: C-2

| NECK SIZE C (mm) | Neck Velocity (m/s) | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 6.0 | |
|------------------|---------------------|------------|------|------|------|------|------|------|------|-----|
| Φ 150 | Air Volume CMH | 130 | 160 | 190 | 225 | 255 | 287 | 320 | 385 | |
| | Throw (m) | Horizontal | <1.0 | 1.1 | 1.4 | 1.6 | 1.8 | 2.2 | 2.4 | 2.8 |
| | | Vertical | 1.0 | 1.2 | 1.8 | 2.5 | 3.1 | 3.4 | 3.8 | 4.4 |
| | S.P. (Pa) | Horizontal | <10 | 15 | 22 | 28 | 35 | 43 | 56 | 74 |
| | | Vertical | 10 | 16 | 23 | 29 | 40 | 45 | 58 | 85 |
| | NR | Horizontal | <20 | <20 | <20 | <20 | <20 | 22 | 26 | 32 |
| Vertical | | <20 | <20 | <20 | <20 | 21 | 25 | 29 | 34 | |
| Φ 200 | Air Volume CMH | 230 | 285 | 340 | 396 | 455 | 510 | 565 | 680 | |
| | Throw (m) | Horizontal | 1.0 | 1.2 | 1.5 | 1.7 | 1.9 | 2.2 | 2.6 | 3.0 |
| | | Vertical | 1.5 | 2.2 | 2.8 | 3.4 | 3.9 | 4.3 | 4.8 | 5.4 |
| | S.P. (Pa) | Horizontal | 11 | 16 | 21 | 26 | 32 | 39 | 51 | 75 |
| | | Vertical | 11 | 18 | 22 | 30 | 38 | 47 | 58 | 82 |
| | NR | Horizontal | <20 | <20 | <20 | <20 | 24 | 28 | 30 | 37 |
| Vertical | | <20 | <20 | <20 | 20 | 25 | 28 | 31 | 37 | |
| Φ 250 | Air Volume CMH | 355 | 445 | 530 | 620 | 710 | 795 | 885 | 1060 | |
| | Throw (m) | Horizontal | 1.0 | 1.3 | 1.6 | 1.8 | 2.2 | 2.4 | 2.6 | 3.2 |
| | | Vertical | 2.2 | 3.0 | 3.5 | 4.0 | 4.6 | 5.0 | 5.3 | 6.2 |
| | S.P. (Pa) | Horizontal | 12 | 14 | 18 | 28 | 38 | 45 | 51 | 78 |
| | | Vertical | 13 | 16 | 22 | 30 | 39 | 48 | 57 | 82 |
| | NR | Horizontal | <20 | <20 | <20 | 22 | 28 | 31 | 34 | 40 |
| Vertical | | <20 | <20 | <20 | 23 | 29 | 32 | 35 | 41 | |
| Φ 300 | Air Volume CMH | 510 | 640 | 765 | 890 | 1020 | 1145 | 1275 | 1530 | |
| | Throw (m) | Horizontal | 1.0 | 1.4 | 1.7 | 2.0 | 2.3 | 2.6 | 2.8 | 3.4 |
| | | Vertical | 2.6 | 3.6 | 4.2 | 4.8 | 5.3 | 5.7 | 6.0 | 6.6 |
| | S.P. (Pa) | Horizontal | 10 | 17 | 21 | 29 | 38 | 42 | 52 | 77 |
| | | Vertical | 11 | 18 | 22 | 30 | 40 | 48 | 57 | 82 |
| | NR | Horizontal | <20 | <20 | <20 | <20 | 27 | 29 | 33 | 40 |
| Vertical | | <20 | <20 | 20 | 24 | 29 | 31 | 36 | 42 | |
| Φ 350 | Air Volume CMH | 695 | 865 | 1040 | 1215 | 1385 | 1560 | 1735 | 2080 | |
| | Throw (m) | Horizontal | 1.2 | 1.5 | 1.8 | 2.2 | 2.5 | 2.7 | 3.0 | 3.5 |
| | | Vertical | 3.2 | 4.0 | 4.7 | 5.3 | 5.7 | 6.0 | 6.4 | 7.1 |
| | S.P. (Pa) | Horizontal | 10 | 15 | 22 | 29 | 38 | 44 | 54 | 78 |
| | | Vertical | 11 | 16 | 23 | 31 | 40 | 46 | 56 | 80 |
| | NR | Horizontal | <20 | <20 | <20 | <20 | 24 | 28 | 32 | 43 |
| Vertical | | <20 | <20 | 24 | 28 | 31 | 34 | 38 | 44 | |
| Φ 400 | Air Volume CMH | 905 | 1130 | 1360 | 1585 | 1810 | 2035 | 2265 | 2715 | |
| | Throw (m) | Horizontal | 1.2 | 1.7 | 1.9 | 2.3 | 2.7 | 3.0 | 3.2 | 3.9 |
| | | Vertical | 3.6 | 4.4 | 5.0 | 5.7 | 6.2 | 6.5 | 7.0 | 7.6 |
| | S.P. (Pa) | Horizontal | 10 | 15 | 22 | 28 | 36 | 43 | 55 | 78 |
| | | Vertical | 11 | 16 | 24 | 30 | 37 | 45 | 57 | 80 |
| | NR | Horizontal | <20 | <20 | <20 | <20 | 23 | 27 | 32 | 36 |
| Vertical | | <20 | 22 | 28 | 32 | 35 | 38 | 41 | 45 | |
| Φ 450 | Air Volume CMH | 1145 | 1435 | 1720 | 2005 | 2290 | 2575 | 2865 | 3435 | |
| | Throw (m) | Horizontal | 1.4 | 1.8 | 2.4 | 2.6 | 2.9 | 3.2 | 3.4 | 4.0 |
| | | Vertical | 3.8 | 4.9 | 5.6 | 6.5 | 7.0 | 7.6 | 8.2 | 8.6 |
| | S.P. (Pa) | Horizontal | 11 | 16 | 23 | 29 | 38 | 45 | 56 | 80 |
| | | Vertical | 12 | 17 | 25 | 31 | 39 | 46 | 58 | 82 |
| | NR | Horizontal | <20 | <20 | 22 | 25 | 29 | 34 | 40 | 44 |
| Vertical | | <20 | 23 | 29 | 33 | 36 | 41 | 44 | 48 | |

- Result of performance is tested under NATA
- SP – Static Pressure drops are in Pascals
- NR – Noise rating in dB re 10⁻¹² watts. Room correction of -6dB
- Throw – Throw at 0.5 m/s Terminal Velocity in metres (as per ADC 1062 R3)