

**SERIES XG-RL PERFORMANCE DATA**  
**MODEL XG-RL**

| Size  | Nk Vel | 300   | 400   | 500   | 600   | 700   | 800   | 900   | 1000   |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|
|       | Pv     | .006  | .010  | .016  | .022  | .031  | .04   | .050  | .062   |
| 09x06 | CFM    | 113   | 150   | 188   | 225   | 263   | 300   | 338   | 375    |
|       | Pt     | .042  | .075  | .116  | .168  | .228  | .298  | .376  | .465   |
|       | Throws | 6-20  | 9-27  | 11-32 | 14-35 | 16-38 | 18-40 | 20-42 | 22-45  |
|       | NC     | -     | -     | 13    | 19    | 25    | 30    | 34    | 38     |
| 12x06 | CFM    | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500    |
|       | Pt     | .038  | .068  | .106  | .152  | .207  | .271  | .341  | .422   |
|       | Throws | 9-24  | 11-30 | 15-36 | 17-39 | 21-42 | 23-45 | 24-47 | 27-50  |
|       | NC     | -     | -     | 13    | 19    | 25    | 30    | 34    | 38     |
| 15x06 | CFM    | 188   | 250   | 313   | 375   | 438   | 500   | 563   | 625    |
|       | Pt     | .037  | .063  | .098  | .141  | .192  | .250  | .317  | .391   |
|       | Throws | 11-29 | 14-35 | 18-40 | 22-44 | 26-47 | 28-51 | 29-53 | 32-57  |
|       | NC     | -     | -     | 14    | 20    | 26    | 31    | 35    | 39     |
| 18x06 | CFM    | 225   | 300   | 375   | 450   | 525   | 600   | 675   | 750    |
|       | Pt     | .033  | .059  | .092  | .133  | .180  | .236  | .299  | .369   |
|       | Throws | 14-34 | 17-40 | 22-45 | 26-48 | 30-52 | 33-56 | 34-59 | 36-63  |
|       | NC     | -     | -     | 15    | 21    | 17    | 31    | 36    | 39     |
| 24x06 | CFM    | 300   | 400   | 500   | 600   | 700   | 800   | 900   | 1000   |
|       | Pt     | .030  | .053  | .083  | .120  | .164  | .213  | .271  | .334   |
|       | Throws | 17-39 | 23-45 | 28-51 | 32-56 | 35-60 | 36-64 | 40-68 | 41-72  |
|       | NC     | -     | -     | 14    | 20    | 25    | 30    | 35    | 38     |
| 30x06 | CFM    | 375   | 500   | 625   | 750   | 875   | 1000  | 1125  | 1250   |
|       | Pt     | .028  | .049  | .078  | .112  | .151  | .198  | .251  | .309   |
|       | Throws | 21-45 | 28-51 | 33-57 | 36-63 | 39-68 | 41-72 | 45-76 | 46-81  |
|       | NC     | -     | -     | 14    | 20    | 25    | 30    | 34    | 38     |
| 36x06 | CFM    | 450   | 600   | 750   | 900   | 1050  | 1200  | 1350  | 1500   |
|       | Pt     | .026  | .047  | .073  | .105  | .143  | .186  | .236  | .291   |
|       | Throws | 26-50 | 33-58 | 36-64 | 40-71 | 44-76 | 47-82 | 51-87 | 52-90  |
|       | NC     | -     | -     | 16    | 22    | 27    | 32    | 36    | 40     |
| 48x06 | CFM    | 600   | 800   | 1000  | 1200  | 1400  | 1600  | 1800  | 2000   |
|       | Pt     | .024  | .043  | .066  | .095  | .129  | .169  | .214  | .264   |
|       | Throws | 30-54 | 36-65 | 41-71 | 45-80 | 48-84 | 53-92 | 57-98 | 59-101 |
|       | NC     | -     | 11    | 17    | 24    | 29    | 34    | 38    | 42     |

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| Size         | Nk Vel        | 300   | 400   | 500   | 600   | 700   | 800    | 900    | 1000   |
|--------------|---------------|-------|-------|-------|-------|-------|--------|--------|--------|
|              | Pv            | .006  | .010  | .016  | .022  | .031  | .04    | .050   | .062   |
| <b>60x06</b> | <b>CFM</b>    | 750   | 1000  | 1250  | 1500  | 1750  | 2000   | 2250   | 2500   |
|              | <b>Pt</b>     | .022  | .039  | .061  | .088  | .120  | .157   | .199   | .244   |
|              | <b>Throws</b> | 36-62 | 41-71 | 46-80 | 51-88 | 54-94 | 58-101 | 62-107 | 65-113 |
|              | <b>NC</b>     | -     | 12    | 19    | 26    | 31    | 36     | 40     | 44     |

Data based on units tested at 0° Blade Deflection. See chart below for other Blade Deflections.

| Deflection | NC  | Throws | Pt    |
|------------|-----|--------|-------|
| 15°        | + 4 | x .85  | x 1.2 |
| 30°        | + 8 | x .69  | x 1.8 |

**PERFORMANCE NOTES FOR SERIES XG-RL**

*All Data was tested in accordance with ANSI/ASHRAE 70-2006.*

**DEFINITION OF UNITS:**

*CFM Air volume in cubic feet per minute*

*Nk Vel Neck Velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured in feet per minute*

*NC Noise Criteria based on a room absorption of 10 dB, re: 10<sup>-12</sup> watts [ NC less than 10 (-)]*

*Throw Throw distance in feet are for terminal velocities of 150 and 50 fpm respectively*

*Ps Static pressure is in inches of water*

**SERIES XG-RL PERFORMANCE DATA**  
**MODEL XG-RL**

| Size  | Nk Vel | 300   | 400   | 500    | 600    | 700    | 800    | 900    | 1000   |
|-------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
|       | Pv     | .006  | .010  | .016   | .022   | .031   | .04    | .050   | .062   |
| 20x10 | CFM    | 417   | 556   | 695    | 834    | 973    | 1112   | 1250   | 1389   |
|       | Pt     | .026  | .047  | .074   | .107   | .145   | .189   | .240   | .292   |
|       | Throws | 22-46 | 30-53 | 34-59  | 38-64  | 40-70  | 44-75  | 46-78  | 48-83  |
|       | NC     | -     | -     | 16     | 22     | 27     | 32     | 36     | 40     |
| 30x10 | CFM    | 625   | 834   | 1042   | 1250   | 1459   | 1667   | 1875   | 2084   |
|       | Pt     | .023  | .042  | .065   | .094   | .128   | .167   | .211   | .261   |
|       | Throws | 28-54 | 35-63 | 40-70  | 23-77  | 28-83  | 52-88  | 54-93  | 57-99  |
|       | NC     | -     | 10    | 17     | 23     | 28     | 30     | 38     | 41     |
| 40x10 | CFM    | 834   | 1112  | 1389   | 1667   | 1945   | 2223   | 2500   | 2778   |
|       | Pt     | .021  | .037  | .058   | .083   | .114   | .149   | .188   | .233   |
|       | Throws | 34-63 | 41-72 | 46-81  | 52-90  | 57-96  | 60-101 | 63-107 | 65-114 |
|       | NC     | -     | 11    | 18     | 24     | 29     | 32     | 39     | 42     |
| 50x10 | CFM    | 1042  | 1389  | 1737   | 2084   | 2431   | 2778   | 3125   | 3473   |
|       | Pt     | .019  | .034  | .053   | .077   | .105   | .137   | .173   | .213   |
|       | Throws | 41-71 | 47-82 | 53-92  | 58-101 | 63-108 | 68-116 | 71-123 | 75-130 |
|       | NC     | -     | 12    | 29     | 25     | 31     | 36     | 40     | 44     |
| 60x10 | CFM    | 1250  | 1667  | 2084   | 2500   | 2917   | 3334   | 3750   | 4167   |
|       | Pt     | .018  | .033  | .051   | .075   | .101   | .132   | .167   | .207   |
|       | Throws | 44-77 | 51-90 | 58-100 | 63-111 | 69-119 | 74-126 | 77-135 | 82-142 |
|       | NC     | -     | 13    | 20     | 26     | 31     | 37     | 40     | 45     |
| 70x10 | CFM    | 1459  | 1945  | 2431   | 2917   | 3403   | 3889   | 4375   | 4862   |
|       | Pt     | .017  | .031  | .049   | .070   | .095   | .124   | .157   | .194   |
|       | Throws | 48-84 | 57-98 | 63-108 | 69-119 | 75-129 | 80-137 | 84-146 | 89-153 |
|       | NC     | -     | 14    | 21     | 27     | 32     | 37     | 41     | 45     |
| 20x12 | CFM    | 500   | 667   | 834    | 1000   | 1167   | 1334   | 1500   | 1667   |
|       | Pt     | .024  | .043  | .066   | .095   | .129   | .169   | .214   | .264   |
|       | Throws | 27-50 | 33-58 | 38-64  | 41-70  | 44-76  | 47-81  | 50-86  | 52-90  |
|       | NC     | -     | -     | 16     | 23     | 38     | 33     | 37     | 41     |
| 30x12 | CFM    | 750   | 1000  | 1250   | 1500   | 1750   | 2000   | 2250   | 2500   |
|       | Pt     | .022  | .039  | .061   | .088   | .120   | .157   | .199   | .244   |
|       | Throws | 34-60 | 40-70 | 45-77  | 48-84  | 52-92  | 57-98  | 59-104 | 62-110 |
|       | NC     | -     | 11    | 18     | 24     | 29     | 34     | 38     | 42     |
| 40x12 | CFM    | 1000  | 1334  | 1667   | 2000   | 2334   | 2667   | 3000   | 3334   |
|       | Pt     | .019  | .035  | .054   | .079   | .108   | .140   | .178   | .219   |
|       | Throws | 40-70 | 47-81 | 52-90  | 57-99  | 62-106 | 66-113 | 70-120 | 74-128 |
|       | NC     | -     | 12    | 19     | 25     | 31     | 35     | 40     | 43     |

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**MODEL XG-RL**

| Size  | Nk Vel | 300   | 400    | 500    | 600    | 700    | 800    | 900    | 1000   |
|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
|       | Pv     | .006  | .010   | .016   | .022   | .031   | .04    | .050   | .062   |
| 50x12 | CFM    | 1250  | 1667   | 2084   | 2500   | 2917   | 3334   | 3750   | 4167   |
|       | Pt     | .018  | .032   | .050   | .073   | .098   | .128   | .163   | .201   |
|       | Throws | 45-77 | 52-89  | 57-100 | 63-108 | 68-74  | 74-125 | 77-134 | 81-141 |
|       | NC     | -     | 13     | 20     | 26     | 31     | 36     | 41     | 44     |
| 60x12 | CFM    | 1500  | 2000   | 2500   | 3000   | 3500   | 4000   | 4500   | 5000   |
|       | Pt     | .017  | .031   | .485   | .070   | .095   | .124   | .157   | .194   |
|       | Throws | 50-84 | 57-98  | 63-110 | 69-118 | 74-130 | 81-137 | 84-147 | 90-154 |
|       | NC     | -     | 14     | 21     | 27     | 32     | 37     | 42     | 45     |
| 70x12 | CFM    | 1750  | 2334   | 2917   | 3500   | 4084   | 4667   | 5250   | 5834   |
|       | Pt     | .016  | .029   | .046   | .066   | .089   | .116   | .147   | .182   |
|       | Throws | 53-92 | 62-106 | 69-118 | 75-130 | 81-141 | 87-150 | 92-159 | 96-167 |
|       | NC     | -     | 15     | 22     | 28     | 33     | 38     | 42     | 46     |

Data based on units tested at 0° Blade Deflection. See chart below for other Blade Deflections.

| Deflection | NC  | Throws | Pt    |
|------------|-----|--------|-------|
| 15°        | + 4 | x .85  | x 1.2 |
| 30°        | + 8 | x .69  | x 1.8 |

**PERFORMANCE NOTES FOR SERIES XG-RL**

All Data was tested in accordance with ANSI/ASHRAE 70-2006.

**DEFINITION OF UNITS:**

*CFM* Air volume in cubic feet per minute

*Nk Vel* Neck Velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured in feet per minute

*NC* Noise Criteria based on a room absorption of 10 dB, re: 10<sup>-12</sup> watts [ NC less than 10 (-)]

*Throw* Throw distance in feet are for terminal velocities of 150 fpm and 50 fpm respectively

*Ps* Static pressure is in inches of water

**SERIES XG-RL PERFORMANCE DATA**  
**MODEL XG-RL**

| Size  | Nk Vel | 300    | 400    | 500    | 600    | 700    | 800    | 900     | 1000    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
|       | Pv     | .006   | .010   | .016   | .022   | .031   | .04    | .050    | .062    |
| 15x15 | CFM    | 469    | 625    | 782    | 938    | 1094   | 1250   | 1407    | 1563    |
|       | Pt     | .024   | .044   | .068   | .097   | .133   | .173   | .219    | .271    |
|       | Throws | 23-48  | 30-56  | 36-63  | 40-69  | 42-74  | 46-78  | 48-83   | 51-88   |
|       | NC     | -      | -      | 16     | 23     | 28     | 33     | 37      | 41      |
| 20x15 | CFM    | 625    | 834    | 1042   | 1250   | 1459   | 1667   | 1875    | 2084    |
|       | Pt     | .021   | .042   | .064   | .092   | .127   | .165   | .210    | .257    |
|       | Throws | 28-56  | 35-64  | 41-72  | 46-80  | 50-86  | 53-92  | 56-96   | 59-102  |
|       | NC     | -      | 10     | 17     | 24     | 29     | 33     | 37      | 42      |
| 30x15 | CFM    | 938    | 1250   | 1563   | 1875   | 2188   | 2500   | 2813    | 3125    |
|       | Pt     | .020   | .037   | .057   | .081   | .112   | .146   | .184    | .227    |
|       | Throws | 33-63  | 40-72  | 47-82  | 53-90  | 57-98  | 60-105 | 63-110  | 68-117  |
|       | NC     | -      | 11     | 18     | 25     | 30     | 34     | 38      | 43      |
| 35x15 | CFM    | 1094   | 1459   | 1823   | 2188   | 2553   | 2917   | 3282    | 3646    |
|       | Pt     | .019   | .034   | .053   | .077   | .105   | .137   | .173    | .213    |
|       | Throws | 39-70  | 46-81  | 19-92  | 59-101 | 64-110 | 68-118 | 71-123  | 76-131  |
|       | NC     | -      | 12     | 19     | 26     | 30     | 35     | 39      | 43      |
| 40x15 | CFM    | 1250   | 1667   | 2084   | 2500   | 2917   | 3334   | 3750    | 4167    |
|       | Pt     | .030   | .053   | .083   | .120   | .164   | .213   | .271    | .334    |
|       | Throws | 17-39  | 23-45  | 28-51  | 32-56  | 35-60  | 36-64  | 40-68   | 41-72   |
|       | NC     | -      | -      | 14     | 20     | 25     | 30     | 35      | 38      |
| 50x15 | CFM    | 1563   | 2084   | 2605   | 3125   | 3646   | 4167   | 4688    | 5209    |
|       | Pt     | .017   | .030   | .047   | .067   | .091   | .119   | .154    | .186    |
|       | Throws | 51-87  | 58-100 | 65-112 | 71-123 | 77-132 | 82-142 | 87-150  | 92-159  |
|       | NC     | -      | 14     | 21     | 27     | 32     | 37     | 41      | 45      |
| 60x15 | CFM    | 1875   | 2500   | 3125   | 3750   | 4375   | 5000   | 5625    | 6250    |
|       | Pt     | .016   | .029   | .045   | .065   | .088   | .115   | .146    | .179    |
|       | Throws | 56-95  | 64-110 | 71-122 | 78-134 | 84-144 | 89-154 | 95-165  | 100-176 |
|       | NC     | -      | 14     | 22     | 28     | 33     | 38     | 42      | 46      |
| 70x15 | CFM    | 2188   | 2917   | 3646   | 4375   | 5105   | 5834   | 6563    | 7292    |
|       | Pt     | .016   | .027   | .043   | .061   | .083   | .109   | .137    | .170    |
|       | Throws | 59-102 | 69-118 | 76-132 | 84-144 | 90-156 | 96-167 | 102-178 | 108-186 |
|       | NC     | -      | 15     | 23     | 28     | 34     | 39     | 43      | 47      |

CONTINUED

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### MODEL XG-RL

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| 15°        | + 4 | x .85  | x 1.2 |
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#### DEFINITION OF UNITS:

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*NC Noise Criteria based on a room absorption of 10 dB, re: 10<sup>-12</sup> watts [ NC less than 10 (-)]*

*Throw Throw distance in feet are for terminal velocities of 150 and 50 fpm respectively*

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