

## CIBSE Guide B Tables

**Table 3.2** Recommended maximum duct velocities for low pressure ductwork systems where noise generation is the controlling factor<sup>a</sup>

| Typical applications                               | Typical noise rating (NR) <sup>a</sup> | Velocity / m.s <sup>-1</sup> |        |         |
|----------------------------------------------------|----------------------------------------|------------------------------|--------|---------|
|                                                    |                                        | Main ducts                   | Branch | Runouts |
| Domestic buildings (bedrooms)                      | 25                                     | 3.0                          | 2.5    | < 2.0   |
| Theatres, concert halls                            | 20-25                                  | 4.0                          | 2.5    | < 2.0   |
| Auditoria, lecture halls, cinemas                  | 25-30                                  | 4.0                          | 3.5    | < 2.0   |
| Bedrooms (non-domestic buildings)                  | 20-30                                  | 5.0                          | 4.5    | 2.5     |
| Private offices, libraries                         | 30-35                                  | 6.0                          | 5.5    | 3.0     |
| General offices, restaurants, banks                | 35-40                                  | 7.5                          | 6.0    | 3.5     |
| Department stores, supermarkets, shops, cafeterias | 40-45                                  | 9.0                          | 7.0    | 4.5     |
| Industrial buildings                               | 45-55                                  | 10.0                         | 8.0    | 5.0     |

<sup>a</sup> See CIBSE Guide A<sup>(20)</sup>, Table 1.1, and Table 1.17

**Table 3.3** Recommended maximum duct velocities for medium and high pressure systems

| Volume flow in duct / m <sup>3</sup> .s <sup>-1</sup> | Velocity / m.s <sup>-1</sup> |                       |
|-------------------------------------------------------|------------------------------|-----------------------|
|                                                       | Medium pressure systems      | High pressure systems |
| < 0.1                                                 | 8                            | 9                     |
| 0.1-0.5                                               | 9                            | 11                    |
| 0.5-1.5                                               | 11                           | 15                    |
| > 1.5                                                 | 15                           | 20                    |

**Table 3.5** Maximum velocity for supply and return air openings (grilles and terminals)<sup>(10)</sup>

| Supply or return air | Permitted air velocity / m.s <sup>-1</sup> |        |            |
|----------------------|--------------------------------------------|--------|------------|
|                      | Critical                                   | Normal | Uncritical |
| Supply               | 1.5                                        | 2.5    | 3          |
| Return               | 2                                          | 3      | 4          |

**Table 3.4** Guide to maximum duct velocities in risers and ceilings<sup>(10)</sup>

| Duct location                       | Duct type   | Maximum air velocity / m.s <sup>-1</sup> for stated room type |        |              |
|-------------------------------------|-------------|---------------------------------------------------------------|--------|--------------|
|                                     |             | Critical                                                      | Normal | Non-critical |
| Riser or above plasterboard ceiling | Rectangular | 5                                                             | 7.5    | 10           |
|                                     | Circular    | 7                                                             | 10     | 15           |
| Above suspended ceiling             | Rectangular | 3                                                             | 5      | 6            |
|                                     | Circular    | 5                                                             | 7      | 10           |

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**Giacomo Chiesa, Maria Kolokotroni, Per  
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*Innovations in Ventilative Cooling* Giacomo Chiesa, Maria Kolokotroni, Per Heiselberg, 2021-06-08 This book includes the most recent outcomes from research and professional practice in the ventilative cooling field gathered by the selected panel of authors It provides essential contents to face and reduce the rise of space cooling and ventilation energy uses in buildings by alternative ventilation and cooling solutions The book is organised into three parts which include a detailed description of ventilative cooling boundaries and implications working principles KPIs standards comfort models control techniques and of principal techniques night ventilation controlled natural ventilation hybrid solutions PCM and mass activation evaporative cooling earth to air heat exchangers along with an updated

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