

RF Perforated Face Return Air Diffuser

ASLI RF series is a type of grille with perforated face for free return air application. It is suitable for T-bar ceiling installation.

Materials

RF-A

Frame : Aluminium Extrusion A6063.

Perforated Face : 0.7mm aluminium sheet.

RF-T

Frame : 0.7mm galvanized steel.

Perforated Face : 0.7mm galvanized steel.

Surface Finish

Baked white powder coated as standard.

Other available upon request.

Standard Sizes

300 x 600 (1' x 2')

600 x 600 (2' x 2')

Other available upon request.

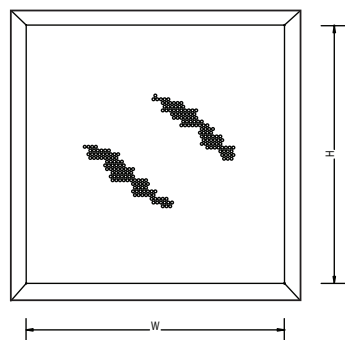
Features

- Suitable for the free return air application.
- Most suitable for T-bar ceiling installation.
- The model RF can just sit on the T-bar without any support.
- Approximately 43% free area.

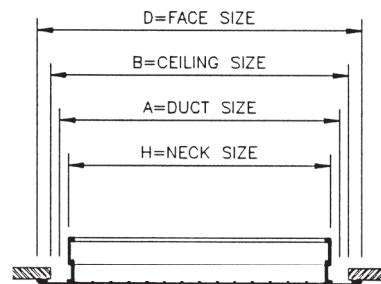
Accessories

- C1 Radial fan Blade damper
- C2 Crown damper
- D2 Adapter
- G1 Opposed blade damper
- IS Insect nettings

RF Physical Dimension *Unit : mm*



Top View



Sectional View

| Model | A Duct Size | B Wall Size | D Face Size |
|-------|----------------|----------------|----------------|
| RF-T | W+10 H+10 | W+20 H+20 | W+60 H+60 |
| RF-A | | | W+30 H+30 |

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RF Performance Data

| Neck Size Area (m ²) | Neck Size (mm x mm) | Neck Vel. (m/s) | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 5.0 | 6.0 |
|----------------------------------|------------------------|------------------|------|------|------|------|------|------|------|
| | | Vel. Press(mmAq) | 0.25 | 0.4 | 0.55 | 0.75 | 1.0 | 1.55 | 2.2 |
| | | Neg. SP(mmAq) | 1.6 | 2.4 | 3.3 | 4.5 | 5.8 | 9.0 | 12.8 |
| 0.025 | 250 x 100 | CMH | 180 | 225 | 270 | 315 | 360 | 450 | 540 |
| | 200 x 125 | NC | 29 | 32 | 34 | 35 | 37 | 39 | 40 |
| 0.03 | 300 x 100 | CMH | 216 | 270 | 324 | 378 | 432 | 540 | 648 |
| | 200 x 150 | NC | 29 | 32 | 34 | 35 | 37 | 39 | 40 |
| 0.04 | 400 x 100 | CMH | 288 | 360 | 432 | 504 | 576 | 720 | 864 |
| | 250 x 150 | NC | 29 | 32 | 34 | 35 | 36 | 39 | 40 |
| 0.045 | 350 x 125 | CMH | 324 | 405 | 486 | 567 | 648 | 810 | 972 |
| | 300 x 150 | NC | 29 | 31 | 33 | 35 | 36 | 38 | 40 |
| 0.05 | 350 x 150 | CMH | 360 | 450 | 540 | 630 | 720 | 900 | 1080 |
| | 250 x 200 | NC | 28 | 31 | 32 | 34 | 35 | 37 | 39 |
| 0.06 | 600 x 100 | CMH | 432 | 540 | 648 | 756 | 864 | 1080 | 1296 |
| | 400 x 150 | NC | 28 | 30 | 32 | 34 | 35 | 37 | 39 |
| 0.075 | 600 x 125 / 350 x 200 | CMH | 540 | 675 | 810 | 945 | 1080 | 1350 | 1620 |
| | 500 x 150 / 300 x 250 | NC | 27 | 30 | 31 | 33 | 34 | 36 | 38 |
| 0.09 | 700 x 125 / 400 x 200 | CMH | 648 | 810 | 972 | 1134 | 1296 | 1620 | 1944 |
| | 550 x 150 / 350 x 250 | NC | 27 | 29 | 31 | 33 | 34 | 36 | 38 |
| 0.1 | 750 x 125 / 450 x 200 | CMH | 720 | 900 | 1080 | 1260 | 1440 | 1800 | 2160 |
| | 660 x 150 / 400 x 250 | NC | 27 | 29 | 31 | 33 | 33 | 36 | 37 |
| 0.12 | 900 x 125 / 450 x 250 | CMH | 864 | 1080 | 1296 | 1512 | 1728 | 2160 | 2592 |
| | 750 x 150 / 350 x 300 | NC | 26 | 29 | 30 | 32 | 33 | 36 | 37 |
| 0.128 | 850 x 150 / 500 x 250 | CMH | 922 | 1152 | 1382 | 1612 | 1843 | 2304 | 2765 |
| | 600 x 200 / 400 x 300 | NC | 26 | 29 | 30 | 31 | 33 | 35 | 37 |
| 0.135 | 1200 x 125 / 450 x 300 | CMH | 972 | 1215 | 1458 | 1700 | 1944 | 2430 | 2916 |
| | 900 x 150 / 400 x 350 | NC | 26 | 28 | 29 | 31 | 32 | 34 | 36 |
| 0.18 | 900 x 200 / 600 x 300 | CMH | 1296 | 1620 | 1944 | 2268 | 2592 | 3240 | 3888 |
| | 750 x 250 / 450 x 400 | NC | 25 | 27 | 29 | 30 | 32 | 34 | 36 |
| 0.27 | 750 x 350 / 600 x 450 | CMH | 1944 | 2430 | 2915 | 3402 | 3888 | 4860 | 5832 |
| | 660 x 400 / 550 x 500 | NC | 24 | 26 | 28 | 29 | 31 | 33 | 35 |
| 0.36 | 1200 x 300 / 750 x 450 | CMH | 2592 | 3240 | 3888 | 4536 | 5184 | 5480 | 7773 |
| | 900 x 400 / 600 x 600 | NC | 23 | 25 | 27 | 28 | 30 | 32 | 34 |

• NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.

RF Order Code

| Model | Material | Accessories | Face Size | Neck Size |
|-------|----------|-------------|-------------|-------------|
| RF | A | IS | B 280 x 130 | N 250 x 100 |

Example : RF - A + IS - B 280 x 130, N 250 x 100