

| *Grille Opening/Designation | Pt  | 0.03 | 0.04 | 0.07 | 0.11 | 0.15 | 0.20 | 0.25 | 0.32 | 0.39 | 0.46 |
|-----------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| A1                          | CFM | 21   | 24   | 31   | 38   | 45   | 52   | 59   | 66   | 73   | 80   |
|                             | NC  | <20  | <20  | <20  | <20  | 22   | 26   | 29   | 32   | 34   | 37   |
| A2, B1                      | CFM | 30   | 35   | 45   | 55   | 65   | 75   | 85   | 95   | 105  | 116  |
|                             | NC  | <20  | <20  | <20  | 20   | 24   | 27   | 30   | 33   | 36   | 38   |
| A3, C1                      | CFM | 39   | 46   | 59   | 72   | 85   | 99   | 112  | 125  | 138  | 151  |
|                             | NC  | <20  | <20  | <20  | 21   | 25   | 29   | 32   | 34   | 37   | 39   |
| A4, B2, D1                  | CFM | 47   | 55   | 71   | 86   | 102  | 118  | 133  | 149  | 165  | 180  |
|                             | NC  | <20  | <20  | <20  | 21   | 26   | 29   | 32   | 35   | 38   | 40   |
| A5, B3, C2, E1              | CFM | 60   | 70   | 90   | 110  | 120  | 140  | 160  | 180  | 200  | 220  |
|                             | NC  | <20  | <20  | <20  | 22   | 27   | 30   | 33   | 36   | 39   | 41   |
| A6, B4, D2, F1              | CFM | 70   | 80   | 100  | 130  | 150  | 170  | 200  | 220  | 240  | 260  |
|                             | NC  | <20  | <20  | <20  | 23   | 27   | 31   | 34   | 37   | 39   | 42   |
| A7, C3, G1                  | CFM | 80   | 90   | 110  | 140  | 160  | 190  | 220  | 240  | 270  | 290  |
|                             | NC  | <20  | <20  | <20  | 24   | 28   | 31   | 35   | 37   | 40   | 42   |
| A8, B5, E2, H1              | CFM | 90   | 100  | 130  | 160  | 180  | 210  | 240  | 270  | 300  | 330  |
|                             | NC  | <20  | <20  | <20  | 24   | 28   | 32   | 35   | 38   | 40   | 43   |
| A9, B6, C4, D3, F2, J1      | CFM | 100  | 110  | 140  | 170  | 210  | 240  | 270  | 300  | 330  | 360  |
|                             | NC  | <20  | <20  | <20  | 24   | 29   | 32   | 35   | 38   | 41   | 43   |
| B7, C5, D4, E3, G2          | CFM | 110  | 130  | 170  | 200  | 240  | 280  | 320  | 350  | 390  | 430  |
|                             | NC  | <20  | <20  | 20   | 25   | 29   | 33   | 36   | 39   | 42   | 44   |
| B8, C6, F3, H2              | CFM | 130  | 150  | 190  | 230  | 270  | 320  | 360  | 400  | 440  | 480  |
|                             | NC  | <20  | <20  | 21   | 26   | 30   | 34   | 37   | 40   | 42   | 44   |
| B9, C7, D5, E4, G3, J2      | CFM | 140  | 160  | 210  | 260  | 300  | 350  | 400  | 440  | 490  | 540  |
|                             | NC  | <20  | <20  | 21   | 26   | 30   | 34   | 37   | 40   | 42   | 45   |
| C8, D6, E5, F4, H3          | CFM | 160  | 190  | 240  | 290  | 350  | 400  | 460  | 510  | 560  | 620  |
|                             | NC  | <20  | <20  | 22   | 27   | 31   | 35   | 38   | 41   | 43   | 45   |
| C9, D7, E6, F5, G4, J3      | CFM | 180  | 210  | 270  | 340  | 400  | 460  | 520  | 580  | 640  | 700  |
|                             | NC  | <20  | <20  | 22   | 27   | 32   | 35   | 38   | 41   | 44   | 46   |
| D8, D9, E7, F6, G5, H4, J4  | CFM | 210  | 240  | 310  | 380  | 450  | 520  | 590  | 660  | 730  | 800  |
|                             | NC  | <20  | <20  | 23   | 28   | 32   | 36   | 39   | 42   | 44   | 47   |
| E8, F7, G6, H5              | CFM | 240  | 280  | 370  | 450  | 530  | 610  | 690  | 770  | 850  | 940  |
|                             | NC  | <20  | <20  | 24   | 29   | 33   | 36   | 40   | 42   | 45   | 47   |
| E9, F8, G7, H6, J5          | CFM | 270  | 320  | 410  | 500  | 590  | 690  | 780  | 870  | 960  | 1050 |
|                             | NC  | <20  | <20  | 24   | 29   | 33   | 37   | 40   | 43   | 45   | 48   |
| F9, G8, H7, J6              | CFM | 310  | 360  | 470  | 570  | 680  | 780  | 890  | 990  | 1090 | 1200 |
|                             | NC  | <20  | <20  | 25   | 30   | 34   | 37   | 41   | 43   | 46   | 48   |
| H8, J7, G9                  | CFM | 350  | 410  | 530  | 650  | 760  | 880  | 1000 | 1120 | 1230 | 1350 |
|                             | NC  | <20  | <20  | 25   | 30   | 34   | 38   | 41   | 44   | 47   | 49   |
| H9, J8                      | CFM | 390  | 460  | 590  | 720  | 850  | 980  | 1120 | 1250 | 1380 | 1510 |
|                             | NC  | <20  | <20  | 26   | 31   | 35   | 38   | 42   | 44   | 47   | 49   |
| J9                          | CFM | 440  | 510  | 650  | 800  | 950  | 1090 | 1240 | 1380 | 1530 | 1670 |
|                             | NC  | <20  | 20   | 26   | 31   | 35   | 39   | 42   | 45   | 47   | 50   |

### TEST STANDARD

- ANSI / ASHRAE Standard 70 & 113
- Isothermal air used during testing.

### SOUND LEVELS

- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10<sup>-12</sup> watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.

### PRESSURE

- P<sub>t</sub> represents Total Pressure, inches of water, measured in the supply duct.
- Static pressure may be calculated by subtracting the Velocity pressure from the Total Pressure: P<sub>s</sub> = P<sub>t</sub> - P<sub>v</sub>

## SIZING CHART

\*GRILLE OPENING / DESIGNATION  
ROUGH OPENING SIZES (WIDTH X HEIGHT)

| Dimensions<br>in Inches | WIDTH |     |      |      |      |      |      |      |      |    |
|-------------------------|-------|-----|------|------|------|------|------|------|------|----|
|                         | 6.4   | 8.4 | 10.4 | 12.4 | 14.4 | 16.4 | 18.4 | 20.4 | 22.4 |    |
| HEIGHT                  | 5.4   | A1  | B1   | C1   | D1   | E1   | F1   | G1   | H1   | J1 |
|                         | 7.4   | A2  | B2   | C2   | D2   | E2   | F2   | G2   | H2   | J2 |
|                         | 9.4   | A3  | B3   | C3   | D3   | E3   | F3   | G3   | H3   | J3 |
|                         | 11.4  | A4  | B4   | C4   | D4   | E4   | F4   | G4   | H4   | J4 |
|                         | 13.4  | A5  | B5   | C5   | D5   | E5   | F5   | G5   | H5   | J5 |
|                         | 15.4  | A6  | B6   | C6   | D6   | E6   | F6   | G6   | H6   | J6 |
|                         | 17.4  | A7  | B7   | C7   | D7   | E7   | F7   | G7   | H7   | J7 |
|                         | 19.4  | A8  | B8   | C8   | D8   | E8   | F8   | G8   | H8   | J8 |
|                         | 21.4  | A9  | B9   | C9   | D9   | E9   | F9   | G9   | H9   | J9 |

\*Width x Height dimensions are based on rear mounted duct collar.  
For other installation types (consult factory).

**IMPORTANT** It is the specifier's responsibility to properly configure the HVAC system to meet the appropriate level of comfort, safety, security and detention