

PERFORMANCE DATA

150/250 LONG THROW

| Nom. Duct Size (in.) | Nom. Duct Area (ft ²) | Core Area (ft ²) | NC 20 | | | NC 30 | | | NC 40 | | | NC 50 | | |
|----------------------|-----------------------------------|------------------------------|-------------|----------|-----------|-----------|-----------|------------|------------|------------|-------------|-------------|-------------|--|
| | | | Core Vel. | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | | |
| | | | Vel. Press. | 0.006 | 0.010 | 0.016 | 0.022 | 0.031 | 0.040 | 0.062 | 0.090 | 0.122 | | |
| 42x24 36x28 | 7.00 | 6.66 | Total | 22.5° | 0.011 | 0.019 | 0.030 | 0.043 | 0.058 | 0.076 | 0.118 | 0.171 | 0.232 | |
| | | | Press. | 45° | 0.016 | 0.029 | 0.045 | 0.065 | 0.089 | 0.116 | 0.181 | 0.260 | 0.354 | |
| | | | CFM | 1998 | 2664 | 3330 | 3996 | 4662 | 5328 | 6660 | 7992 | 9324 | | |
| 46x22 | 7.03 | 6.68 | NC | - | 13 | 20 | 25 | 30 | 34 | 41 | 46 | 51 | | |
| | | | Throw | 0° | 27-44-82 | 39-58-95 | 49-73-106 | 58-82-116 | 68-89-126 | 77-95-134 | 87-106-150 | 95-116-164 | 102-126-178 | |
| | | | 22.5° | 21-34-64 | 30-45-74 | 38-57-82 | 45-64-90 | 53-69-97 | 60-74-104 | 67-82-116 | 74-90-127 | 79-97-138 | | |
| 32x32 | 7.11 | 6.78 | 45° | 12-20-37 | 18-26-43 | 22-33-48 | 26-37-52 | 31-40-56 | 35-43-60 | 39-48-68 | 43-52-74 | 46-56-80 | | |
| | | | CFM | 2034 | 2712 | 3390 | 4068 | 4746 | 5424 | 6780 | 8136 | 9492 | | |
| | | | NC | - | 13 | 20 | 25 | 30 | 34 | 41 | 46 | 51 | | |
| 36x30 | 7.50 | 7.16 | Throw | 0° | 27-44-82 | 39-59-96 | 49-74-107 | 59-83-117 | 69-90-127 | 78-96-135 | 87-107-151 | 96-117-166 | 103-127-179 | |
| | | | 22.5° | 21-34-64 | 30-46-74 | 38-57-83 | 46-64-91 | 53-69-98 | 61-74-105 | 68-83-117 | 74-91-129 | 80-98-139 | | |
| | | | 45° | 12-20-37 | 18-27-43 | 22-33-48 | 27-37-53 | 31-40-57 | 35-43-61 | 39-48-68 | 43-53-75 | 47-57-81 | | |
| 48x24 36x32 | 8.00 | 7.63 | CFM | 2148 | 2864 | 3580 | 4296 | 5012 | 5728 | 7160 | 8592 | 10024 | | |
| | | | NC | - | 14 | 20 | 26 | 30 | 34 | 41 | 46 | 51 | | |
| | | | Throw | 0° | 28-45-85 | 40-61-98 | 50-76-110 | 61-85-121 | 71-92-130 | 80-98-139 | 90-110-156 | 98-121-170 | 106-130-184 | |
| 34x34 | 8.03 | 7.68 | 22.5° | 22-36-66 | 31-47-76 | 39-59-85 | 47-66-93 | 55-71-101 | 62-76-108 | 70-85-121 | 76-93-132 | 82-101-143 | | |
| | | | 45° | 13-20-38 | 18-27-44 | 23-34-50 | 27-38-54 | 32-41-59 | 36-44-63 | 40-50-70 | 44-54-77 | 48-59-83 | | |
| | | | CFM | 2289 | 3052 | 3815 | 4578 | 5341 | 6104 | 7630 | 9156 | 10682 | | |
| 36x34 | 8.50 | 8.14 | NC | - | 14 | 21 | 26 | 31 | 35 | 41 | 47 | 51 | | |
| | | | Throw | 0° | 29-47-88 | 42-63-102 | 52-78-114 | 63-88-124 | 73-95-134 | 83-102-144 | 93-114-161 | 102-124-176 | 110-134-190 | |
| | | | 22.5° | 22-36-68 | 32-48-79 | 40-61-88 | 48-68-96 | 57-74-104 | 64-79-111 | 72-88-124 | 79-96-136 | 85-104-147 | | |
| 42x30 | 8.75 | 8.38 | 45° | 13-21-40 | 19-28-46 | 23-35-51 | 28-40-56 | 33-43-60 | 37-46-65 | 42-51-72 | 46-56-79 | 49-60-86 | | |
| | | | CFM | 2304 | 3072 | 3840 | 4608 | 5376 | 6144 | 7680 | 9216 | 10752 | | |
| | | | NC | - | 14 | 21 | 26 | 31 | 35 | 41 | 47 | 51 | | |
| 36x36 | 9.00 | 8.63 | Throw | 0° | 29-47-88 | 42-63-102 | 52-78-114 | 63-88-125 | 73-95-135 | 83-102-144 | 93-114-161 | 102-125-176 | 110-135-191 | |
| | | | 22.5° | 22-36-68 | 32-49-79 | 41-61-88 | 49-68-97 | 57-74-104 | 64-79-112 | 72-88-125 | 79-97-137 | 85-104-148 | | |
| | | | 45° | 13-21-40 | 19-28-46 | 24-35-51 | 28-40-56 | 33-43-61 | 37-46-65 | 42-51-73 | 46-56-79 | 50-61-86 | | |
| 42x34 48x30 | 10.00 | 9.6 | CFM | 2442 | 3256 | 4070 | 4884 | 5698 | 6512 | 8140 | 9768 | 11396 | | |
| | | | NC | - | 14 | 21 | 26 | 31 | 35 | 41 | 47 | 52 | | |
| | | | Throw | 0° | 30-48-91 | 43-65-105 | 54-81-117 | 65-91-128 | 75-98-139 | 86-105-148 | 96-117-166 | 105-128-182 | 113-139-196 | |
| 38x38 | 10.03 | 9.64 | 22.5° | 23-38-70 | 33-50-81 | 42-63-91 | 50-70-100 | 58-76-108 | 66-81-115 | 74-91-129 | 81-100-141 | 88-108-152 | | |
| | | | 45° | 13-22-41 | 19-29-47 | 24-36-53 | 29-41-58 | 34-44-62 | 39-47-67 | 43-53-75 | 47-58-82 | 51-62-88 | | |
| | | | CFM | 2514 | 3352 | 4190 | 5028 | 5866 | 6704 | 8380 | 10056 | 11732 | | |
| 42x36 | 10.50 | 10.1 | NC | - | 14 | 21 | 26 | 31 | 35 | 42 | 47 | 52 | | |
| | | | Throw | 0° | 30-49-92 | 44-66-106 | 55-82-119 | 66-92-130 | 76-100-141 | 87-106-151 | 97-119-168 | 106-130-184 | 115-141-199 | |
| | | | 22.5° | 23-38-71 | 34-51-82 | 42-64-92 | 51-71-101 | 59-77-109 | 67-82-117 | 75-92-130 | 82-101-143 | 89-109-154 | | |
| 46x34 | 10.86 | 10.45 | 45° | 14-22-41 | 20-29-48 | 25-37-54 | 29-41-59 | 34-45-63 | 39-48-68 | 44-54-76 | 48-59-83 | 52-63-90 | | |
| | | | CFM | 2589 | 3452 | 4315 | 5178 | 6041 | 6904 | 8630 | 10356 | 12082 | | |
| | | | NC | - | 14 | 21 | 26 | 31 | 35 | 42 | 47 | 52 | | |
| 42x36 48x30 | 10.50 | 10.1 | Throw | 0° | 31-50-94 | 44-67-108 | 55-83-121 | 67-94-132 | 78-101-143 | 88-108-153 | 99-121-171 | 108-132-187 | 117-143-202 | |
| | | | 22.5° | 24-39-72 | 34-52-84 | 43-64-94 | 52-72-103 | 60-78-111 | 68-84-118 | 76-94-132 | 84-103-145 | 90-111-157 | | |
| | | | 45° | 14-22-42 | 20-30-49 | 25-37-54 | 30-42-60 | 35-45-64 | 40-49-69 | 44-54-77 | 49-60-84 | 53-64-91 | | |
| 38x38 | 10.03 | 9.64 | CFM | 2880 | 3840 | 4800 | 5760 | 6720 | 7680 | 9600 | 11520 | 13440 | | |
| | | | NC | - | 15 | 21 | 27 | 32 | 35 | 42 | 48 | 52 | | |
| | | | Throw | 0° | 32-53-99 | 47-70-114 | 58-88-127 | 70-99-140 | 82-107-151 | 93-114-161 | 104-127-180 | 114-140-197 | 123-151-213 | |
| 42x36 | 10.50 | 10.1 | 22.5° | 25-41-76 | 36-54-88 | 45-68-99 | 54-76-108 | 63-83-117 | 72-88-125 | 81-99-140 | 88-108-153 | 95-117-165 | | |
| | | | 45° | 15-24-44 | 21-32-51 | 26-39-57 | 32-44-63 | 37-48-68 | 42-51-73 | 47-57-81 | 51-63-89 | 55-68-96 | | |
| | | | CFM | 2892 | 3856 | 4820 | 5784 | 6748 | 7712 | 9640 | 11568 | 13496 | | |
| 42x36 | 10.50 | 10.1 | NC | - | 15 | 22 | 27 | 32 | 36 | 42 | 48 | 52 | | |
| | | | Throw | 0° | 32-53-99 | 47-70-114 | 59-88-128 | 70-99-140 | 82-107-151 | 93-114-161 | 104-128-181 | 114-140-198 | 123-151-214 | |
| | | | 22.5° | 25-41-77 | 36-54-88 | 45-68-99 | 54-77-108 | 64-83-117 | 72-88-125 | 81-99-140 | 88-108-153 | 96-117-166 | | |
| 46x34 | 10.86 | 10.45 | 45° | 15-24-44 | 21-32-51 | 26-40-57 | 32-44-63 | 37-48-68 | 42-51-73 | 47-57-81 | 51-63-89 | 55-68-96 | | |
| | | | CFM | 3030 | 4040 | 5050 | 6060 | 7070 | 8080 | 10100 | 12120 | 14140 | | |
| | | | NC | - | 15 | 22 | 27 | 32 | 36 | 42 | 48 | 52 | | |
| 46x34 | 10.86 | 10.45 | Throw | 0° | 33-54-101 | 48-72-117 | 60-90-131 | 72-101-143 | 84-109-155 | 95-117-165 | 107-131-185 | 117-143-202 | 126-155-219 | |
| | | | 22.5° | 26-42-78 | 37-56-91 | 46-70-101 | 56-78-111 | 65-85-120 | 74-91-128 | 83-101-143 | 91-111-157 | 98-120-169 | | |
| | | | 45° | 15-24-46 | 22-32-53 | 27-40-59 | 32-46-64 | 38-49-70 | 43-53-74 | 48-59-83 | 53-64-91 | 57-70-98 | | |
| 46x34 | 10.86 | 10.45 | CFM | 3135 | 4180 | 5225 | 6270 | 7315 | 8360 | 10450 | 12540 | 14630 | | |
| | | | NC | - | 15 | 22 | 27 | 32 | 36 | 43 | 48 | 53 | | |
| | | | Throw | 0° | 34-55-103 | 49-73-119 | 61-92-133 | 73-103-146 | 85-111-157 | 97-119-168 | 109-133-188 | 119-146-206 | 128-157-222 | |
| | | | 22.5° | 26-43-80 | 38-57-92 | 47-71-103 | 57-80-113 | 66-86-122 | 75-92-130 | 84-103-146 | 92-113-160 | 99-122-172 | | |
| | | | 45° | 15-25-46 | 22-33-53 | 27-41-60 | 33-46-66 | 38-50-71 | 44-53-76 | 49-60-85 | 53-66-93 | 58-71-100 | | |