



FICHE TECHNIQUE

SQUARE DIFFUSERS

MODELS ISO, ISOD, ISOI ARCHITECTURAL PLAQUE DIFFUSERS

- MODEL **ISO** - Round neck
 MODEL **ISOD** - 2" high collar, single-box
 MODEL **ISOI** - R6 Insulated - Pre-scored for collars

ISO Series supply diffusers are recommended for heating, ventilating and cooling.

The ISO series provide a 360° air diffusion pattern similar to a full round diffuser. High diffusion induction rates result in rapid temperature and velocity equalization of the mixed air mass well above the zone of occupancy. Horizontal performance assures confident use of cooling temperature differential of 30°F and greater, at predicted low air motion 35 fpm in the zone of occupancy. ISO Series supply diffusers perform efficiently with air loadings of 6 to 30 air changes per hour (based on 10 ft. ceiling height), and sound level range of NC 25 to 35.

Features:

- Full face 24" x 24" for all neck sizes.
- Full face 12" x 12" for 6" & 8" neck sizes.
- Heavy-gauge all-steel construction.
- Ideal for VAV systems.
- Powder paint coating - White (default) Custom colours avail.
- Matching OBD dampers, NBI baffle, and PF plaster frame available.

| ISO Model Size | Neck Dia | Nominal Face Size | Overall Face Size B x B | Drywall Ceiling Opening |
|----------------|----------|-------------------|-------------------------|-------------------------|
| 1206 | 6 | 12 x 12 | 11¾ x 11¾ | 10½ x 10½ |
| 1208 | 8 | 12 x 12 | 11¾ x 11¾ | 10½ x 10½ |
| 2406 | 6 | 24 x 24 | 23¾ x 23¾ | 22½ x 22½ |
| 2408 | 8 | 24 x 24 | 23¾ x 23¾ | 22½ x 22½ |
| 2410 | 10 | 24 x 24 | 23¾ x 23¾ | 22½ x 22½ |
| 2412 | 12 | 24 x 24 | 23¾ x 23¾ | 22½ x 22½ |
| 2414 | 14 | 24 x 24 | 23¾ x 23¾ | 22½ x 22½ |

| Model | Nominal Face Size | Overall Face Size B x B |
|-------|-------------------|-------------------------|
| ISOI | 24 x 24 | 23¾ x 23¾ |

All dimensions in inches



ISOI fiberglass back.



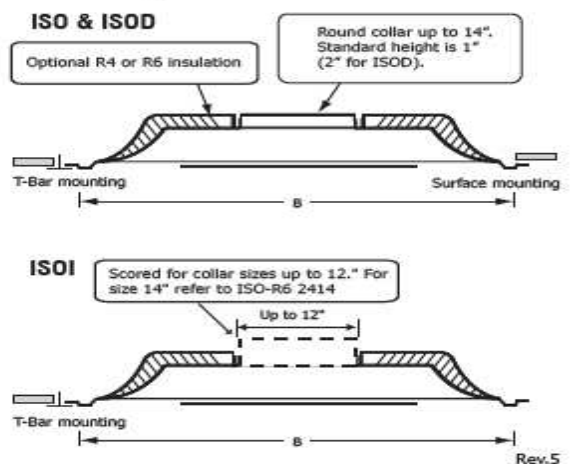
Highlights:

- **ISO** model suits both T-Bar and Drywall installation using rigid ducts
- Removable core for access to optional damper

Insulation:

ISO & ISOD - Optional R4 or R6 insulation. R6 fiberglass insulation complies with A.S.T.M. E84 flame and smoke test. Only available on models with 24" x 24" face.

ISOI - R6 fiberglass insulation.



Rev.5



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| RÉFÉRENCE : |
| INGÉNIEUR : |
| ARCHITECTE : |
| CONTRACTEUR : |



FICHE TECHNIQUE

PLA

PERFORMANCE DATA

SERIES ISO

PLAQUE DIFFUSERS



12" x 12" face

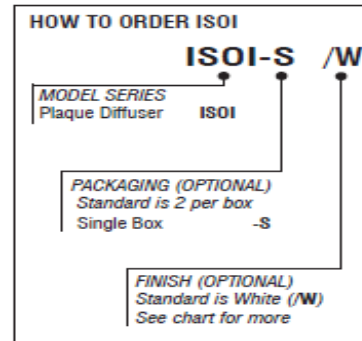
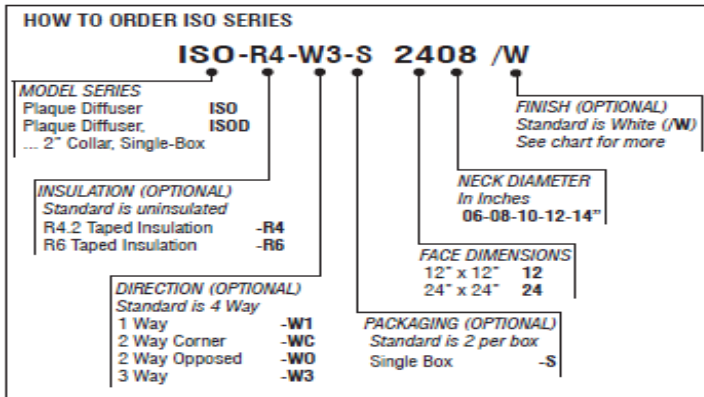
| SIZE (inches) | Neck Velocity (fpm) | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | 1600 | |
|---------------|---|-------|-------|--------|--------|--------|---------|---------|----------|----------|----|
| 6 | Velocity Pressure (in H ₂ O) | .010 | .015 | .022 | .031 | .041 | .062 | .090 | .122 | .160 | |
| | CFM | 78 | 98 | 118 | 137 | 157 | 196 | 235 | 274 | 313 | |
| | Total Pressure | .05 | .07 | .10 | .14 | .18 | .25 | .41 | .58 | .72 | |
| | NC | < .20 | < .20 | < .20 | < .20 | < .20 | < .20 | 21 | 34 | 29 | 57 |
| | Throw (ft) | 2-3-6 | 3-4-7 | 4-5-9 | 4-5-10 | 5-6-11 | 6-8-12 | 7-9-13 | 8-10-15 | 9-11-16 | |
| 8 | CFM | 140 | 175 | 209 | 244 | 279 | 349 | 419 | 489 | 559 | |
| | Total Pressure | .07 | .10 | .15 | .21 | .29 | .42 | .62 | .84 | 1.00 | |
| | NC | < .20 | < .20 | < .20 | < .20 | < .20 | < .20 | 25 | 39 | 45 | |
| | Throw (ft) | 2-4-7 | 3-5-9 | 4-7-10 | 5-8-11 | 6-9-12 | 7-10-14 | 8-12-17 | 10-12-18 | 11-14-20 | |

24" x 24" face

| SIZE (inches) | Neck Velocity (fpm) | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | 1600 |
|----------------|---|--------|--------|--------|---------|---------|----------|----------|----------|----------|
| 6 | Velocity Pressure (in H ₂ O) | .010 | .015 | .022 | .031 | .041 | .062 | .090 | .122 | .160 |
| | CFM | 78 | 98 | 118 | 137 | 157 | 196 | 235 | 274 | 313 |
| | Total Pressure | .05 | .07 | .10 | .14 | .18 | .25 | .41 | .58 | .72 |
| | NC | < .20 | < .20 | < .20 | < .20 | < .20 | < .20 | 23 | 37 | 37 |
| | Throw (ft) | 1-2-4 | 2-3-4 | 2-3-5 | 2-3-5 | 3-4-7 | 4-5-8 | 4-5-9 | 4-7-10 | 6-8-14 |
| 8 | CFM | 140 | 175 | 209 | 244 | 279 | 349 | 419 | 489 | 559 |
| | Total Pressure | .07 | .10 | .15 | .21 | .29 | .42 | .62 | .84 | 1.00 |
| | NC | < .20 | < .20 | < .20 | < .20 | < .20 | < .20 | 28 | 32 | 41 |
| | Throw (ft) | 2-3-5 | 2-3-7 | 3-4-8 | 3-5-8 | 4-5-9 | 5-7-11 | 6-8-14 | 7-9-14 | 7-10-14 |
| | 10 | CFM | 218 | 275 | 327 | 382 | 436 | 545 | 654 | 763 |
| Total Pressure | | .08 | .12 | .16 | .22 | .29 | .42 | .62 | .84 | 1.00 |
| NC | | < .20 | < .20 | < .20 | < .20 | < .20 | < .20 | 33 | 36 | 48 |
| Throw (ft) | | 3-4-6 | 4-5-8 | 4-5-10 | 5-7-12 | 6-8-14 | 7-9-15 | 8-11-16 | 9-12-17 | 10-13-19 |
| 12 | | CFM | 314 | 398 | 471 | 550 | 628 | 785 | 941 | 1099 |
| | Total Pressure | .10 | .14 | .18 | .25 | .33 | .48 | .72 | .96 | 1.20 |
| | NC | < .20 | < .20 | < .20 | < .20 | < .20 | < .20 | 38 | 43 | 57 |
| | Throw (ft) | 4-5-9 | 5-6-10 | 6-7-10 | 6-8-13 | 7-9-15 | 8-11-18 | 10-13-20 | 11-15-21 | 12-16-22 |
| | 14 | CFM | 432 | 545 | 654 | 763 | 872 | 1080 | 1280 | 1475 |
| Total Pressure | | .12 | .16 | .21 | .28 | .36 | .52 | .76 | 1.00 | 1.24 |
| NC | | < .20 | < .20 | < .20 | < .20 | < .20 | < .20 | 44 | 49 | 64 |
| Throw (ft) | | 4-6-10 | 5-6-11 | 6-8-14 | 7-10-16 | 8-11-18 | 10-14-20 | 12-15-22 | 12-17-23 | 14-19-24 |

NC Value based on 10 db room attenuation.

Throw Values are based on isothermal air and terminal velocities of 150 fpm, 100 fpm & 75 fpm respectively. Total Pressure the sum of static pressure plus velocity pressure and is given in inches w.g.



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