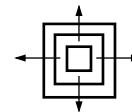


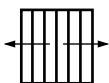
## A500 Series (Page 29, 30)

A501MS/A501OB  
One-Way Diffuser

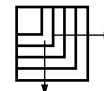
| Face Velocity |       | 400  | 500  | 600  | 700  | 900  | 1100 | 1500 |
|---------------|-------|------|------|------|------|------|------|------|
| Pressure Loss |       | .010 | .016 | .022 | .031 | .050 | .075 | .140 |
| 6 x 6         | CFM   | 55   | 65   | 75   | 90   | 120  | 140  | 195  |
| Ak .13        | Throw | 5.0  | 6.0  | 7.0  | 8.0  | 10.0 | 12.0 | 15.0 |
| 8 x 8         | CFM   | 75   | 90   | 105  | 120  | 150  | 180  | 240  |
| Ak .20        | Throw | 6.0  | 7.0  | 8.0  | 10.0 | 12.0 | 15.0 | 18.0 |
| 10 x 10       | CFM   | 115  | 135  | 155  | 175  | 235  | 290  | 395  |
| Ak .29        | Throw | 7.0  | 8.0  | 10.0 | 12.0 | 15.0 | 19.0 | 24.0 |
| 12 x 12       | CFM   | 170  | 210  | 255  | 300  | 380  | 470  | 610  |
| Ak .42        | Throw | 8.0  | 10.0 | 12.0 | 15.0 | 19.0 | 24.0 | 29.0 |
| 14 x 14       | CFM   | 250  | 305  | 360  | 410  | 505  | 610  | 800  |
| Ak .59        | Throw | 11.0 | 13.0 | 15.0 | 18.0 | 24.0 | 30.0 | 35.0 |

A504MS/A504OB  
Four-Way Diffuser

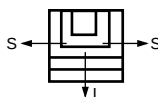
| Face Velocity |       | 400  | 500  | 600  | 700  | 900  | 1100 | 1500 |
|---------------|-------|------|------|------|------|------|------|------|
| Pressure Loss |       | .010 | .016 | .022 | .031 | .050 | .075 | .140 |
| 6 x 6         | CFM   | 55   | 65   | 75   | 90   | 120  | 140  | 195  |
| Ak .13        | Throw | 2.0  | 3.0  | 4.0  | 5.0  | 6.0  | 7.0  | 9.0  |
| 8 x 8         | CFM   | 75   | 90   | 105  | 120  | 150  | 180  | 240  |
| Ak .20        | Throw | 3.0  | 4.0  | 5.0  | 6.0  | 8.0  | 10.0 | 13.0 |
| 10 x 10       | CFM   | 115  | 135  | 155  | 175  | 235  | 290  | 395  |
| Ak .29        | Throw | 4.0  | 5.0  | 6.0  | 7.0  | 9.0  | 12.0 | 14.0 |
| 12 x 12       | CFM   | 170  | 210  | 255  | 300  | 380  | 470  | 610  |
| Ak .42        | Throw | 5.0  | 6.0  | 7.0  | 8.0  | 10.0 | 12.0 | 15.0 |
| 14 x 14       | CFM   | 250  | 305  | 360  | 410  | 505  | 610  | 800  |
| Ak .59        | Throw | 6.0  | 7.0  | 8.0  | 9.0  | 11.0 | 14.0 | 18.0 |

A502MS/A502OB  
Two-Way Diffuser

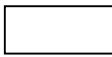
| Face Velocity |       | 400  | 500  | 600  | 700  | 900  | 1100 | 1500 |
|---------------|-------|------|------|------|------|------|------|------|
| Pressure Loss |       | .010 | .016 | .022 | .031 | .050 | .075 | .140 |
| 6 x 6         | CFM   | 55   | 65   | 75   | 90   | 120  | 140  | 195  |
| Ak .13        | Throw | 3.0  | 4.0  | 5.0  | 6.0  | 7.0  | 9.0  | 12.0 |
| 8 x 8         | CFM   | 75   | 90   | 105  | 120  | 150  | 180  | 240  |
| Ak .20        | Throw | 4.0  | 5.0  | 6.0  | 7.0  | 9.0  | 12.0 | 16.0 |
| 10 x 10       | CFM   | 115  | 135  | 155  | 175  | 235  | 290  | 395  |
| Ak .29        | Throw | 5.0  | 6.0  | 7.0  | 8.0  | 10.0 | 14.0 | 20.0 |
| 12 x 12       | CFM   | 170  | 210  | 255  | 300  | 380  | 470  | 610  |
| Ak .42        | Throw | 6.0  | 7.0  | 8.0  | 10.0 | 13.0 | 17.0 | 23.0 |
| 14 x 14       | CFM   | 250  | 305  | 360  | 410  | 505  | 610  | 800  |
| Ak .59        | Throw | 7.0  | 9.0  | 11.0 | 13.0 | 16.0 | 19.0 | 27.0 |

A505MS/A505OB  
Two-Way Corner Diffuser

| Face Velocity |       | 400  | 500  | 600  | 700  | 900  | 1100 | 1500 |
|---------------|-------|------|------|------|------|------|------|------|
| Pressure Loss |       | .010 | .016 | .022 | .031 | .050 | .075 | .140 |
| 6 x 6         | CFM   | 55   | 65   | 75   | 90   | 120  | 140  | 195  |
| Ak .13        | Throw | 3.0  | 4.0  | 5.0  | 6.0  | 7.0  | 9.0  | 12.0 |
| 8 x 8         | CFM   | 75   | 90   | 105  | 120  | 150  | 180  | 240  |
| Ak .20        | Throw | 4.0  | 5.0  | 6.0  | 7.0  | 9.0  | 12.0 | 16.0 |
| 10 x 10       | CFM   | 115  | 135  | 155  | 175  | 235  | 290  | 395  |
| Ak .29        | Throw | 5.0  | 6.0  | 7.0  | 8.0  | 10.0 | 14.0 | 20.0 |
| 12 x 12       | CFM   | 170  | 210  | 255  | 300  | 380  | 470  | 610  |
| Ak .42        | Throw | 6.0  | 7.0  | 8.0  | 10.0 | 13.0 | 17.0 | 23.0 |
| 14 x 14       | CFM   | 250  | 305  | 360  | 410  | 505  | 610  | 800  |
| Ak .59        | Throw | 7.0  | 9.0  | 11.0 | 13.0 | 16.0 | 19.0 | 27.0 |

A503MS/A503OB  
Three-Way Diffuser

| Face Velocity |           | 400     | 500      | 600      | 700      | 900      | 1100      | 1500      |
|---------------|-----------|---------|----------|----------|----------|----------|-----------|-----------|
| Pressure Loss |           | .010    | .016     | .022     | .031     | .050     | .075      | .140      |
| 6 x 6         | CFM       | 55      | 65       | 75       | 90       | 120      | 140       | 195       |
| Ak .13        | Throw L/S | 3.5/2.5 | 4.0/3.0  | 5.0/3.5  | 5.5/4.0  | 7.0/5.0  | 9.0/6.0   | 12.0/9.0  |
| 8 x 8         | CFM       | 75      | 90       | 105      | 120      | 150      | 180       | 240       |
| Ak .20        | Throw L/S | 4.0/2.0 | 5.0/2.5  | 6.0/3.5  | 7.0/4.0  | 8.0/4.5  | 10.0/5.5  | 12.0/7.0  |
| 10 x 10       | CFM       | 115     | 135      | 155      | 175      | 235      | 290       | 395       |
| Ak .29        | Throw L/S | 5.0/3.0 | 7.0/4.0  | 8.0/4.5  | 10.0/5.5 | 12.0/7.0 | 14.0/8.5  | 18.0/10.5 |
| 12 x 12       | CFM       | 170     | 210      | 255      | 300      | 380      | 470       | 610       |
| Ak .42        | Throw L/S | 7.0/4.0 | 8.5/4.5  | 10.0/5.5 | 12.0/6.5 | 15.0/8.5 | 18.0/10.0 | 23.0/14.0 |
| 14 x 14       | CFM       | 250     | 305      | 360      | 410      | 505      | 610       | 800       |
| Ak .59        | Throw L/S | 8.0/5.5 | 10.0/6.0 | 11.5/7.0 | 13.0/7.5 | 15.5/9.0 | 20.0/11.0 | 27.0/16.0 |

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| <NC 20                                                                              | NC 20-30                                                                            | NC 30-35                                                                            | NC 35-40                                                                            |

Terminal velocity of FPM

NC Noise criteria rating. NC is based on 10db room absorption (ref. 10<sup>-12</sup> watts).

Tested in accordance with ASHRAE 36-72, ADC 1062: GRD84 and ISO 3741.

**Recommended Noise Criteria and Face Velocity Ranges are on page 37**