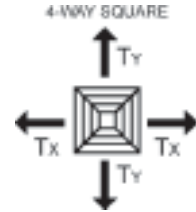


Series 1400/AL1400 Square/Rectangular Ceiling Diffuser

Four-Way Square

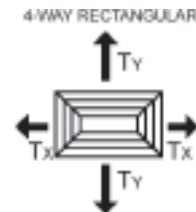
| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|----------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 6 x 6 | CFM | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 |
| Ak .100 | Throw X/Y | 2-3/2-3 | 2-3/2-3 | 2-4/2-4 | 2-4/2-4 | 3-5/3-5 | 3-5/3-5 | 4-6/4-6 | 4-8/4-8 | 5-8/5-8 | 5-9/5-9 | 6-11/6-11 |
| 9 x 9 | CFM | 110 | 135 | 155 | 180 | 205 | 225 | 270 | 315 | 360 | 410 | 450 |
| Ak .220 | Throw X/Y | 2-4/2-4 | 2-4/2-4 | 3-5/3-5 | 3-5/3-5 | 4-6/4-6 | 5-8/5-8 | 5-9/5-9 | 6-11/6-11 | 6-12/6-12 | 7-13/7-13 | 8-14/8-14 |
| 12 x 12 | CFM | 200 | 240 | 280 | 320 | 360 | 400 | 480 | 560 | 640 | 725 | 800 |
| Ak .400 | Throw X/Y | 3-5/3-5 | 4-6/4-6 | 4-8/4-8 | 5-8/5-8 | 5-9/5-9 | 6-11/6-11 | 6-12/6-12 | 7-13/7-13 | 8-15/8-15 | 9-17/9-17 | 10-19/10-19 |
| 15 x 15 | CFM | 310 | 375 | 440 | 500 | 565 | 625 | 750 | 875 | 1000 | 1125 | 1250 |
| Ak .620 | Throw X/Y | 4-6/4-6 | 4-8/4-8 | 5-9/5-9 | 6-11/6-11 | 6-11/6-11 | 6-12/6-12 | 8-15/8-15 | 10-18/10-18 | 10-19/10-19 | 12-21/12-21 | 13-23/13-23 |
| 18 x 18 | CFM | 450 | 540 | 630 | 720 | 810 | 900 | 1080 | 1260 | 1440 | 1620 | 1800 |
| Ak .900 | Throw X/Y | 4-8/4-8 | 5-9/5-9 | 5-11/5-11 | 6-12/6-12 | 7-13/7-13 | 8-15/8-15 | 10-17/10-17 | 11-20/11-20 | 13-23/13-23 | 15-27/15-27 | 16-30/16-30 |
| 21 x 21 | CFM | 615 | 740 | 860 | 985 | 1110 | 1230 | 1475 | 1725 | 1970 | 2220 | 2460 |
| Ak 1.230 | Throw X/Y | 5-9/5-9 | 6-11/6-11 | 7-13/7-13 | 8-14/8-14 | 9-15/9-15 | 9-17/9-17 | 11-21/11-21 | 13-25/13-25 | 15-29/15-29 | 17-31/17-31 | 19-35/19-35 |
| 24 x 24 | CFM | 800 | 960 | 1120 | 1275 | 1440 | 1600 | 1925 | 2240 | 2570 | 2890 | 3200 |
| Ak 1.600 | Throw X/Y | 5-11/5-11 | 7-13/7-13 | 7-14/7-14 | 8-15/8-15 | 9-17/9-17 | 10-19/10-19 | 12-23/12-23 | 14-29/14-29 | 16-31/16-31 | 18-35/18-35 | 20-39/20-39 |
| 27 x 27 | CFM | 1010 | 1215 | 1420 | 1615 | 1820 | 2020 | 2430 | 2840 | 3240 | 3650 | 4040 |
| Ak 2.020 | Throw X/Y | 6-12/6-12 | 7-13/7-13 | 8-15/8-15 | 10-18/10-18 | 10-19/10-19 | 12-22/12-22 | 14-27/14-27 | 16-32/16-32 | 18-35/18-35 | 20-38/20-38 | 23-42/23-42 |
| 33 x 33 | CFM | 1370 | 1650 | 1925 | 2200 | 2470 | 2750 | 3300 | 3850 | 4400 | 4950 | 5500 |
| Ak 2.750 | Throw X/Y | 7-13/7-13 | 9-16/9-16 | 10-18/10-18 | 21-21/12-21 | 14-24/14-24 | 16-27/16-27 | 18-33/18-33 | 19-37/19-37 | 23-41/23-41 | 27-46/27-46 | 31-50/31-50 |



Note: The minimum Throw Dimension is based on a terminal velocity of 200 FPM. The maximum Throw Dimension is based on a terminal velocity of 100 FPM.

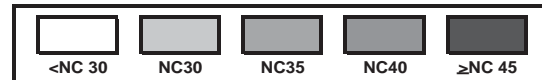
Four-Way Rectangular

| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|----------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 9 x 6 | CFM | 75 | 90 | 105 | 120 | 135 | 150 | 180 | 210 | 240 | 270 | 300 |
| Ak .150 | Throw X/Y | 1-3/2-4 | 1-3/3-5 | 2-4/3-5 | 2-4/4-6 | 3-5/4-6 | 3-5/4-8 | 4-6/5-9 | 4-6/5-9 | 4-8/7-13 | 5-9/8-15 | 6-11/8-15 |
| 12 x 6 | CFM | 100 | 120 | 140 | 160 | 180 | 200 | 240 | 280 | 320 | 360 | 400 |
| Ak .200 | Throw X/Y | 1-3/3-5 | 1-3/4-6 | 2-4/4-8 | 2-4/4-8 | 2-4/5-9 | 3-5/6-11 | 4-6/7-13 | 4-8/8-15 | 4-8/8-15 | 5-9/10-18 | 6-11/11-21 |
| 12 x 9 | CFM | 150 | 180 | 210 | 240 | 270 | 300 | 360 | 420 | 480 | 540 | 600 |
| Ak .300 | Throw X/Y | 2-4/3-5 | 2-4/3-5 | 3-5/4-6 | 4-6/4-8 | 4-7/5-10 | 4-8/6-11 | 5-9/6-12 | 6-11/7-13 | 7-13/9-17 | 7-13/10-18 | 8-14/11-19 |
| 15 x 9 | CFM | 185 | 225 | 265 | 300 | 340 | 375 | 450 | 525 | 600 | 675 | 750 |
| Ak .370 | Throw X/Y | 2-4/4-6 | 2-4/4-6 | 3-5/5-9 | 4-6/6-11 | 4-6/6-12 | 4-8/8-14 | 5-9/8-15 | 5-9/9-17 | 6-12/11-21 | 7-13/13-25 | 7-13/13-25 |
| 18 x 9 | CFM | 225 | 270 | 315 | 360 | 405 | 450 | 540 | 630 | 720 | 810 | 900 |
| Ak .450 | Throw X/Y | 2-4/4-6 | 2-4/5-9 | 3-5/6-11 | 4-6/6-12 | 4-6/8-14 | 4-8/8-15 | 5-9/10-19 | 5-10/11-23 | 6-12/13-25 | 8-14/15-29 | 10-17/17-32 |
| 21 x 9 | CFM | 265 | 320 | 370 | 425 | 475 | 530 | 635 | 740 | 850 | 955 | 1060 |
| Ak .530 | Throw X/Y | 2-4/5-9 | 2-4/6-11 | 3-5/8-14 | 4-6/8-15 | 4-8/10-18 | 4-8/10-19 | 5-9/11-21 | 6-17/13-25 | 8-13/16-31 | 9-15/19-35 | 10-17/21-38 |
| 15 x 12 | CFM | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Ak .500 | Throw X/Y | 3-5/4-6 | 3-5/4-8 | 4-6/5-9 | 4-8/6-11 | 5-9/6-12 | 6-11/7-13 | 6-12/8-15 | 7-13/10-18 | 8-15/11-21 | 10-18/13-23 | 12-21/14-27 |
| 18 x 12 | CFM | 295 | 355 | 415 | 475 | 535 | 595 | 715 | 835 | 950 | 1070 | 1190 |
| Ak .590 | Throw X/Y | 2-4/4-8 | 3-5/5-9 | 4-6/6-11 | 4-8/7-13 | 5-9/8-14 | 6-11/8-15 | 6-12/10-18 | 8-14/11-21 | 9-16/13-23 | 10-18/15-27 | 12-21/17-31 |
| 21 x 12 | CFM | 345 | 415 | 485 | 555 | 625 | 690 | 830 | 970 | 1100 | 1240 | 1375 |
| Ak .690 | Throw X/Y | 3-5/5-9 | 3-5/6-11 | 4-6/7-13 | 4-8/8-14 | 4-8/8-15 | 5-9/10-18 | 6-11/11-21 | 7-13/14-26 | 8-15/16-29 | 9-17/17-31 | 10-19/19-35 |
| 24 x 12 | CFM | 400 | 480 | 560 | 640 | 720 | 800 | 960 | 1140 | 1280 | 1440 | 1600 |
| Ak .800 | Throw X/Y | 2-4/6-11 | 4-6/7-13 | 4-6/8-14 | 4-8/9-16 | 4-8/10-18 | 5-9/11-21 | 6-12/14-26 | 8-14/15-29 | 9-17/17-31 | 10-19/19-35 | 10-19/21-39 |
| 18 x 15 | CFM | 375 | 450 | 525 | 600 | 675 | 750 | 900 | 1050 | 1200 | 1350 | 1500 |
| Ak .75 | Throw X/Y | 4-6/4-8 | 4-8/5-9 | 5-9/6-11 | 6-11/6-12 | 6-12/8-14 | 7-13/8-15 | 8-15/10-18 | 9-17/10-19 | 10-19/13-23 | 12-22/15-26 | 14-25/17-29 |
| 24 x 15 | CFM | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| Ak 1.000 | Throw X/Y | 4-6/6-11 | 4-8/6-12 | 5-9/8-14 | 6-11/9-17 | 6-12/10-18 | 7-13/11-21 | 8-15/13-25 | 10-18/15-29 | 11-21/17-32 | 13-23/20-36 | 15-27/22-39 |
| 24 x 18 | CFM | 600 | 720 | 840 | 960 | 1080 | 1200 | 1440 | 1680 | 1920 | 2160 | 2400 |
| Ak 1.200 | Throw X/Y | 4-8/6-11 | 5-9/6-12 | 6-11/7-14 | 6-12/8-15 | 7-14/10-19 | 8-15/11-21 | 10-18/13-23 | 11-21/15-27 | 13-25/18-34 | 15-30/21-37 | 16-32/23-41 |
| 33 x 21 | CFM | 960 | 1150 | 1340 | 1530 | 1725 | 1920 | 2300 | 2690 | 3070 | 3450 | 3840 |
| Ak 1.920 | Throw X/Y | 4-8/8-15 | 6-11/10-18 | 7-13/12-22 | 8-14/13-25 | 8-15/15-29 | 10-18/17-31 | 12-21/21-35 | 14-26/24-39 | 16-29/26-43 | 17-31/29-47 | 21-39/35-56 |
| 30 x 24 | CFM | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2400 | 2800 | 3200 | 3600 | 4000 |
| Ak 2.000 | Throw X/Y | 6-11/7-13 | 6-12/8-15 | 8-14/10-18 | 8-15/11-21 | 10-18/13-23 | 10-19/14-26 | 12-23/16-29 | 15-28/19-35 | 16-31/21-39 | 19-35/24-43 | 22-40/29-51 |



Note: The minimum Throw Dimension is based on a terminal velocity of 200 FPM. The maximum Throw Dimension is based on a terminal velocity of 100 FPM.

| Ceiling Height in Feet | Max. Rec. Cooling Temp. Differential | Max. Rec. CFM Per Diff. | | | |
|------------------------|--------------------------------------|-------------------------|-----------|---------|---------|
| | | 1400/AL1400 | | | |
| | | Four-Way | Three-Way | Two-Way | One-Way |
| 7 | 15° | 400 | 300 | 200 | 100 |
| 8 | 20° | 600 | 450 | 300 | 150 |
| 9 | 25° | 1200 | 900 | 600 | 300 |
| 10 | 25° | 1800 | 1350 | 900 | 450 |
| 12 | 30° | 3200 | 2400 | 1600 | 800 |
| 14 | 30° | 4800 | 3600 | 2400 | 1200 |
| 16 | 30° | 6000 | 4500 | 3000 | 1500 |

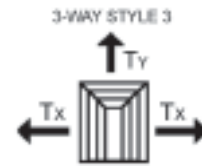


See Description of NC Criteria on page 96.

Series 1400/AL1400 Square/Rectangular Ceiling Diffuser

Three-Way Style 3

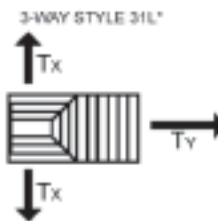
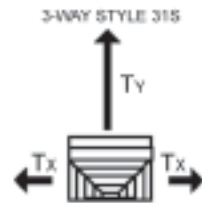
| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|---------------|-----------|----------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 6 x 6 | CFM | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 |
| Ak .100 | Throw X/Y | 2-4/1-2 | 2-4/1-2 | 3-5/2-3 | 3-5/2-3 | 4-7/2-4 | 4-7/2-4 | 5-9/3-6 | 6-10/3-6 | 6-11/4-7 | 6-11/4-7 | 7-13/4-8 |
| 9 x 9 | CFM | 110 | 135 | 155 | 180 | 205 | 225 | 270 | 315 | 360 | 410 | 450 |
| Ak .220 | Throw X/Y | 2-4/2-3 | 3-6/2-3 | 4-7/2-4 | 4-8/2-4 | 5-9/3-6 | 5-9/3-6 | 6-12/4-7 | 7-13/5-9 | 9-15/6-10 | 10-18/6-11 | 11-20/7-12 |
| 12 x 12 | CFM | 200 | 240 | 280 | 320 | 360 | 400 | 480 | 560 | 640 | 725 | 800 |
| Ak .400 | Throw X/Y | 4-7/2-5 | 5-9/3-6 | 6-10/4-7 | 6-10/4-7 | 6-11/4-8 | 7-13/5-9 | 9-16/6-10 | 12-21/7-12 | 13-22/8-13 | 14-24/8-14 | 16-27/9-15 |
| 15 x 15 | CFM | 310 | 375 | 440 | 500 | 565 | 625 | 750 | 875 | 1000 | 1125 | 1250 |
| Ak .620 | Throw X/Y | 4-8/2-4 | 6-11/4-7 | 7-13/4-7 | 8-14/4-8 | 8-15/5-9 | 9-16/6-10 | 11-19/7-12 | 13-23/9-15 | 15-26/10-18 | 17-29/11-20 | 19-33/12-21 |
| 18 x 18 | CFM | 450 | 540 | 630 | 720 | 810 | 900 | 1080 | 1260 | 1440 | 1620 | 1800 |
| Ak .900 | Throw X/Y | 4-9/3-5 | 6-11/4-7 | 7-13/5-9 | 9-15/6-10 | 10-18/6-11 | 11-20/7-12 | 13-24/9-15 | 15-26/10-18 | 18-32/11-20 | 20-35/12-22 | 23-40/14-25 |
| 21 x 21 | CFM | 615 | 740 | 860 | 985 | 1110 | 1230 | 1475 | 1725 | 1970 | 2220 | 2460 |
| Ak 1.230 | Throw X/Y | 5-11/3-6 | 7-13/4-8 | 11-19/6-11 | 11-20/7-12 | 12-21/8-13 | 13-23/8-14 | 16-29/10-17 | 19-34/11-20 | 21-39/14-23 | 24-42/16-25 | 27-45/18-29 |
| 24 x 24 | CFM | 800 | 960 | 1120 | 1275 | 1440 | 1600 | 1925 | 2240 | 2570 | 2890 | 3200 |
| Ak 1.600 | Throw X/Y | 7-14/5-9 | 9-16/6-11 | 11-19/7-13 | 13-21/8-14 | 14-24/9-15 | 16-27/9-16 | 17-31/11-19 | 21-35/14-24 | 25-39/16-27 | 28-43/18-31 | 32-47/20-33 |
| 27 x 27 | CFM | 1010 | 1215 | 1420 | 1615 | 1820 | 2020 | 2430 | 2840 | 3240 | 3650 | 4040 |
| Ak 2.020 | Throw X/Y | 7-13/4-9 | 9-16/6-11 | 11-20/7-13 | 13-23/9-15 | 14-25/9-16 | 15-27/10-18 | 18-31/12-21 | 22-37/14-25 | 25-41/18-30 | 28-46/19-33 | 31-50/21-36 |



Note: The minimum Throw Dimension is based on a terminal velocity of 170 FPM. The maximum Throw Dimension is based on a terminal velocity of 85 FPM.

Three-Way Style 31S and Style 31L*

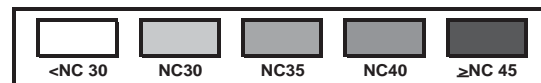
| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|---------------|-----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 9 x 6 | CFM | 75 | 90 | 105 | 120 | 135 | 150 | 180 | 210 | 240 | 270 | 300 |
| Ak .150 | Throw X/Y | 2-3/4-7 | 2-3/4-7 | 2-3/4-7 | 2-4/4-8 | 3-5/5-8 | 3-6/5-9 | 4-7/6-11 | 4-8/7-12 | 6-10/9-15 | 6-11/10-17 | 6-11/11-19 |
| 9 x 9 | CFM | 115 | 135 | 155 | 180 | 200 | 225 | 270 | 315 | 360 | 405 | 450 |
| Ak .220 | Throw X/Y | 1-3/4-7 | 2-3/5-9 | 2-3/6-11 | 2-4/7-12 | 3-6/8-14 | 3-6/9-16 | 4-7/10-18 | 4-8/12-21 | 5-9/14-24 | 6-10/16-28 | 6-11/18-32 |
| 12 x 9 | CFM | 150 | 180 | 210 | 240 | 270 | 300 | 360 | 420 | 480 | 540 | 600 |
| Ak .300 | Throw X/Y | 2-3/4-8 | 2-4/5-9 | 3-6/6-10 | 4-7/7-12 | 4-8/8-14 | 4-8/8-14 | 5-9/9-16 | 6-10/11-20 | 7-12/14-24 | 8-13/15-26 | 9-15/16-28 |
| 12 x 12 | CFM | 200 | 240 | 280 | 320 | 360 | 400 | 480 | 560 | 640 | 720 | 800 |
| Ak .40 | Throw X/Y | 2-3/5-11 | 2-4/7-13 | 3-6/9-15 | 3-6/10-17 | 4-7/11-19 | 4-8/12-21 | 6-10/15-26 | 6-11/18-32 | 7-12/20-34 | 7-13/21-36 | 8-14/24-42 |
| 15 x 15 | CFM | 310 | 375 | 440 | 500 | 565 | 625 | 750 | 875 | 1000 | 1125 | 1250 |
| Ak .620 | Throw X/Y | 2-4/7-13 | 3-6/10-18 | 4-7/11-20 | 4-8/12-21 | 5-9/14-25 | 5-9/14-25 | 6-11/19-34 | 7-13/22-38 | 8-14/25-43 | 9-16/27-44 | 10-18/30-45 |
| 18 x 15 | CFM | 375 | 450 | 525 | 600 | 675 | 750 | 900 | 1050 | 1200 | 1350 | 1500 |
| Ak .750 | Throw X/Y | 3-6/7-13 | 4-7/9-15 | 4-8/9-16 | 5-9/11-20 | 6-10/13-23 | 6-11/15-26 | 7-13/17-30 | 9-16/19-35 | 10-18/22-39 | 11-20/27-40 | 13-25/30-46 |
| 21 x 18 | CFM | 525 | 630 | 735 | 840 | 945 | 1050 | 1260 | 1475 | 1680 | 1890 | 2100 |
| Ak 1.050 | Throw X/Y | 4-7/8-14 | 4-8/10-18 | 5-9/11-20 | 6-10/18-23 | 6-11/14-25 | 7-12/16-28 | 9-15/19-34 | 10-18/22-39 | 11-20/27-40 | 13-23/29-46 | 15-26/33-51 |
| 21 x 21 | CFM | 615 | 740 | 860 | 985 | 1110 | 1230 | 1475 | 1725 | 1970 | 2210 | 2460 |
| Ak 1.230 | Throw X/Y | 3-6/9-17 | 4-8/12-21 | 5-9/16-27 | 6-10/17-30 | 7-11/19-32 | 7-12/21-36 | 9-15/26-40 | 11-19/30-45 | 13-22/34-51 | 15-25/39-56 | 17-28/43-60 |
| 27 x 21 | CFM | 780 | 940 | 1080 | 1250 | 1400 | 1560 | 1870 | 2180 | 2500 | 2800 | 3120 |
| Ak 1.560 | Throw X/Y | 5-9/10-18 | 5-9/11-20 | 6-10/13-22 | 7-12/15-26 | 8-14/18-32 | 9-16/21-36 | 11-19/23-40 | 13-21/25-43 | 15-24/29-47 | 17-29/34-53 | 19-33/38-59 |
| 30 x 24 | CFM | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2400 | 2800 | 3200 | 3500 | 4000 |
| Ak 2.000 | Throw X/Y | 5-9/11-20 | 6-11/13-23 | 7-13/16-27 | 8-14/17-31 | 9-16/20-35 | 10-18/22-40 | 12-21/25-44 | 14-25/31-48 | 16-29/34-53 | 18-32/38-57 | 20-35/43-61 |
| 33 x 27 | CFM | 1230 | 1475 | 1725 | 1970 | 2220 | 2460 | 2950 | 3450 | 3925 | 4425 | 4920 |
| Ak 2.460 | Throw X/Y | 6-10/13-23 | 7-13/17-28 | 8-14/19-33 | 9-16/21-35 | 11-18/23-39 | 12-20/25-44 | 14-25/29-47 | 16-29/33-51 | 18-33/37-56 | 22-37/42-59 | 25-41/47-64 |



*Style 31L not available in square configuration

Note: The minimum Throw Dimension is based on a terminal velocity of 170 FPM. The maximum Throw Dimension is based on a terminal velocity of 85 FPM.

| Ceiling Height in Feet | Max. Rec. Cooling Temp. Differential | Max. Rec. CFM Per Diff. | | | |
|------------------------|--------------------------------------|-------------------------|-----------|---------|---------|
| | | 1400/AL1400 | | | |
| | | Four-Way | Three-Way | Two-Way | One-Way |
| 7 | 15° | 400 | 300 | 200 | 100 |
| 8 | 20° | 600 | 450 | 300 | 150 |
| 9 | 25° | 1200 | 900 | 600 | 300 |
| 10 | 25° | 1800 | 1350 | 900 | 450 |
| 12 | 30° | 3200 | 2400 | 1600 | 800 |
| 14 | 30° | 4800 | 3600 | 2400 | 1200 |
| 16 | 30° | 6000 | 4500 | 3000 | 1500 |



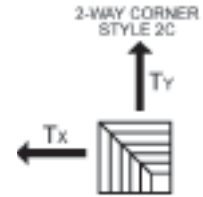
See Description of NC Criteria on page 96.

Recommended Noise Criteria and Face Velocity Ranges are on page 98.

Series 1400/AL1400 Square/Rectangular Ceiling Diffuser

Two-Way Corner Style 2C

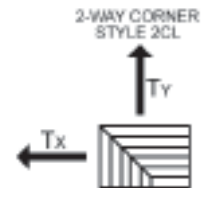
| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|----------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 6 x 6 | CFM | 45 | 55 | 60 | 70 | 80 | 90 | 105 | 125 | 140 | 160 | 180 |
| Ak .090 | Throw X/Y | 1-3/1-3 | 2-5/2-5 | 2-5/2-5 | 3-7/3-7 | 3-7/3-7 | 5-8/5-8 | 5-8/5-8 | 6-11/6-11 | 7-12/7-12 | 8-13/8-13 | 9-14/9-14 |
| 9 x 9 | CFM | 95 | 115 | 135 | 155 | 175 | 195 | 235 | 275 | 315 | 350 | 390 |
| Ak .190 | Throw X/Y | 4-6/4-6 | 4-6/4-6 | 5-7/5-7 | 5-8/5-8 | 6-10/6-10 | 6-11/6-11 | 8-13/8-13 | 9-14/9-14 | 10-16/10-16 | 13-20/13-20 | 14-22/14-22 |
| 12 x 12 | CFM | 175 | 210 | 245 | 280 | 315 | 350 | 420 | 480 | 560 | 635 | 700 |
| Ak .350 | Throw X/Y | 5-7/5-7 | 5-8/5-8 | 6-11/6-11 | 8-13/8-13 | 8-13/8-13 | 9-14/9-14 | 10-16/10-16 | 13-19/13-19 | 14-22/14-22 | 16-26/16-26 | 19-29/19-29 |
| 15 x 15 | CFM | 275 | 330 | 385 | 440 | 495 | 550 | 660 | 775 | 885 | 995 | 1100 |
| Ak .550 | Throw X/Y | 5-9/5-9 | 7-12/7-12 | 8-13/8-13 | 9-14/9-14 | 10-16/10-16 | 11-18/11-18 | 13-21/13-21 | 15-25/15-25 | 19-29/19-29 | 21-33/21-33 | 23-36/23-36 |
| 18 x 18 | CFM | 390 | 470 | 545 | 625 | 700 | 780 | 935 | 1090 | 1250 | 1410 | 1560 |
| Ak .780 | Throw X/Y | 7-12/7-12 | 9-14/9-14 | 10-15/10-15 | 10-16/10-16 | 12-19/12-19 | 14-22/14-22 | 16-25/16-25 | 18-29/18-29 | 21-33/21-33 | 25-38/25-38 | 28-42/28-42 |
| 21 x 21 | CFM | 540 | 650 | 760 | 865 | 975 | 1080 | 1300 | 1515 | 1730 | 1945 | 2160 |
| Ak 1.080 | Throw X/Y | 8-13/8-13 | 10-15/10-15 | 12-18/12-18 | 13-21/13-21 | 15-23/15-23 | 17-28/17-28 | 20-32/20-32 | 22-35/22-35 | 25-39/25-39 | 29-43/29-43 | 32-47/32-47 |
| 24 x 24 | CFM | 705 | 845 | 990 | 1130 | 1270 | 1410 | 1690 | 1950 | 2250 | 2540 | 2820 |
| Ak 1.410 | Throw X/Y | 9-16/9-16 | 11-18/11-18 | 13-21/13-21 | 15-24/15-24 | 17-27/17-27 | 19-29/19-29 | 22-34/22-34 | 25-38/25-38 | 29-42/29-42 | 33-47/33-47 | 37-51/37-51 |
| 27 x 27 | CFM | 880 | 1055 | 1230 | 1410 | 1585 | 1760 | 2110 | 2470 | 2820 | 3170 | 3520 |
| Ak 1.760 | Throw X/Y | 10-17/10-17 | 12-19/12-19 | 14-22/14-22 | 16-26/16-26 | 19-29/19-29 | 21-33/21-33 | 24-37/24-37 | 28-41/28-41 | 32-46/32-46 | 35-50/35-50 | 39-55/39-55 |



Note: The minimum Throw Dimension is based on a terminal velocity of 135 FPM. The maximum Throw Dimension is based on a terminal velocity of 65 FPM.

Two-Way Corner Style 2CR

| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|----------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 9 x 6 | CFM | 65 | 80 | 95 | 105 | 120 | 130 | 160 | 185 | 210 | 240 | 260 |
| Ak .130 | Throw X/Y | 2-4/3-5 | 3-5/4-7 | 4-6/5-8 | 4-6/5-8 | 5-7/6-11 | 5-7/6-11 | 6-9/8-13 | 6-10/9-14 | 7-12/11-16 | 8-13/13-21 | 10-16/16-25 |
| 12 x 6 | CFM | 90 | 105 | 120 | 140 | 160 | 175 | 210 | 245 | 280 | 315 | 350 |
| Ak .170 | Throw X/Y | 2-4/3-6 | 3-5/5-8 | 3-5/6-11 | 4-6/7-12 | 5-7/8-13 | 5-7/9-14 | 5-8/10-15 | 6-11/13-20 | 7-12/15-24 | 8-13/17-26 | 10-15/19-29 |
| 15 x 6 | CFM | 110 | 130 | 155 | 175 | 200 | 220 | 265 | 310 | 350 | 395 | 440 |
| Ak .220 | Throw X/Y | 2-4/5-8 | 3-5/6-10 | 3-5/7-12 | 4-6/8-13 | 5-7/10-15 | 5-8/11-17 | 6-9/13-20 | 6-10/15-24 | 8-12/17-27 | 10-14/20-30 | 11-17/22-34 |
| 12 x 9 | CFM | 130 | 155 | 180 | 210 | 235 | 260 | 310 | 365 | 415 | 470 | 520 |
| Ak .260 | Throw X/Y | 4-6/5-7 | 4-6/5-8 | 5-7/6-10 | 5-8/6-11 | 6-10/8-12 | 6-11/9-14 | 8-13/10-16 | 11-17/14-21 | 19-19/16-24 | 13-20/17-26 | 14-23/19-30 |
| 15 x 9 | CFM | 165 | 195 | 230 | 260 | 295 | 325 | 390 | 460 | 525 | 590 | 650 |
| Ak .320 | Throw X/Y | 4-6/6-10 | 5-7/6-11 | 6-8/8-12 | 6-9/10-14 | 6-11/10-16 | 7-12/12-19 | 9-14/14-22 | 10-15/16-25 | 12-17/19-29 | 13-20/21-33 | 14-22/23-35 |
| 18 x 9 | CFM | 195 | 235 | 275 | 310 | 350 | 390 | 470 | 545 | 625 | 700 | 780 |
| Ak .390 | Throw X/Y | 4-6/6-11 | 5-7/8-13 | 5-7/9-14 | 5-8/10-15 | 6-10/11-18 | 7-12/13-21 | 8-13/16-25 | 9-15/19-29 | 11-17/22-33 | 12-20/23-35 | 14-22/26-39 |
| 21 x 9 | CFM | 230 | 275 | 320 | 365 | 410 | 455 | 545 | 635 | 730 | 820 | 910 |
| Ak .450 | Throw X/Y | 4-6/8-13 | 5-7/10-15 | 6-8/11-17 | 6-9/12-19 | 6-10/13-21 | 6-11/15-24 | 8-13/18-29 | 10-15/22-34 | 12-18/24-38 | 13-21/26-42 | 15-25/30-47 |
| 15 x 12 | CFM | 220 | 260 | 305 | 350 | 390 | 435 | 525 | 610 | 700 | 785 | 870 |
| Ak .430 | Throw X/Y | 5-7/5-8 | 5-8/6-11 | 6-10/8-13 | 7-12/9-14 | 8-13/10-16 | 9-14/12-19 | 11-18/14-22 | 13-20/16-25 | 15-24/19-29 | 16-26/21-32 | 18-29/24-37 |
| 18 x 12 | CFM | 260 | 315 | 370 | 420 | 475 | 525 | 630 | 735 | 840 | 945 | 1050 |
| Ak .520 | Throw X/Y | 4-7/6-11 | 5-8/8-13 | 6-10/9-14 | 7-12/11-17 | 9-14/13-21 | 10-15/14-22 | 12-18/17-26 | 14-20/21-30 | 16-24/23-34 | 18-27/27-38 | 21-31/29-42 |
| 21 x 15 | CFM | 380 | 455 | 530 | 605 | 685 | 760 | 915 | 1060 | 1220 | 1370 | 1520 |
| Ak .760 | Throw X/Y | 6-10/8-13 | 6-11/9-14 | 8-13/11-18 | 9-14/13-20 | 10-16/15-24 | 12-19/16-26 | 13-21/19-29 | 15-26/22-33 | 18-29/25-38 | 21-33/29-44 | 25-38/32-49 |
| 24 x 15 | CFM | 440 | 525 | 615 | 700 | 790 | 875 | 1050 | 1225 | 1400 | 1575 | 1750 |
| Ak .870 | Throw X/Y | 4-9/8-14 | 6-11/10-16 | 8-13/13-20 | 9-14/15-24 | 10-16/16-26 | 12-19/19-29 | 14-22/22-34 | 16-25/25-38 | 19-29/29-44 | 21-32/33-48 | 25-37/37-52 |
| 21 x 18 | CFM | 460 | 550 | 640 | 735 | 825 | 915 | 1100 | 1280 | 1465 | 1645 | 1830 |
| Ak .980 | Throw X/Y | 6-11/8-13 | 8-13/10-15 | 10-15/11-18 | 11-17/12-20 | 12-19/14-22 | 13-21/16-25 | 16-26/19-29 | 19-30/22-34 | 22-34/26-39 | 25-38/29-43 | 27-42/32-48 |
| 27 x 21 | CFM | 690 | 830 | 965 | 1100 | 1245 | 1380 | 1655 | 1935 | 2210 | 2490 | 2760 |
| Ak 1.380 | Throw X/Y | 8-13/10-17 | 10-15/13-20 | 12-19/15-24 | 14-21/17-27 | 15-23/19-30 | 16-26/21-33 | 20-30/25-37 | 24-36/29-42 | 28-41/33-46 | 30-46/37-51 | 34-51/42-56 |



Note: The minimum Throw Dimension is based on a terminal velocity of 135 FPM. The maximum Throw Dimension is based on a terminal velocity of 65 FPM.

| Ceiling Height in Feet | Max. Rec. Cooling Temp. Differential | Max. Rec. CFM Per Diff. | | | |
|------------------------|--------------------------------------|-------------------------|-----------|---------|---------|
| | | 1400/AL1400 | | | |
| | | Four-Way | Three-Way | Two-Way | One-Way |
| 7 | 15° | 400 | 300 | 200 | 100 |
| 8 | 20° | 600 | 450 | 300 | 150 |
| 9 | 25° | 1200 | 900 | 600 | 300 |
| 10 | 25° | 1800 | 1350 | 900 | 450 |
| 12 | 30° | 3200 | 2400 | 1600 | 800 |
| 14 | 30° | 4800 | 3600 | 2400 | 1200 |
| 16 | 30° | 6000 | 4500 | 3000 | 1500 |

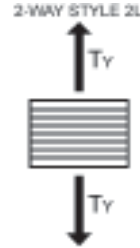


See Description of NC Criteria on page 96.

Series 1400/AL1400 Square/Rectangular Ceiling Diffuser

Two-Way Style 2L

| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|---------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 9 x 6 | CFM | 65 | 80 | 95 | 105 | 120 | 130 | 160 | 185 | 210 | 240 | 260 |
| Ak .130 | Throw Y | 3-5 | 3-5 | 5-7 | 6-8 | 7-10 | 7-10 | 8-12 | 10-14 | 11-17 | 14-20 | 16-23 |
| 12 x 6 | CFM | 90 | 105 | 120 | 140 | 160 | 175 | 210 | 245 | 280 | 315 | 350 |
| Ak .170 | Throw Y | 3-5 | 5-7 | 6-8 | 6-9 | 7-10 | 8-12 | 10-14 | 12-18 | 15-21 | 16-23 | 17-25 |
| 15 x 6 | CFM | 110 | 130 | 155 | 175 | 200 | 220 | 265 | 310 | 350 | 395 | 440 |
| Ak .220 | Throw Y | 4-6 | 6-8 | 6-9 | 7-10 | 9-13 | 10-14 | 10-15 | 13-19 | 15-21 | 18-26 | 21-30 |
| 12 x 9 | CFM | 130 | 155 | 180 | 210 | 235 | 260 | 310 | 365 | 415 | 470 | 520 |
| Ak .260 | Throw Y | 5-7 | 6-8 | 6-9 | 8-12 | 10-14 | 10-14 | 11-17 | 14-21 | 16-24 | 19-27 | 20-31 |
| 15 x 9 | CFM | 165 | 195 | 230 | 260 | 295 | 325 | 390 | 460 | 525 | 590 | 650 |
| Ak .320 | Throw Y | 6-8 | 7-10 | 8-12 | 9-13 | 10-15 | 12-18 | 14-20 | 16-24 | 18-26 | 21-31 | 24-35 |
| 18 x 9 | CFM | 195 | 235 | 275 | 310 | 350 | 390 | 470 | 545 | 625 | 700 | 780 |
| Ak .390 | Throw Y | 6-9 | 8-12 | 9-13 | 10-14 | 11-17 | 13-19 | 15-21 | 17-25 | 19-29 | 22-33 | 25-39 |
| 21 x 9 | CFM | 230 | 275 | 320 | 365 | 410 | 455 | 545 | 635 | 730 | 820 | 910 |
| Ak .450 | Throw Y | 7-10 | 8-12 | 9-13 | 11-16 | 12-18 | 14-20 | 16-24 | 19-27 | 22-32 | 25-36 | 29-41 |
| 15 x 12 | CFM | 220 | 260 | 305 | 350 | 390 | 435 | 525 | 610 | 700 | 785 | 870 |
| Ak .430 | Throw Y | 6-9 | 8-12 | 10-14 | 10-15 | 12-18 | 14-20 | 15-24 | 18-27 | 22-32 | 24-36 | 28-41 |
| 18 x 12 | CFM | 260 | 315 | 370 | 420 | 475 | 525 | 630 | 735 | 840 | 945 | 1050 |
| Ak .520 | Throw Y | 7-11 | 9-13 | 11-15 | 12-18 | 13-19 | 15-21 | 18-26 | 20-29 | 23-34 | 27-39 | 31-42 |
| 21 x 15 | CFM | 380 | 455 | 530 | 605 | 685 | 760 | 915 | 1060 | 1220 | 1370 | 1520 |
| Ak .760 | Throw Y | 9-13 | 10-15 | 12-18 | 14-20 | 15-23 | 17-25 | 20-30 | 23-34 | 27-40 | 31-44 | 34-48 |
| 24 x 15 | CFM | 440 | 525 | 615 | 700 | 790 | 875 | 1050 | 1225 | 1400 | 1575 | 1750 |
| Ak .870 | Throw Y | 8-14 | 11-16 | 13-19 | 15-21 | 17-25 | 19-29 | 22-33 | 25-38 | 29-42 | 33-48 | 38-54 |
| 21 x 18 | CFM | 460 | 550 | 640 | 735 | 825 | 915 | 1100 | 1280 | 1465 | 1645 | 1830 |
| Ak .910 | Throw Y | 10-15 | 11-17 | 13-19 | 16-22 | 19-25 | 20-28 | 23-33 | 26-38 | 29-42 | 34-46 | 38-51 |
| 27 x 21 | CFM | 690 | 830 | 965 | 1100 | 1245 | 1380 | 1655 | 1935 | 2210 | 2490 | 2760 |
| Ak 1.300 | Throw Y | 11-17 | 14-20 | 17-24 | 19-27 | 21-31 | 23-35 | 27-40 | 34-46 | 38-51 | 42-56 | 47-61 |



Note: The minimum Throw Dimension is based on a terminal velocity of 135 FPM. The maximum Throw Dimension is based on a terminal velocity of 65 FPM.

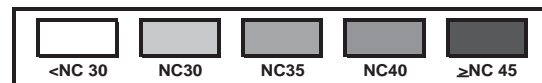
Two-Way Style 2S

| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|---------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 9 x 6 | CFM | 65 | 80 | 95 | 105 | 120 | 130 | 160 | 185 | 210 | 240 | 265 |
| Ak .130 | Throw X | 3-6 | 4-7 | 5-8 | 6-9 | 8-12 | 9-13 | 10-14 | 11-17 | 13-19 | 15-23 | 17-26 |
| 12 x 6 | CFM | 90 | 105 | 120 | 140 | 160 | 175 | 210 | 245 | 280 | 315 | 350 |
| Ak .170 | Throw X | 4-7 | 6-8 | 7-10 | 8-12 | 9-13 | 10-14 | 11-17 | 14-20 | 15-23 | 17-25 | 19-29 |
| 15 x 6 | CFM | 110 | 130 | 155 | 175 | 200 | 220 | 265 | 310 | 350 | 395 | 440 |
| Ak .220 | Throw X | 5-7 | 6-9 | 7-10 | 9-13 | 10-15 | 11-17 | 13-19 | 15-23 | 18-26 | 21-30 | 23-34 |
| 12 x 9 | CFM | 130 | 155 | 180 | 210 | 235 | 260 | 310 | 365 | 415 | 470 | 520 |
| Ak .260 | Throw X | 6-8 | 6-9 | 7-10 | 9-13 | 9-13 | 10-15 | 13-19 | 15-21 | 17-25 | 19-29 | 21-31 |
| 15 x 9 | CFM | 165 | 195 | 230 | 260 | 295 | 325 | 390 | 460 | 525 | 590 | 650 |
| Ak .320 | Throw X | 7-10 | 8-12 | 9-13 | 10-14 | 12-18 | 14-20 | 16-24 | 18-26 | 19-29 | 23-33 | 27-39 |
| 18 x 9 | CFM | 195 | 235 | 275 | 310 | 350 | 390 | 470 | 545 | 625 | 700 | 780 |
| Ak .390 | Throw X | 7-10 | 9-13 | 11-17 | 12-18 | 13-19 | 15-23 | 18-27 | 20-30 | 22-32 | 25-38 | 29-43 |
| 21 x 9 | CFM | 230 | 275 | 320 | 365 | 410 | 455 | 545 | 635 | 730 | 820 | 910 |
| Ak .450 | Throw X | 9-13 | 9-14 | 10-15 | 12-18 | 15-21 | 16-24 | 19-29 | 22-33 | 26-38 | 29-42 | 32-47 |
| 15 x 12 | CFM | 220 | 260 | 305 | 350 | 390 | 435 | 525 | 610 | 700 | 785 | 870 |
| Ak .430 | Throw X | 7-10 | 8-12 | 10-14 | 11-17 | 13-19 | 15-21 | 16-24 | 19-27 | 22-33 | 25-38 | 29-42 |
| 18 x 12 | CFM | 260 | 315 | 370 | 420 | 475 | 525 | 630 | 735 | 840 | 945 | 1050 |
| Ak .520 | Throw X | 8-11 | 10-14 | 10-15 | 12-18 | 14-20 | 15-23 | 18-27 | 23-33 | 25-37 | 29-42 | 32-47 |
| 21 x 15 | CFM | 380 | 455 | 530 | 605 | 685 | 760 | 915 | 1060 | 1220 | 1370 | 1520 |
| Ak .760 | Throw X | 10-15 | 11-17 | 14-20 | 15-23 | 18-26 | 20-29 | 22-33 | 26-38 | 29-42 | 35-46 | 39-51 |
| 24 x 15 | CFM | 440 | 525 | 615 | 700 | 790 | 875 | 1050 | 1225 | 1400 | 1575 | 1750 |
| Ak .870 | Throw X | 9-14 | 11-17 | 15-21 | 17-25 | 19-29 | 22-32 | 25-37 | 28-41 | 33-45 | 38-51 | 43-56 |
| 21 x 18 | CFM | 460 | 550 | 640 | 735 | 825 | 915 | 1100 | 1280 | 1465 | 1645 | 1830 |
| Ak .910 | Throw X | 11-17 | 12-18 | 14-20 | 16-24 | 19-27 | 20-29 | 23-34 | 27-40 | 32-45 | 37-49 | 40-55 |
| 27 x 21 | CFM | 690 | 830 | 965 | 1100 | 1245 | 1380 | 1655 | 1935 | 2210 | 2490 | 2760 |
| Ak 1.300 | Throw X | 12-18 | 15-21 | 18-25 | 21-29 | 23-33 | 25-37 | 29-43 | 33-48 | 38-53 | 43-59 | 49-63 |



Note: The minimum Throw Dimension is based on a terminal velocity of 135 FPM. The maximum Throw Dimension is based on a terminal velocity of 65 FPM.

| Ceiling Height in Feet | Max. Rec. Cooling Temp. Differential | Max. Rec. CFM Per Diff. 1400/AL1400 | | | |
|------------------------|--------------------------------------|-------------------------------------|-----------|---------|---------|
| | | Four-Way | Three-Way | Two-Way | One-Way |
| 7 | 15° | 400 | 300 | 200 | 100 |
| 8 | 20° | 600 | 450 | 300 | 150 |
| 9 | 25° | 1200 | 900 | 600 | 300 |
| 10 | 25° | 1800 | 1350 | 900 | 450 |
| 12 | 30° | 3200 | 2400 | 1600 | 800 |
| 14 | 30° | 4800 | 3600 | 2400 | 1200 |
| 16 | 30° | 6000 | 4500 | 3000 | 1500 |

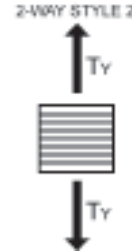


See Description of NC Criteria on page 96.

Series 1400/AL1400 Square/Rectangular Ceiling Diffuser

Two-Way Style 2

| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|----------------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 6 x 6 | CFM | 45 | 55 | 60 | 70 | 80 | 90 | 105 | 125 | 140 | 160 | 180 |
| Ak .090 | Throw Y | 3-5 | 3-5 | 4-7 | 4-7 | 5-8 | 5-8 | 6-9 | 9-13 | 10-15 | 11-17 | 12-18 |
| 9 x 9 | CFM | 95 | 115 | 135 | 155 | 175 | 195 | 235 | 275 | 315 | 350 | 390 |
| Ak .190 | Throw Y | 5-7 | 6-8 | 6-8 | 6-9 | 8-12 | 9-13 | 11-17 | 12-18 | 14-20 | 16-24 | 18-26 |
| 12 x 12 | CFM | 175 | 210 | 245 | 280 | 315 | 350 | 420 | 480 | 560 | 635 | 700 |
| Ak .350 | Throw Y | 4-7 | 6-9 | 9-13 | 10-15 | 11-17 | 12-18 | 14-20 | 17-23 | 18-27 | 21-31 | 23-35 |
| 15 x 15 | CFM | 275 | 330 | 385 | 440 | 495 | 550 | 660 | 775 | 885 | 995 | 1100 |
| Ak .550 | Throw Y | 8-12 | 10-14 | 10-15 | 12-18 | 14-20 | 15-23 | 18-27 | 22-32 | 24-36 | 26-39 | 29-43 |
| 18 x 18 | CFM | 390 | 470 | 545 | 625 | 700 | 780 | 935 | 1090 | 1250 | 1410 | 1560 |
| Ak .780 | Throw Y | 9-15 | 11-17 | 12-18 | 14-20 | 15-23 | 18-26 | 20-30 | 24-36 | 27-42 | 31-45 | 36-51 |
| 21 x 21 | CFM | 540 | 650 | 760 | 865 | 975 | 1080 | 1300 | 1515 | 1730 | 1945 | 2160 |
| Ak 1.080 | Throw Y | 11-17 | 14-20 | 15-23 | 18-26 | 19-29 | 23-35 | 26-40 | 29-44 | 34-49 | 38-54 | 43-59 |
| 24 x 24 | CFM | 705 | 845 | 990 | 1130 | 1270 | 1410 | 1690 | 1950 | 2250 | 2540 | 2820 |
| Ak 1.410 | Throw Y | 12-19 | 14-22 | 17-25 | 20-30 | 21-33 | 23-35 | 27-40 | 34-46 | 39-51 | 42-56 | 46-60 |
| 27 x 27 | CFM | 880 | 1055 | 1230 | 1410 | 1585 | 1760 | 2110 | 2470 | 2820 | 3170 | 3520 |
| Ak 1.760 | Throw Y | 12-20 | 15-23 | 18-26 | 21-31 | 24-36 | 26-40 | 30-45 | 35-50 | 39-56 | 43-61 | 48-66 |



Note: The minimum Throw Dimension is based on a terminal velocity of 135 FPM. The maximum Throw Dimension is based on a terminal velocity of 65 FPM.

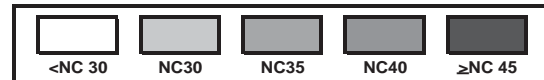
One-Way Style

| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|----------------------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 6 x 6 | CFM | 45 | 55 | 60 | 70 | 80 | 90 | 105 | 125 | 140 | 160 | 180 |
| Ak .090 | Throw | 3-5 | 4-7 | 5-8 | 6-9 | 8-10 | 9-12 | 10-14 | 12-18 | 14-20 | 15-22 | 16-24 |
| 9 x 9 | CFM | 95 | 115 | 135 | 155 | 175 | 195 | 235 | 275 | 315 | 350 | 390 |
| Ak .190 | Throw | 6-9 | 7-10 | 9-13 | 10-14 | 11-17 | 13-19 | 15-21 | 18-26 | 19-29 | 22-33 | 25-38 |
| 12 x 12 | CFM | 175 | 210 | 245 | 280 | 315 | 350 | 420 | 480 | 560 | 635 | 700 |
| Ak .350 | Throw | 8-12 | 10-14 | 12-18 | 13-19 | 15-21 | 18-26 | 21-31 | 24-36 | 27-40 | 30-43 | 33-45 |
| 15 x 15 | CFM | 275 | 330 | 385 | 440 | 495 | 550 | 660 | 775 | 885 | 995 | 1100 |
| Ak .550 | Throw | 10-16 | 13-19 | 14-22 | 18-26 | 19-29 | 21-31 | 25-37 | 30-43 | 35-46 | 38-50 | 42-56 |
| 18 x 18 | CFM | 390 | 470 | 545 | 625 | 700 | 780 | 935 | 1090 | 1250 | 1410 | 1560 |
| Ak .780 | Throw | 13-21 | 15-23 | 18-26 | 19-29 | 22-33 | 25-38 | 29-42 | 35-46 | 42-49 | 44-52 | 49-56 |
| 21 x 21 | CFM | 540 | 650 | 760 | 865 | 975 | 1080 | 1300 | 1515 | 1730 | 1945 | 2160 |
| Ak 1.080 | Throw | 14-23 | 17-25 | 21-30 | 24-36 | 27-40 | 30-43 | 34-48 | 39-54 | 44-60 | 48-64 | 53-68 |
| 24 x 24 | CFM | 705 | 845 | 990 | 1130 | 1270 | 1410 | 1690 | 1950 | 2250 | 2540 | 2820 |
| Ak 1.410 | Throw | 20-29 | 23-33 | 24-36 | 27-40 | 30-44 | 35-48 | 39-54 | 43-60 | 48-65 | 52-69 | 56-74 |
| 27 x 27 | CFM | 880 | 1055 | 1230 | 1410 | 1585 | 1760 | 2110 | 2470 | 2820 | 3170 | 3520 |
| Ak 1.760 | Throw | 19-27 | 22-31 | 25-38 | 28-42 | 33-47 | 36-53 | 43-58 | 49-63 | 54-68 | 60-73 | 65-77 |



Note: The minimum Throw Dimension is based on a terminal velocity of 135 FPM. The maximum Throw Dimension is based on a terminal velocity of 65 FPM.

| Ceiling Height in Feet | Max. Rec. Cooling Temp. Differential | Max. Rec. CFM Per Diff. | | | |
|------------------------|--------------------------------------|-------------------------|-----------|---------|---------|
| | | 1400/AL1400 | | | |
| | | Four-Way | Three-Way | Two-Way | One-Way |
| 7 | 15° | 400 | 300 | 200 | 100 |
| 8 | 20° | 600 | 450 | 300 | 150 |
| 9 | 25° | 1200 | 900 | 600 | 300 |
| 10 | 25° | 1800 | 1350 | 900 | 450 |
| 12 | 30° | 3200 | 2400 | 1600 | 800 |
| 14 | 30° | 4800 | 3600 | 2400 | 1200 |
| 16 | 30° | 6000 | 4500 | 3000 | 1500 |



See Description of NC Criteria on page 96.

Series 1400/AL1400 Square/Rectangular Ceiling Diffuser

One-Way Style 1L

| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 9 x 6 | CFM | 65 | 80 | 95 | 105 | 120 | 130 | 160 | 185 | 210 | 240 | 265 |
| Ak .130 | Throw | 5-8 | 6-9 | 7-11 | 8-12 | 9-13 | 10-15 | 12-18 | 15-21 | 16-24 | 19-29 | 21-32 |
| 12 x 6 | CFM | 90 | 105 | 120 | 140 | 160 | 175 | 210 | 245 | 280 | 315 | 350 |
| Ak .170 | Throw | 5-8 | 6-9 | 6-13 | 9-14 | 10-15 | 12-18 | 14-20 | 17-25 | 18-27 | 20-30 | 23-35 |
| 15 x 6 | CFM | 110 | 130 | 155 | 175 | 200 | 220 | 265 | 310 | 350 | 395 | 440 |
| Ak .220 | Throw | 5-8 | 7-10 | 9-13 | 10-15 | 12-18 | 14-20 | 16-24 | 18-27 | 21-31 | 24-36 | 28-41 |
| 12 x 9 | CFM | 130 | 155 | 180 | 210 | 235 | 260 | 310 | 365 | 415 | 470 | 520 |
| Ak .260 | Throw | 7-10 | 8-12 | 10-14 | 11-17 | 12-18 | 14-20 | 17-25 | 19-29 | 22-23 | 25-37 | 28-41 |
| 15 x 9 | CFM | 165 | 195 | 230 | 260 | 295 | 325 | 390 | 460 | 525 | 590 | 650 |
| Ak .320 | Throw | 9-13 | 10-14 | 11-17 | 12-18 | 15-23 | 17-25 | 20-30 | 22-33 | 25-37 | 29-42 | 32-45 |
| 18 x 9 | CFM | 195 | 235 | 275 | 310 | 350 | 390 | 470 | 545 | 625 | 700 | 780 |
| Ak .390 | Throw | 9-13 | 10-15 | 12-18 | 14-20 | 16-24 | 18-26 | 20-30 | 25-37 | 27-40 | 31-44 | 36-48 |
| 15 x 12 | CFM | 220 | 260 | 305 | 350 | 390 | 435 | 525 | 610 | 700 | 785 | 870 |
| Ak .430 | Throw | 10-14 | 11-17 | 13-19 | 15-23 | 18-26 | 19-29 | 22-32 | 26-39 | 30-43 | 35-48 | 39-54 |
| 18 x 12 | CFM | 260 | 315 | 370 | 420 | 475 | 525 | 630 | 735 | 840 | 945 | 1050 |
| Ak .520 | Throw | 10-15 | 12-18 | 14-20 | 17-25 | 19-27 | 21-30 | 25-36 | 28-41 | 32-45 | 36-49 | 42-54 |
| 21 x 15 | CFM | 380 | 455 | 530 | 605 | 685 | 760 | 915 | 1060 | 1220 | 1370 | 1520 |
| Ak .760 | Throw | 13-19 | 15-21 | 18-26 | 19-29 | 22-34 | 25-38 | 29-42 | 34-46 | 38-51 | 43-56 | 48-61 |
| 24 x 15 | CFM | 440 | 525 | 615 | 700 | 790 | 875 | 1050 | 1225 | 1400 | 1575 | 1750 |
| Ak .870 | Throw | 14-22 | 16-24 | 18-27 | 21-31 | 24-36 | 27-40 | 30-43 | 35-47 | 41-52 | 46-57 | 53-61 |
| 21 x 18 | CFM | 460 | 550 | 640 | 735 | 825 | 915 | 1100 | 1280 | 1465 | 1645 | 1830 |
| Ak .910 | Throw | 14-20 | 16-24 | 19-29 | 22-32 | 24-36 | 26-39 | 30-43 | 35-47 | 41-51 | 45-56 | 49-62 |
| 27 x 21 | CFM | 690 | 830 | 965 | 1100 | 1245 | 1380 | 1655 | 1935 | 2210 | 2490 | 2760 |
| Ak 1.380 | Throw | 17-27 | 19-29 | 23-35 | 26-40 | 30-45 | 34-49 | 38-54 | 43-60 | 48-67 | 54-72 | 59-80 |

1-WAY STYLE 1L



Note: The minimum Throw Dimension is based on a terminal velocity of 135 FPM. The maximum Throw Dimension is based on a terminal velocity of 65 FPM.

One-Way Style 1S

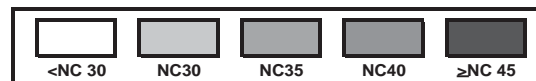
| Face Velocity | | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Pressure Loss | | .020 | .020 | .030 | .040 | .050 | .060 | .090 | .120 | .160 | .200 | .250 |
| 9 x 6 | CFM | 65 | 80 | 95 | 105 | 120 | 130 | 160 | 185 | 210 | 240 | 265 |
| Ak .130 | Throw | 4-7 | 5-9 | 7-11 | 9-13 | 11-17 | 13-19 | 15-21 | 16-24 | 18-27 | 21-32 | 23-35 |
| 12 x 6 | CFM | 90 | 105 | 120 | 140 | 160 | 175 | 210 | 245 | 280 | 315 | 350 |
| Ak .170 | Throw | 6-10 | 8-12 | 10-15 | 12-17 | 14-19 | 15-21 | 17-25 | 21-31 | 23-35 | 25-37 | 29-44 |
| 15 x 6 | CFM | 110 | 130 | 155 | 175 | 200 | 220 | 265 | 310 | 350 | 395 | 440 |
| Ak .220 | Throw | 9-12 | 10-14 | 12-18 | 14-20 | 16-24 | 18-26 | 21-31 | 23-35 | 27-40 | 31-45 | 35-51 |
| 12 x 9 | CFM | 130 | 155 | 180 | 210 | 235 | 260 | 310 | 365 | 415 | 470 | 520 |
| Ak .260 | Throw | 8-12 | 10-14 | 10-15 | 12-18 | 14-20 | 16-24 | 18-27 | 23-33 | 24-37 | 28-42 | 30-44 |
| 15 x 9 | CFM | 165 | 195 | 230 | 260 | 295 | 325 | 390 | 460 | 525 | 590 | 650 |
| Ak .320 | Throw | 10-15 | 12-18 | 13-19 | 15-21 | 18-26 | 22-32 | 23-35 | 26-39 | 30-43 | 35-46 | 38-47 |
| 18 x 9 | CFM | 195 | 235 | 275 | 310 | 350 | 390 | 470 | 545 | 625 | 700 | 780 |
| Ak .390 | Throw | 11-17 | 13-19 | 15-23 | 17-25 | 20-30 | 22-33 | 25-38 | 31-44 | 34-45 | 38-47 | 42-51 |
| 15 x 12 | CFM | 220 | 260 | 305 | 350 | 390 | 435 | 525 | 610 | 700 | 785 | 870 |
| Ak .430 | Throw | 11-16 | 12-18 | 15-21 | 17-25 | 19-29 | 22-32 | 25-38 | 28-44 | 33-45 | 36-49 | 42-54 |
| 18 x 12 | CFM | 260 | 315 | 370 | 420 | 475 | 525 | 630 | 735 | 840 | 945 | 1050 |
| Ak .520 | Throw | 12-18 | 14-20 | 16-24 | 19-27 | 21-31 | 22-33 | 27-40 | 32-45 | 37-47 | 42-50 | 45-56 |
| 21 x 15 | CFM | 380 | 455 | 530 | 605 | 685 | 760 | 915 | 1060 | 1220 | 1370 | 1520 |
| Ak .760 | Throw | 14-20 | 16-24 | 19-29 | 22-32 | 24-37 | 28-41 | 33-45 | 39-48 | 43-52 | 48-58 | 54-63 |
| 24 x 15 | CFM | 440 | 525 | 615 | 700 | 790 | 875 | 1050 | 1225 | 1400 | 1575 | 1750 |
| Ak .870 | Throw | 16-23 | 18-26 | 22-32 | 25-37 | 28-41 | 32-45 | 37-47 | 44-54 | 49-59 | 54-66 | 59-71 |
| 21 x 18 | CFM | 460 | 550 | 640 | 735 | 825 | 915 | 1100 | 1280 | 1465 | 1645 | 1830 |
| Ak .910 | Throw | 18-24 | 18-26 | 21-31 | 24-33 | 26-38 | 28-41 | 33-47 | 39-53 | 44-58 | 48-63 | 54-69 |
| 27 x 21 | CFM | 690 | 830 | 965 | 1100 | 1245 | 1380 | 1655 | 1935 | 2210 | 2490 | 2760 |
| Ak 1.380 | Throw | 19-29 | 21-32 | 25-38 | 31-44 | 37-49 | 40-51 | 42-55 | 46-61 | 51-66 | 56-71 | 61-77 |

1-WAY STYLE 1S



Note: The minimum Throw Dimension is based on a terminal velocity of 135 FPM. The maximum Throw Dimension is based on a terminal velocity of 65 FPM.

| Ceiling Height in Feet | Max. Rec. Cooling Temp. Differential | Max. Rec. CFM Per Diff. | | | |
|------------------------|--------------------------------------|-------------------------|-----------|---------|---------|
| | | 1400/AL1400 | | | |
| | | Four-Way | Three-Way | Two-Way | One-Way |
| 7 | 15° | 400 | 300 | 200 | 100 |
| 8 | 20° | 600 | 450 | 300 | 150 |
| 9 | 25° | 1200 | 900 | 600 | 300 |
| 10 | 25° | 1800 | 1350 | 900 | 450 |
| 12 | 30° | 3200 | 2400 | 1600 | 800 |
| 14 | 30° | 4800 | 3600 | 2400 | 1200 |
| 16 | 30° | 6000 | 4500 | 3000 | 1500 |



See Description of NC Criteria on page 96.