



PERFORMANCE DATA - SUPPLY

12mm Spacing - 0° DEFLECTION - VERTICAL BLADES AT 0°

*IMPERIAL UNITS

| WIDTH | CFM per foot | Vn | Pt | NC |
|---|--------------|-----|-------|----|
| 4 Inch An=0.333 sq.ft. Ak=0.243 sq.ft. | 90 | 270 | 0.024 | 16 |
| | 120 | 360 | 0.032 | 19 |
| | 150 | 450 | 0.040 | 20 |
| | 180 | 540 | 0.050 | 23 |
| | 210 | 630 | 0.065 | 26 |
| | 240 | 720 | 0.085 | 30 |
| 6 Inch An=0.500 sq.ft. Ak=0.342 sq.ft. | 270 | 810 | 0.107 | 35 |
| | 210 | 420 | 0.041 | 18 |
| | 240 | 480 | 0.054 | 23 |
| | 270 | 540 | 0.067 | 28 |
| | 300 | 600 | 0.082 | 32 |
| | 330 | 660 | 0.096 | 34 |
| 8 Inch An=0.667 sq.ft. Ak=0.478 sqft | 360 | 720 | 0.121 | 37 |
| | 405 | 810 | 0.146 | 40 |
| | 240 | 360 | 0.023 | 19 |
| | 270 | 405 | 0.027 | 23 |
| | 300 | 450 | 0.032 | 27 |
| | 360 | 540 | 0.047 | 33 |
| 10 Inch An=0.834 sq.ft. Ak=0.657 sq.ft. | 405 | 608 | 0.057 | 37 |
| | 420 | 630 | 0.067 | 41 |
| | 450 | 675 | 0.077 | 45 |
| | 210 | 252 | 0.006 | 15 |
| | 240 | 288 | 0.008 | 18 |
| | 270 | 324 | 0.010 | 22 |
| 12 Inch An=1.001 sq.ft. Ak=0.836 sq.ft. | 300 | 360 | 0.012 | 25 |
| | 330 | 396 | 0.014 | 29 |
| | 405 | 486 | 0.022 | 36 |
| | 450 | 540 | 0.027 | 39 |
| | 240 | 216 | 0.007 | 17 |
| | 270 | 243 | 0.007 | 21 |
| | 300 | 270 | 0.008 | 23 |
| | 405 | 364 | 0.013 | 35 |
| | 450 | 405 | 0.023 | 33 |

SYMBOLS

- CFM : Air Volume in cubic foot per minute
- Ak : Effective Face Area in feet square per feet length
- An : Neck Area in feet square per feet length
- Vn : Neck Velocity in feet per minute
- Pt : Total Pressure in inches water gauge
- Th : Throw in feet
- N.C. : Noise criteria

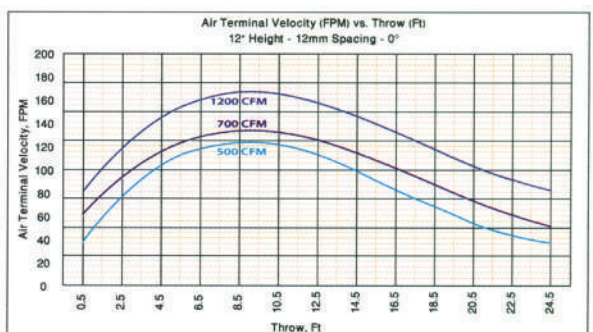
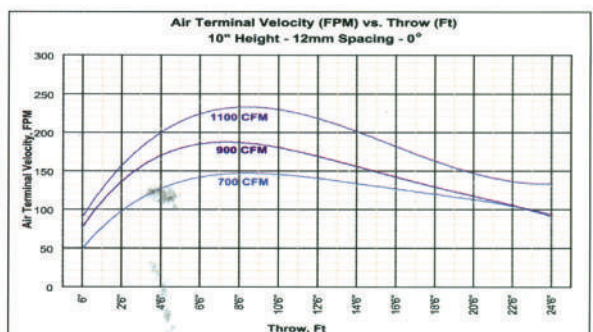
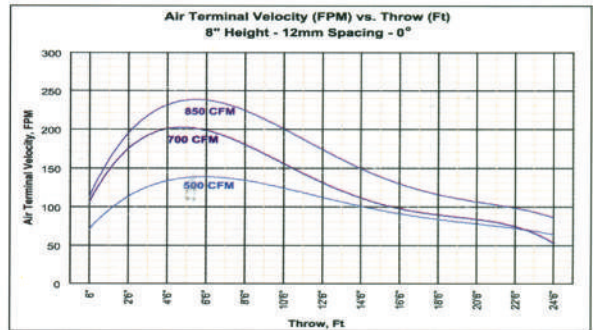
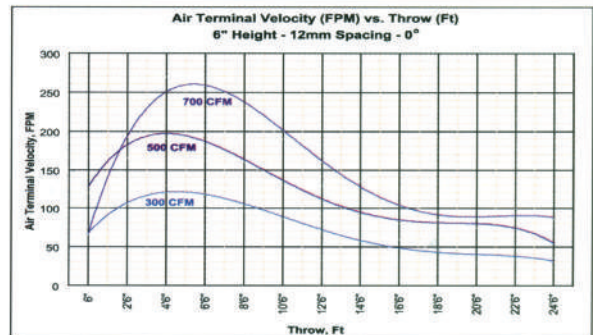
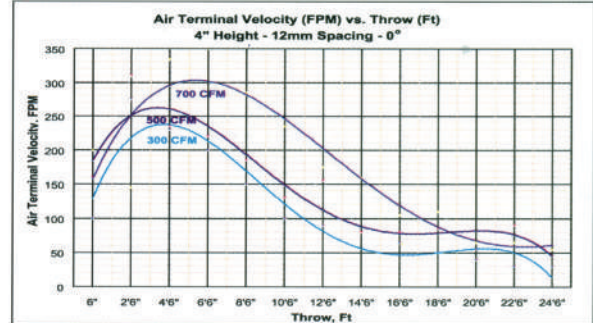
CONDITIONS

- * Supply
- * Vertical blades deflection: 0° deflection
- * Noise Criteria values are based on (10 dB) room attenuation
- * Throw Figures are measured for Linear Grilles fixed at 6" from the Ceiling
- * Damper is fully open
- * Data is based on 1ft length.

CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS

| Length | 3ft | 6ft | 10ft |
|--------|------|------|------|
| N.C. | (+4) | (+7) | (+9) |

THROW





PERFORMANCE DATA - SUPPLY

12mm Spacing - 0° DEFLECTION - VERTICAL BLADES AT 45°

THROW

*IMPERIAL UNITS

| WIDTH | CFM per foot | Vn | Pt | NC |
|---|--------------|-----|-------|----|
| 4 Inch An=0.333 sq.ft. Ak=0.202 sq.ft. | 90 | 270 | 0.001 | 15 |
| | 120 | 360 | 0.004 | 16 |
| | 150 | 450 | 0.043 | 20 |
| | 180 | 540 | 0.082 | 24 |
| | 210 | 630 | 0.121 | 30 |
| | 240 | 720 | 0.160 | 36 |
| | 270 | 810 | 0.194 | 39 |
| 6 Inch An=0.500 sq.ft. Ak=0.283 sq.ft. | 135 | 270 | 0.029 | 15 |
| | 180 | 360 | 0.058 | 20 |
| | 210 | 420 | 0.071 | 24 |
| | 240 | 480 | 0.094 | 29 |
| | 270 | 540 | 0.117 | 33 |
| | 300 | 600 | 0.142 | 36 |
| 8 Inch An=0.667 sq.ft. Ak=0.396 sqft | 330 | 660 | 0.167 | 39 |
| | 210 | 315 | 0.021 | 18 |
| | 240 | 360 | 0.028 | 22 |
| | 270 | 405 | 0.040 | 27 |
| | 300 | 450 | 0.047 | 31 |
| 10 Inch An=0.834 sq.ft. Ak=0.545 sq.ft. | 330 | 495 | 0.060 | 33 |
| | 360 | 540 | 0.072 | 36 |
| | 405 | 608 | 0.092 | 40 |
| | 210 | 252 | 0.009 | 15 |
| | 240 | 288 | 0.015 | 20 |
| | 270 | 324 | 0.016 | 23 |
| 12 Inch An=1.001 sq.ft. Ak=0.700 sq.ft. | 300 | 360 | 0.023 | 27 |
| | 330 | 396 | 0.024 | 31 |
| | 360 | 432 | 0.031 | 34 |
| | 405 | 486 | 0.039 | 37 |
| | 210 | 189 | 0.003 | 12 |
| | 240 | 216 | 0.002 | 18 |
| | 270 | 243 | 0.008 | 19 |
| | 300 | 270 | 0.001 | 23 |
| | 330 | 297 | 0.012 | 27 |
| | 360 | 324 | 0.010 | 32 |
| | 405 | 364 | 0.014 | 34 |

SYMBOLS

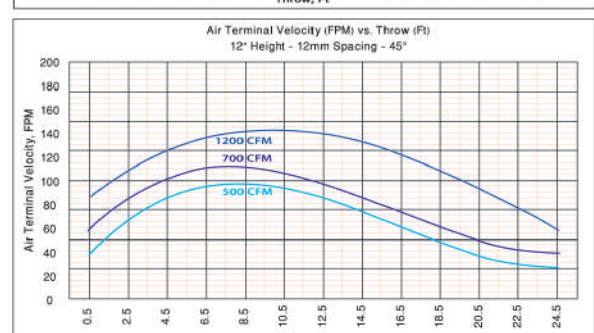
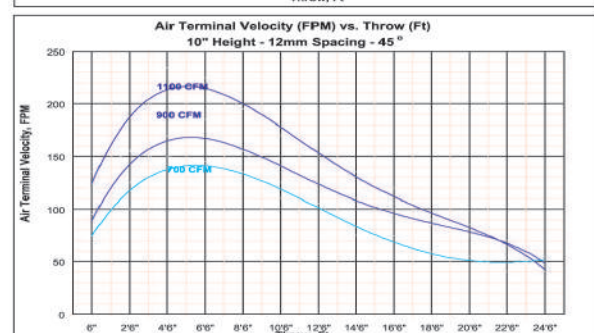
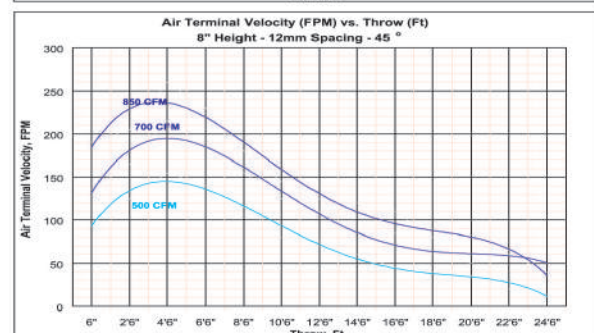
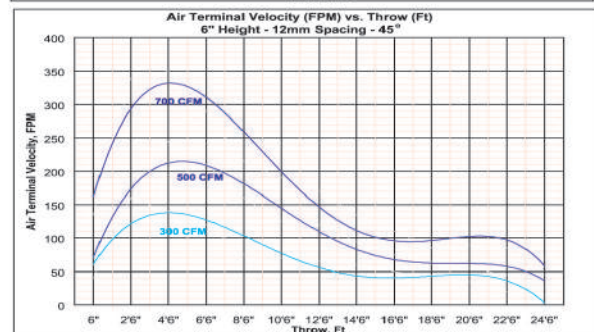
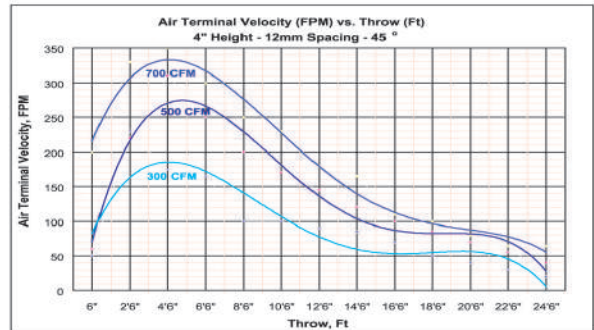
- CFM : Air Volume in cubic foot per minute
- AK : Effective Face Area in feet square per feet length
- AN : Neck Area in feet square per feet length
- Vn : Neck Velocity in feet per minute
- Pt : Total Pressure in inches water gauge
- Th : Throw in feet
- N.C. : Noise Criteria

CONDITIONS

- * Supply
- * Vertical blades deflection: 45° deflection
- * Noise Criteria values are based on (10 dB) room attenuation
- * Throw Figures are measured for Linear Grilles fixed at 6" from the Ceiling
- * Damper is fully open
- * Data is based on lft length.

CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS

| Length | 3ft | 6ft | 10ft |
|--------|------|------|------|
| N.C. | (+4) | (+7) | (+9) |





PERFORMANCE DATA - RETURN

12mm Spacing - 0° DEFLECTION

*IMPERIAL UNITS

| WIDTH | CFM per foot | Ps | NC |
|---------|--------------|-------|-----|
| 4 Inch | 90 | 0.001 | 15 |
| | 120 | 0.027 | 20 |
| | 150 | 0.053 | 24 |
| | 180 | 0.079 | 29 |
| | 210 | 0.105 | 33 |
| | 240 | 0.150 | 33 |
| | 270 | 0.180 | 33 |
| 6 Inch | 135 | 0.030 | 19 |
| | 180 | 0.050 | 20 |
| | 210 | 0.065 | 24 |
| | 240 | 0.090 | 29 |
| | 270 | 0.110 | 33 |
| | 300 | 0.135 | 37 |
| 8 Inch | 330 | 0.160 | 41 |
| | 210 | 0.025 | 15 |
| | 240 | 0.030 | 25 |
| | 270 | 0.040 | 33 |
| | 300 | 0.050 | 35 |
| | 330 | 0.060 | 35 |
| | 360 | 0.070 | 44 |
| 10 Inch | 405 | 0.090 | 42 |
| | 240 | 0.025 | 15 |
| | 250 | 0.025 | 22 |
| | 270 | 0.030 | 28 |
| | 330 | 0.035 | 29 |
| | 390 | 0.055 | 35 |
| | 450 | 0.075 | 42 |
| 12 Inch | 480 | 0.085 | 46 |
| | 240 | 0.020 | <15 |
| | 270 | 0.020 | 23 |
| | 330 | 0.010 | 23 |

SYMBOLS

- CFM : Air volume in cubic feet per minute.
- PS : Negative static pressure in inches water gauge.
- N.C. : Noise Criteria

CONDITIONS

- * Return
- * Noise Criteria is based on (10 dB) room attenuation
- * Damper is fully open
- * Data is based on 1ft length.

CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS

| Length | 3ft | 6ft | 10ft |
|--------|------|------|------|
| N.C. | (+4) | (+7) | (+9) |





LINEAR GRILLES & REGISTERS



PERFORMANCE DATA - SUPPLY

16mm Spacing - 0° DEFLECTION - VERTICAL BLADES AT 0°

*IMPERIAL UNITS

| WIDTH | CFM per foot | Vn | Pt | NC |
|---|--------------|-----|-------|----|
| 4 Inch An=0.333 sq.ft. Ak=0.248 sq.ft. | 90 | 270 | 0.001 | 15 |
| | 120 | 360 | 0.014 | 17 |
| | 150 | 450 | 0.026 | 19 |
| | 180 | 540 | 0.039 | 21 |
| | 210 | 630 | 0.051 | 23 |
| | 240 | 720 | 0.078 | 30 |
| 6 Inch An=0.500 sq.ft. Ak=0.347 sq.ft. | 270 | 810 | 0.105 | 37 |
| | 210 | 420 | 0.031 | 19 |
| | 240 | 480 | 0.049 | 23 |
| | 270 | 540 | 0.062 | 29 |
| | 300 | 600 | 0.077 | 32 |
| | 330 | 660 | 0.096 | 35 |
| 8 Inch An=0.667 sq.ft. Ak=0.495 sqft | 360 | 720 | 0.111 | 38 |
| | 405 | 810 | 0.139 | 41 |
| | 210 | 315 | 0.011 | 15 |
| | 270 | 405 | 0.019 | 21 |
| | 300 | 450 | 0.023 | 28 |
| | 330 | 495 | 0.028 | 30 |
| 10 Inch An=0.834 sq.ft. Ak=0.665 sq.ft. | 360 | 540 | 0.032 | 32 |
| | 405 | 608 | 0.042 | 36 |
| | 450 | 675 | 0.052 | 39 |
| | 240 | 288 | 0.005 | 15 |
| | 270 | 324 | 0.006 | 21 |
| | 300 | 360 | 0.008 | 24 |
| 12 Inch An=1.001 sq.ft. Ak=0.835 sq.ft. | 330 | 369 | 0.006 | 32 |
| | 360 | 432 | 0.004 | 38 |
| | 405 | 472 | 0.008 | 40 |
| | 450 | 315 | 0.003 | 27 |
| | 300 | 342 | 0.005 | 28 |
| | 330 | 369 | 0.006 | 32 |

SYMBOLS

- CFM : Air Volume in cubic foot per minute
- AK : Effective Face Area in feet square per feet length
- AN : Neck Area in feet square per feet length
- Vn : Neck Velocity in feet per minute
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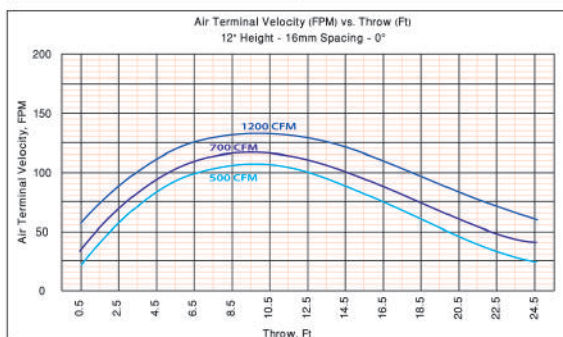
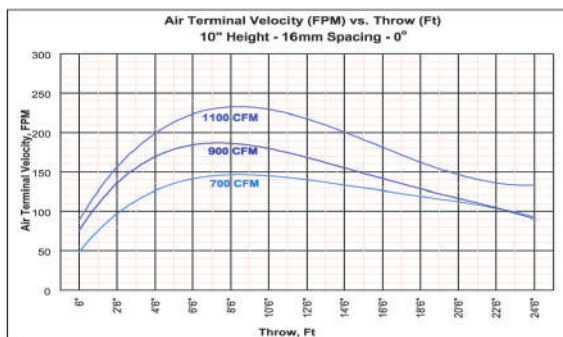
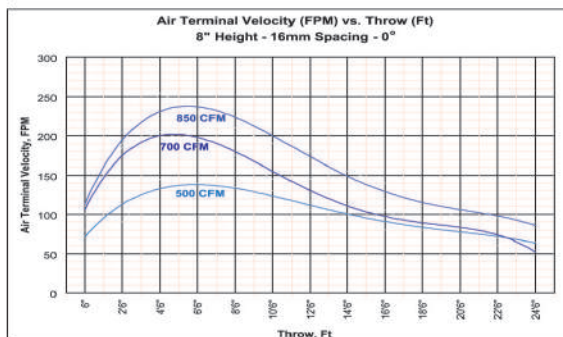
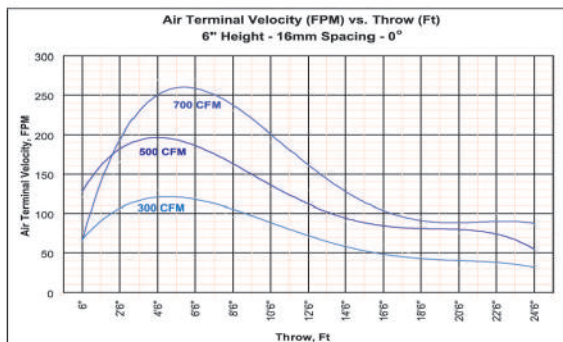
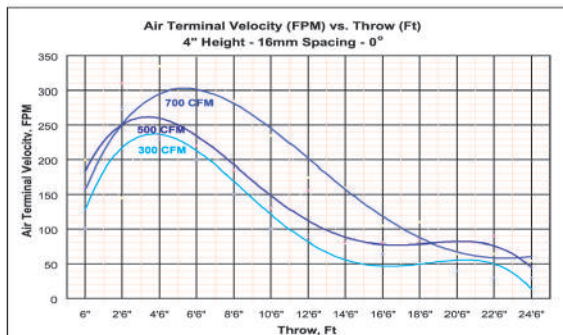
CONDITIONS

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- * Vertical blades deflection: 0° deflection
- * Noise Criteria values are based on (10 dB) room attenuation
- * Throw Figures are measured for Linear Grilles fixed at 6" from the Ceiling * Damper is fully open
- * Data is based on 1ft length.

CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS

| Length | 3ft | 6ft | 10ft |
|--------|------|------|------|
| N.C. | (+4) | (+7) | (+9) |

THROW





PERFORMANCE DATA - SUPPLY

16mm Spacing - 0° DEFLECTION - VERTICAL BLADES AT 45°

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| WIDTH | CFM per foot | Vn | Pt | NC |
|---|--------------|-----|-------|----|
| 4 Inch An=0.333 sq.ft Ak=0.184 sq.ft. | 90 | 270 | 0.001 | 15 |
| | 120 | 360 | 0.026 | 19 |
| | 150 | 450 | 0.051 | 23 |
| | 180 | 540 | 0.076 | 27 |
| | 210 | 630 | 0.101 | 31 |
| | 240 | 720 | 0.130 | 36 |
| | 270 | 810 | 0.159 | 41 |
| 6 Inch An=0.500 sq.ft. Ak=0.271 sq.ft. | 180 | 360 | 0.048 | 19 |
| | 210 | 420 | 0.061 | 24 |
| | 240 | 480 | 0.079 | 29 |
| | 300 | 540 | 0.102 | 33 |
| | 360 | 600 | 0.132 | 36 |
| | 420 | 660 | 0.161 | 39 |
| 8 Inch An=0.667 sq.ft. Ak=0.384 sqft | 450 | 900 | 0.176 | 41 |
| | 210 | 315 | 0.021 | 17 |
| | 240 | 360 | 0.028 | 22 |
| | 270 | 405 | 0.035 | 25 |
| | 300 | 450 | 0.047 | 30 |
| 10 Inch An=0.834 sq.ft. Ak=0.665 sq.ft. | 330 | 495 | 0.055 | 33 |
| | 360 | 540 | 0.067 | 36 |
| | 405 | 585 | 0.080 | 39 |
| | 210 | 252 | 0.010 | 15 |
| | 240 | 288 | 0.013 | 19 |
| 12 Inch An=1.001 sq.ft. Ak=0.680 sq.ft. | 300 | 360 | 0.021 | 25 |
| | 330 | 396 | 0.024 | 29 |
| | 405 | 540 | 0.047 | 39 |
| | 480 | 576 | 0.052 | 41 |
| | 210 | 189 | 0.001 | 13 |
| | 240 | 216 | 0.002 | 16 |
| | 300 | 270 | 0.005 | 20 |
| | 330 | 297 | 0.007 | 25 |
| | 405 | 387 | 0.002 | 33 |

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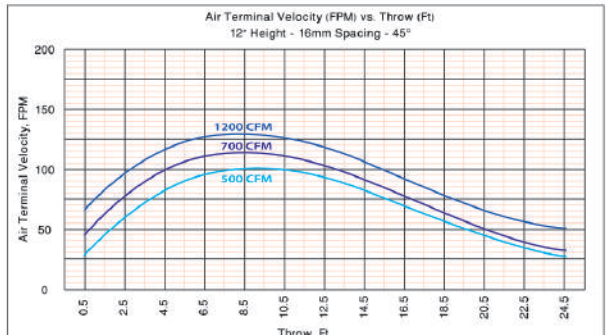
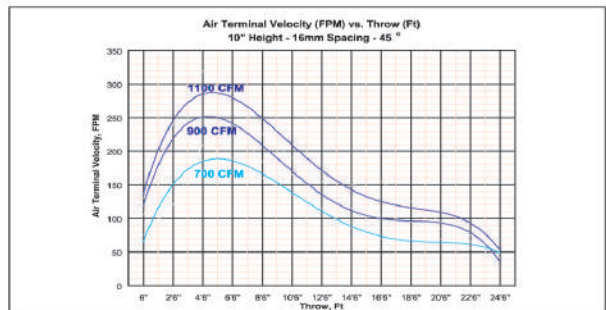
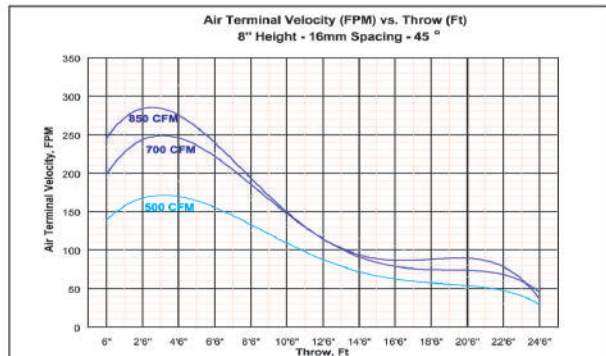
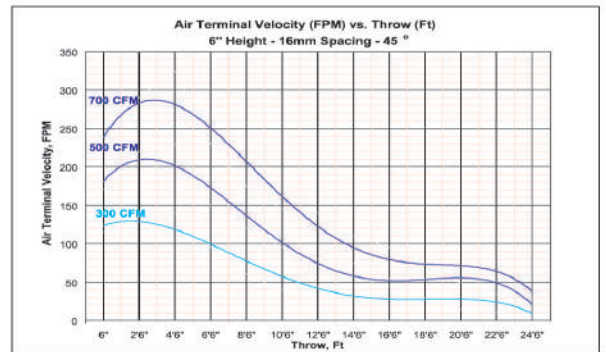
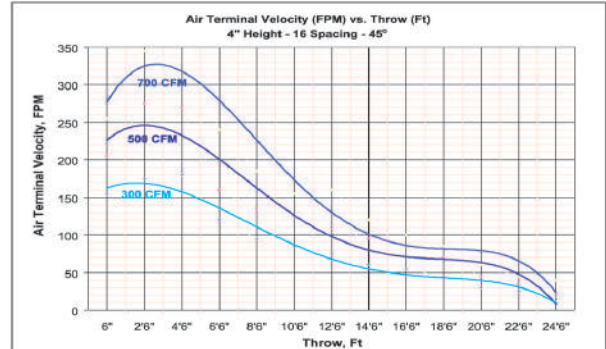
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| N.C. | (+4) | (+7) | (+9) |

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| | 210 | 0.048 | 37 |
| | 240 | 0.060 | 43 |
| | 270 | 0.080 | 44 |
| 6 Inch | 210 | 0.030 | 17 |
| | 240 | 0.040 | 29 |
| | 270 | 0.055 | 30 |
| | 300 | 0.070 | 34 |
| | 330 | 0.085 | 33 |
| | 360 | 0.105 | 37 |
| | 405 | 0.140 | 40 |
| 8 Inch | 240 | 0.020 | 15 |
| | 270 | 0.030 | 16 |
| | 300 | 0.040 | 34 |
| | 330 | 0.050 | 42 |
| | 360 | 0.060 | 43 |
| | 405 | 0.070 | 45 |
| | 450 | 0.080 | 47 |
| 10 Inch | 300 | 0.025 | 15 |
| | 330 | 0.030 | 17 |
| | 360 | 0.035 | 21 |
| | 390 | 0.040 | 37 |
| | 405 | 0.045 | 43 |
| | 450 | 0.055 | 40 |
| | 480 | 0.065 | 56 |
| 12 Inch | 210 | 0.030 | 15 |
| | 240 | 0.030 | 18 |
| | 300 | 0.020 | <15 |
| | 330 | 0.020 | 31 |
| | 405 | 0.010 | 39 |

SYMBOLS

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