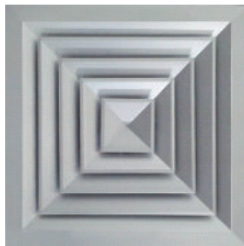
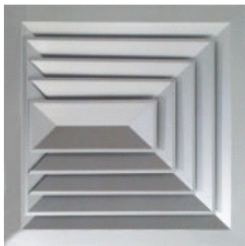
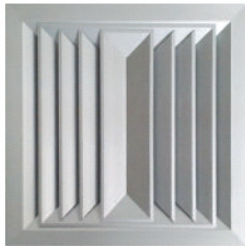
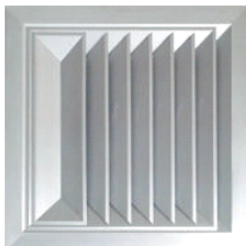




# AIR CONTROL INDUSTRY

## CEILING DIFFUSERS



**QUALITY ASSURANCE**

An ISO 9001:2015 certified company  
Product tested and approved by ETL testing laboratories USA



+971 6 5238 186  
+971 55 176 5322

**MADE IN UAE**

sales@aircontrol.ae  
www.aircontrol.ae

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Air Control multi-directional ceiling diffusers are a popular, versatile choice for many HVAC applications. There is a style, size, pattern to fit every conceivable installation and shape and size of space to be conditioned. The diffuser directional pattern can be selected to deliver the appropriate amount of conditioned air in to the areas, where it is needed.

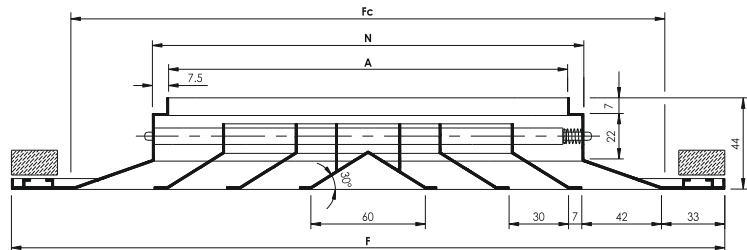
Air Control ceiling diffusers can supply large volumes of conditioned air at acceptable sound levels and pressure drops. The excellent performance is completed by a pleasing appearance that harmonizes with various architectural details, especially in modular ceiling systems.

### DESIGN & KEY FEATURES

- ▶ Air Control diffusers is manufactured from high quality extruded aluminium profile made of 6063 alloy.
- ▶ Flush mounted with different pattern arrangements. Available in both square and rectangular shapes.
- ▶ Core is available in one way, two way, three way and four way discharge .
- ▶ Core is fixed to the frame by the action of spring loaded pins. It is Easily removable to allow for maximum flexibility in installation, maintenance, damper adjustment and pattern Exchange.
- ▶ Supply diffuser have opposed blade dampers for minimum disturbance of air stream.
- ▶ Powder coated to standard RAL codes – 9010 (off white) & 9016 (white).
- ▶ Rear dampers and ancillaries are of aluminium mill finish. Available with black matt finish in colour on request.
- ▶ Foam gasket provided on request.

### AVAILABLE MODELS FOR CEILING DIFFUSER

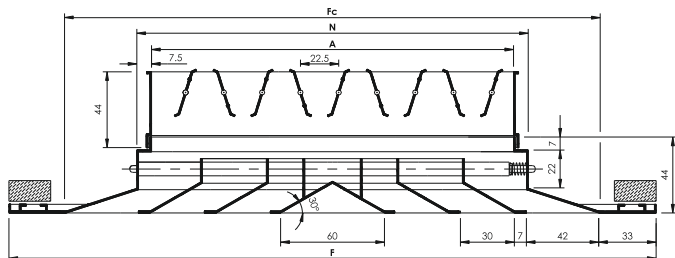
#### AC-RAD 4W (STANDARD)



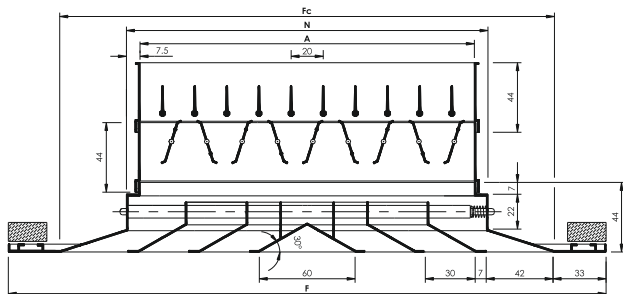


## AC-SAD 4W (STANDARD)

- Supply air diffuser, with opposed blade damper (OBD).
- This model is accompanied by a key operated opposed blade damper. The damper can be operated with a screw driver after removing the internal core, which is used as a supply air terminal.



- Also available with Equalizing grid on request, model AC-SAD EQ 4W (below drawing).
- The assembly of equalizing grid provides uniform air flow and over the neck of the diffuser which ensures reduction in pressure losses, noise level and turbulence.



## AC-SAD 4W (WITH EQUALIZING GRID)



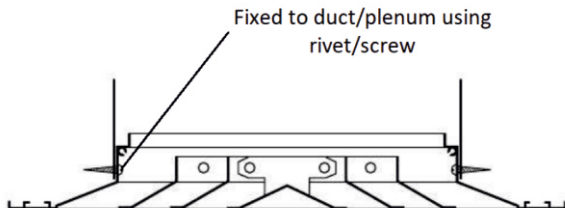
## CEILING DIFFUSERS DIMENSION

| (N) Nominal / Listed Size |         | (A) Actual neck size | (F) Outer frame size | (Fc) False ceiling opening |
|---------------------------|---------|----------------------|----------------------|----------------------------|
| mm                        | Inch    | mm                   | mm                   | mm                         |
| <b>150x150</b>            | 6"x6"   | 135x135              | 295x295              | 230x230                    |
| <b>225x225</b>            | 9"x9"   | 210x210              | 370x370              | 306x306                    |
| <b>300x300</b>            | 12"x12" | 285x285              | 445x445              | 381x381                    |
| <b>375x375</b>            | 15"x15" | 360x360              | 520x520              | 456x456                    |
| <b>450x450</b>            | 18"x18" | 435x435              | 595x595              | 531x531                    |

\*All Dimensions have a tolerance of  $\pm 1$ mm.

\*Other sizes are available on request.

## CEILING DIFFUSER FIXING DETAILS



- ▶ Insert the frame of all Air Control model diffusers into the duct or plenum box.
- ▶ Using rivet or screw fix the frame to the plenum box/duct .
- ▶ The inner core can be removed by pushing the spring laterally and pulling out the other side for fixing the frame and maintenance.



# SUPPLY AIR DIFFUSER AIR FLOW DATA

## MODEL – AC-SAD 4W

| SIZE      | A eff.<br>(m <sup>2</sup> ) | V <sub>a</sub> Ft/min<br>ΔP 1/2"wg  | 200 (1.0)                       | 250 (1.25)                      | 300 (1.5)                       | 350 (1.75)                      | 400 (2.0)                       | 450 (2.25)                      | 500 (2.5)                       | 550 (2.75)                       | 600 (3.0)                        | 650 (3.25)                       | 700 (3.5)                        |
|-----------|-----------------------------|-------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| mm        | Inch                        |                                     | 0.019 (5.1)                     | 0.031 (8.1)                     | 0.047 (12)                      | 0.063 (16)                      | 0.082 (21)                      | 0.094 (24)                      | 0.129 (33)                      | 0.141 (36)                       | 0.184 (47)                       | 0.207 (53)                       | 0.250 (64)                       |
| 150 x 150 | 6" x 6"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 23 (48)<br>0.6-0.9-1.6<br><15   | 29 (61)<br>0.7-1.0-2.2<br><15   | 34 (73)<br>0.9-1.2-2.8<br><15   | 40 (85)<br>1.0-1.3-3.1<br><15   | 46 (97)<br>1.1-1.5-3.5<br>16    | 51 (109)<br>1.2-1.7-3.6<br>19   | 57 (121)<br>1.4-1.9-3.8<br>21   | 63 (133)<br>1.5-2.0-4.0<br>24    | 69 (145)<br>1.7-2.0-4.3<br>26    | 74 (157)<br>1.9-3.1-4.4<br>28    | 80 (170)<br>2.1-3.3-4.6<br>31    |
| 200 x 200 | 8" x 8"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 41 (86)<br>0.8-1.3-2.2<br><15   | 51 (108)<br>0.9-1.4-2.4<br><15  | 61 (129)<br>1.0-1.5-2.6<br><15  | 71 (151)<br>1.2-1.6-3.2<br>15   | 81 (172)<br>1.5-1.8-3.8<br>17   | 91 (194)<br>1.6-2.0-4.0<br>20   | 102 (217)<br>1.7-2.1-4.4<br>22  | 112 (237)<br>1.9-2.4-4.6<br>25   | 122 (258)<br>2.1-3.1-5.1<br>27   | 132 (280)<br>2.3-3.5-5.2<br>29   | 142 (301)<br>2.5-3.7-5.4<br>32   |
| 225 x 225 | 9" x 9"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 51 (109)<br>0.7-1.2-3.2<br><15  | 64 (136)<br>0.8-1.3-3.4<br><15  | 77 (163)<br>1.0-1.5-3.6<br><15  | 90 (191)<br>1.2-1.6-3.8<br>15   | 103 (218)<br>1.4-2.0-4.5<br>18  | 116 (245)<br>1.6-2.3-4.6<br>21  | 129 (272)<br>1.8-2.4-4.7<br>24  | 141 (300)<br>2.0-2.8-5.0<br>28   | 154 (327)<br>2.3-3.0-5.3<br>31   | 167 (354)<br>2.5-3.6-5.4<br>33   | 180 (381)<br>2.8-4.0-5.6<br>35   |
| 300 x 300 | 12"x12"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 91 (194)<br>1.1-1.7-3.3<br><15  | 114 (242)<br>1.4-2.0-3.8<br><15 | 137 (291)<br>1.7-2.3-4.5<br><15 | 160 (339)<br>1.8-2.4-4.6<br>15  | 183 (388)<br>2.0-2.5-4.8<br>19  | 206 (436)<br>2.2-3.0-5.1<br>23  | 229 (484)<br>2.4-3.2-5.5<br>27  | 251 (533)<br>2.7-4.0-5.7<br>30   | 274 (581)<br>3.0-4.4-6.0<br>34   | 297 (630)<br>3.3-4.7-6.4<br>36   | 320 (678)<br>3.6-5.0-6.6<br>37   |
| 375 x 375 | 15"x15"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 143 (303)<br>1.5-2.0-3.8<br><15 | 179 (378)<br>1.7-2.4-4.2<br><15 | 214 (454)<br>2.0-2.8-4.7<br>17  | 250 (530)<br>2.2-3.2-5.1<br>22  | 286 (605)<br>2.5-3.0-5.6<br>26  | 321 (681)<br>2.9-4.0-5.8<br>31  | 357 (757)<br>3.1-4.3-6.1<br>35  | 393 (832)<br>3.5-4.5-6.4<br>39   | 429 (908)<br>3.9-5.0-6.8<br>40   | 464 (984)<br>4.2-5.5-7.1<br>41   | 500 (1055)<br>4.5-5.7-7.5<br>42  |
| 450 x 450 | 18"x18"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 206 (436)<br>1.7-2.3-4.5<br><15 | 257 (545)<br>1.9-2.8-4.9<br><15 | 309 (654)<br>2.2-3.2-5.4<br>24  | 360 (763)<br>2.6-4.0-5.7<br>29  | 411 (872)<br>3.2-4.5-6.3<br>33  | 463 (981)<br>3.4-4.6-6.5<br>34  | 514 (1090)<br>3.7-4.8-6.7<br>38 | 566 (1199)<br>4.0-5.1-7.1<br>40  | 617 (1308)<br>4.5-5.7-7.2<br>43  | 669 (1417)<br>4.8-5.9-8.3<br>45  | 720 (1526)<br>5.1-6.3-8.7<br>48  |
| 500 x 500 | 20"x20"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 254 (538)<br>1.8-2.4-4.8<br><15 | 318 (673)<br>2.1-2.5-5.2<br>19  | 381 (807)<br>2.4-2.6-5.6<br>24  | 445 (942)<br>2.7-2.8-5.8<br>29  | 508 (1077)<br>3.3-3.4-6.2<br>35 | 572 (1211)<br>3.5-4.7-6.6<br>37 | 635 (1346)<br>3.9-5.0-6.9<br>41 | 699 (1480)<br>4.2-5.2-7.3<br>44  | 762 (1615)<br>4.5-5.5-7.7<br>46  | 826 (1749)<br>4.8-5.7-7.9<br>49  | 889 (1884)<br>5.0-6.0-8.3<br>50  |
| 525 x 525 | 21"x21"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 281 (595)<br>1.9-2.9-4.8<br><15 | 351 (744)<br>2.3-3.2-5.2<br>20  | 421 (893)<br>2.8-3.6-5.6<br>24  | 492 (1042)<br>3.1-4.0-6.0<br>30 | 562 (1191)<br>3.6-4.7-6.5<br>36 | 632 (1339)<br>3.9-4.9-6.7<br>38 | 702 (1488)<br>4.3-5.2-7.2<br>41 | 773 (1637)<br>4.5-5.4-7.5<br>43  | 843 (1786)<br>4.8-5.8-8.3<br>45  | 913 (1935)<br>5.1-6.1-8.7<br>48  | 983 (2084)<br>5.4-6.4-9.1<br>50  |
| 600 x 600 | 24"x24"                     | L/S (CFM)<br>Th. (m)<br>Noise Level | 366 (775)<br>2.3-3.2-5.0<br>17  | 457 (969)<br>2.6-3.5-5.9<br>22  | 549 (1163)<br>3.3-4.5-6.3<br>27 | 640 (1356)<br>3.6-4.7-6.6<br>31 | 732 (1550)<br>4.2-5.1-7.2<br>36 | 823 (1744)<br>4.4-5.3-7.3<br>39 | 914 (1938)<br>4.6-5.5-7.8<br>41 | 1006 (2131)<br>4.8-5.7-8.0<br>44 | 1097 (2325)<br>5.0-5.9-8.7<br>46 | 1189 (2519)<br>5.1-6.2-9.1<br>49 | 1280 (2713)<br>5.3-6.4-9.5<br>52 |

Noise level values are based on 10 db room attenuation.

- S : Supply Air (Damper is fully open).
- R : Return Air.
- A<sub>eff</sub> : Effective Area.
- V<sub>a</sub> : Neck Velocity.
- ΔP : Total Pressure Drop.
- Th. : Throw Distance measured at Terminal Velocity W = 0.75, 0.50 & 0.25 m/s respectively.

Correction Multipliers and Values :

| Damper Opening<br>Position | Noise Level<br>(Additional) | Pressure Drop ΔP<br>(Multiplier) |
|----------------------------|-----------------------------|----------------------------------|
| 25 % open                  | + 10 db                     | x 2.4                            |
| 50 % open                  | + 5 db                      | x 1.0                            |
| 100 % open                 | + 0 db                      | x 1.0                            |





# RETURN AIR DIFFUSER AIR FLOW DATA

## MODEL – AC-RAD 4W

| SIZE<br>mm | SIZE<br>inch | A <sub>gr</sub><br>(m <sup>2</sup> ) | V <sub>gr</sub> (m/s)<br>Δ P (Pa) | 200 (1.0)<br>0.019 (.5) | 250 (1.25)<br>0.031 (.8) | 300 (1.5)<br>0.047 (1.2) | 350 (1.75)<br>0.063 (1.6) | 400 (2.0)<br>0.082 (2.1) | 450 (2.25)<br>0.094 (2.4) | 500 (2.5)<br>0.129 (3.3) | 550 (2.75)<br>0.141 (3.6) | 600 (3.0)<br>0.164 (4.2) | 650 (3.25)<br>0.207 (5.3) | 700 (3.5)<br>0.250 (6.4) |
|------------|--------------|--------------------------------------|-----------------------------------|-------------------------|--------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| 225 x 150  | 9" x 6"      | L/S (CFM)                            | Th. (mm)                          | 35 (74)                 | 43 (91)                  | 52 (110)                 | 60 (127)                  | 70 (148)                 | 79 (167)                  | 91 (193)                 | 103 (218)                 | 111 (235)                | 120 (254)                 | 130 (284)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 1.1-1.6-4.2             | 1.3-2.5-4.3              | 1.6-3.7-4.6              | 2.3-3.9-5.0               | 3.2-4.5-5.5              | 3.6-4.7-5.6               | 4.0-5.0-7.0              | 4.5-5.6-7.8               | 5.0-6.3-8.2              | 5.5-6.9-9.4               | 6.0-7.4-10.4             |
|            |              | Noise Level                          |                                   | <15                     | <15                      | 15                       | 17                        | 20                       | 23                        | 26                       | 28                        | 31                       | 34                        | 37                       |
| 300 x 150  | 12" x 6"     | L/S (CFM)                            | Th. (mm)                          | 47 (100)                | 49 (104)                 | 70 (148)                 | 82 (174)                  | 95 (201)                 | 105 (222)                 | 120 (254)                | 130 (275)                 | 143 (303)                | 156 (330)                 | 168 (356)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 1.4-1.9-4.5             | 1.7-2.4-4.7              | 2.1-3.9-5.0              | 2.7-4.2-5.5               | 3.6-4.5-6.0              | 3.7-4.6-5.5               | 4.0-5.0-7.0              | 4.2-4.8-7.1               | 4.5-5.6-7.8              | 4.7-5.7-7.9               | 5.0-6.3-8.2              |
|            |              | Noise Level                          |                                   | <15                     | <15                      | 16                       | 19                        | 22                       | 25                        | 28                       | 31                        | 34                       | 36                        | 37                       |
| 375 x 150  | 15" x 6"     | L/S (CFM)                            | Th. (mm)                          | 60 (127)                | 75 (159)                 | 90 (191)                 | 105 (222)                 | 120 (254)                | 135 (286)                 | 150 (318)                | 165 (350)                 | 180 (381)                | 195 (413)                 | 210 (445)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 1.6-2.4-4.7             | 1.9-3.2-5.1              | 2.3-4.1-5.4              | 2.9-4.4-5.8               | 3.6-4.7-6.3              | 3.8-4.8-6.6               | 4.0-5.0-7.0              | 4.3-5.1-7.3               | 4.5-5.6-7.8              | 4.8-5.6-7.7               | 5.0-6.3-8.2              |
|            |              | Noise Level                          |                                   | <15                     | <15                      | 16                       | 20                        | 22                       | 26                        | 28                       | 31                        | 34                       | 36                        | 38                       |
| 450 x 150  | 18" x 6"     | L/S (CFM)                            | Th. (mm)                          | 70 (148)                | 87 (184)                 | 105 (222)                | 123 (261)                 | 140 (297)                | 157 (333)                 | 175 (371)                | 192 (407)                 | 210 (445)                | 223 (473)                 | 245 (519)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 1.7-2.5-4.7             | 2.1-3.3-5.1              | 2.5-4.1-5.6              | 3.2-4.4-6.1               | 3.9-4.8-6.6              | 4.0-4.9-7.0               | 4.1-5.0-7.5              | 4.5-5.3-7.6               | 4.8-5.7-7.8              | 5.0-6-8.1                 | 5.1-6-8.5                |
|            |              | Noise Level                          |                                   | <15                     | <15                      | 16                       | 20                        | 23                       | 27                        | 30                       | 33                        | 35                       | 37                        | 40                       |
| 300 x 225  | 12" x 9"     | L/S (CFM)                            | Th. (mm)                          | 70 (148)                | 87 (184)                 | 105 (222)                | 123 (261)                 | 140 (297)                | 157 (333)                 | 175 (371)                | 192 (407)                 | 210 (445)                | 223 (473)                 | 245 (519)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 1.8-2.5-4.8             | 2.2-3.5-5.2              | 2.6-4.2-5.7              | 3.2-4.5-6.2               | 3.9-4.8-6.6              | 4.0-4.9-7.1               | 4.2-5.1-7.6              | 4.6-5.4-7.7               | 5.0-5.8-7.9              | 5.1-6-8.2                 | 5.2-6-8.6                |
|            |              | Noise Level                          |                                   | <15                     | <15                      | 16                       | 20                        | 23                       | 27                        | 30                       | 33                        | 35                       | 37                        | 40                       |
| 375 x 225  | 15" x 9"     | L/S (CFM)                            | Th. (mm)                          | 87 (184)                | 110 (233)                | 131 (278)                | 156 (331)                 | 177 (375)                | 199 (422)                 | 220 (466)                | 243 (515)                 | 265 (562)                | 287 (606)                 | 310 (657)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 1.9-2.9-5.1             | 2.3-3.6-5.4              | 2.8-4.4-5.9              | 3.4-4.8-6.4               | 4.1-5.1-6.9              | 4.3-5.2-7.3               | 4.5-5.4-7.8              | 4.7-5.7-8.1               | 5.1-6-8.4                | 5.2-6-8.6                 | 5.3-6-9.0                |
|            |              | Noise Level                          |                                   | <15                     | <15                      | 18                       | 21                        | 24                       | 27                        | 31                       | 34                        | 37                       | 39                        | 41                       |
| 450 x 225  | 18" x 9"     | L/S (CFM)                            | Th. (mm)                          | 105 (222)               | 132 (280)                | 160 (339)                | 186 (394)                 | 213 (451)                | 240 (509)                 | 267 (566)                | 294 (623)                 | 320 (678)                | 328 (695)                 | 375 (795)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 2.3-3.5-5.1             | 2.7-3.9-5.7              | 3.1-4.5-6.3              | 3.7-4.9-6.7               | 4.2-5.1-7.2              | 4.5-5.6-7.6               | 4.8-5.7-8.1              | 5.0-5.9-8.2               | 5.1-6-8.4                | 5.3-6-9.0                 | 5.6-6-9.7                |
|            |              | Noise Level                          |                                   | <15                     | <15                      | 18                       | 22                        | 25                       | 28                        | 32                       | 37                        | 37                       | 40                        | 43                       |
| 525 x 225  | 21" x 9"     | L/S (CFM)                            | Th. (mm)                          | 125 (265)               | 157 (333)                | 190 (403)                | 221 (468)                 | 253 (536)                | 285 (604)                 | 317 (672)                | 350 (742)                 | 381 (807)                | 413 (875)                 | 445 (943)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 2.4-3.5-5.3             | 3.0-4.1-5.8              | 3.5-4.7-6.5              | 3.9-5.0-6.9               | 4.4-5.4-7.4              | 4.7-5.7-7.8               | 5.0-6-8.3                | 5.1-6-8.5                 | 5.3-6-8.9                | 5.4-6-9.4                 | 5.6-7-10                 |
|            |              | Noise Level                          |                                   | <15                     | <15                      | 19                       | 22                        | 26                       | 29                        | 33                       | 35                        | 38                       | 40                        | 43                       |
| 375 x 300  | 15" x 12"    | L/S (CFM)                            | Th. (mm)                          | 113 (239)               | 143 (303)                | 174 (369)                | 204 (432)                 | 235 (498)                | 265 (562)                 | 296 (627)                | 326 (691)                 | 357 (756)                | 387 (820)                 | 418 (886)                |
|            |              | L/S (CFM)                            | Th. (mm)                          | 2.4-3.5-5.3             | 2.9-4.0-5.7              | 3.5-4.7-6.5              | 3.9-5.0-6.8               | 4.4-5.4-7.4              | 4.5-5.6-7.8               | 4.8-5-8.2                | 5.1-5-9.6                 | 5.3-6-8.9                | 5.4-6-9.3                 | 5.6-6-9.8                |
|            |              | Noise Level                          |                                   | <15                     | 15                       | 20                       | 23                        | 26                       | 29                        | 33                       | 35                        | 38                       | 40                        | 43                       |
| 450 x 300  | 18" x 12"    | L/S (CFM)                            | Th. (mm)                          | 140 (297)               | 175 (371)                | 210 (445)                | 245 (519)                 | 280 (593)                | 315 (667)                 | 350 (742)                | 385 (816)                 | 420 (890)                | 455 (964)                 | 490 (1038)               |
|            |              | L/S (CFM)                            | Th. (mm)                          | 2.5-3.5-5.7             | 3.2-4.3-6.2              | 3.9-4.8-6.9              | 4.1-5-7.4                 | 4.4-5-7.9                | 4.7-5-9.3                 | 5.0-6-8.7                | 5.4-6-9.0                 | 5.8-7-10.4               | 5.9-7-10.8                | 6.0-7-10.4               |
|            |              | Noise Level                          |                                   | <15                     | 15                       | 20                       | 22                        | 26                       | 30                        | 33                       | 36                        | 39                       | 42                        | 44                       |
| 525 x 300  | 21" x 12"    | L/S (CFM)                            | Th. (mm)                          | 163 (345)               | 205 (434)                | 252 (534)                | 290 (615)                 | 330 (699)                | 374 (793)                 | 413 (879)                | 460 (975)                 | 500 (1060)               | 542 (1148)                | 585 (1240)               |
|            |              | L/S (CFM)                            | Th. (mm)                          | 3.0-4-5.7               | 3.7-4-6.2                | 4.3-5-7.4                | 4.8-5-8.2                 | 5.1-6-8.5                | 5.4-6-9.0                 | 5.7-6-10.1               | 6.1-7-10.4                | 6.4-7-10.7               | 6.7-7-11.0                | 6.9-7-11.7               |
|            |              | Noise Level                          |                                   | <15                     | 16                       | 20                       | 24                        | 27                       | 31                        | 34                       | 37                        | 40                       | 42                        | 45                       |

- ▶ Noise criteria (NC) based on a room attenuation of 10 db.
- ▶ Neck velocity is measured in m/s.
- ▶ Static pressure (Ps) loss across the diffuser in mm of H<sub>2</sub>O.





## LOUVRED FACE, MULTI DIRECTIONAL WITH REMOVABLE CORE

## Ordering Data

- **Available Surface Finishes For Diffusers :**
  - Natural / Matt Silver Anodized .
  - Powder Coating (Standard Colors are white RAL 9010 / 9016, other optional colors if required to be provided in RAL - No. only and charged extra).
  - Aluminium in Mill Finish.
  - Other Special Finishes ( on request if available ).
- **Available Surface Finishes For Opposed Blade Dampers & Equalizing Grids :**
  - Aluminium in Mill Finish (standard).
  - Matt Black Powder Coating (optional).
- **Ordering Specifications :**

## Specify :

1. Diffuser Description (Supply, Return, Extract, Exhaust, Dummy, Fresh Air , .....etc.).
2. Model / Type (Specify Pattern Arrangement).
3. Shape (Square or Rectangular).
4. Opposed Blade Damper Surface Finish (only mention if required in Black color).
5. Nominal / Neck size.
6. Quantity.
7. Diffuser Surface Finish.
8. RAL - No. (only mention if powder coating surface finish is required).
9. Optional Accessories ( Equalizing Grid, Gasket, Adaptor,..... or others).

## Example 1 :

| 1   | 2  | 3 | 4  | 5                              | 6  | 7                 | 8    | 9                     |
|-----|----|---|----|--------------------------------|----|-------------------|------|-----------------------|
| SAD | 4W | S | BD | 12" x 12"<br>300 x 300<br>(mm) | 10 | Powder<br>Coating | 9016 | With<br>Rubber Gasket |

## Example 2 :

| 1   | 2  | 3 | 4 | 5                             | 6 | 7                  | 8 | 9 |
|-----|----|---|---|-------------------------------|---|--------------------|---|---|
| SAD | 3W | R | - | 18" x 9"<br>450 x 225<br>(mm) | 5 | Silver<br>Anodized | - | - |

## Example 3 :

| 1   | 2  | 3 | 4 | 5                              | 6  | 7                 | 8                  | 9 |
|-----|----|---|---|--------------------------------|----|-------------------|--------------------|---|
| RAD | 4W | S | - | 18" x 18"<br>450 x 450<br>(mm) | 15 | Powder<br>Coating | 7045<br>(Optional) | - |