

## CIBSE Guide B Tables

**Table 3.2** Recommended maximum duct velocities for low pressure ductwork systems where noise generation is the controlling factor

Typical applications	Typical noise rating (NR) <sup>*</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>\*</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>(1)</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>(1)</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

# Cibse Guide B Heating

**Dennis A. Snow**



## **Cibse Guide B Heating:**

**Heating, Ventilating, Air Conditioning and Refrigeration** Ken Butcher,2005-01-01 **Heating, Ventilating, Air Conditioning and Refrigeration** ,2005 Faber & Kell's Heating and Air-Conditioning of Buildings Doug Oughton,Steve Hodkinson,Richard Brailsford,2014-11-27 For over 70 years Faber Kell s has been the definitive reference text in its field It provides an understanding of the principles of heating and air conditioning of buildings in a concise manner illustrating practical information with simple easy to use diagrams now in full colour This new look 11th edition has been re organised for ease of use and includes fully updated chapters on sustainability and renewable energy sources as well as information on the new Building Regulations Parts F and L As well as extensive updates to regulations and codes it now includes an introduction that explains the role of the building services engineer in the construction process Its coverage of design calculations advice on using the latest technologies building management systems operation and maintenance makes this an essential reference for all building services professionals **Combined Index** Chartered Institution of Building Services Engineers,2016 **A Guide to Energy Management in Buildings** Douglas Harris,2012-06-25 Inefficient energy use in buildings is both increasingly expensive and unsustainable Indeed the reduction of the energy consumption of existing buildings is as least as important as the design of new low energy buildings Controlling energy use is one thing but it is important to assess or estimate it and to understand the range of interventions for reducing its use and the methods for assessing the cost effectiveness of these measures This comprehensive guide clearly and concisely covers the various issues from a theoretical standpoint and provides practical worked examples where appropriate along with examples of how the calculations are carried out Topics covered include where and how energy is used in buildings energy audits measuring and monitoring energy use techniques for reducing energy use in buildings legislative issues It provides a template for instigating the energy management process within an organization as well as guidance on management issues such as employee motivation and gives practical details on how to carry it through This book should appeal to building managers and facilities managers and also to students of energy management modules in FE and HE courses *CIBSE Guide B: 2016* ,2016 Combined index to CIBSE Guides 2016 B1 Heating including hot water systems and an appendix on hydronic systems which is also applicable to chilled water systems B2 Ventilation and ductwork B3 Air conditioning and refrigeration B4 Noise and vibration control for building services systems applicable to all systems Each chapter has an individual index but to facilitate cross referencing this combined index allows for navigation of topics across the complete Guide Page references are indicated by a prefix defining the chapter and a suffix referring to the page number For instance 1 22 represents chapter 1 page 22 European Building Construction Illustrated Francis D. K. Ching,Mark Mulville,2014-02-10 The first European edition of Francis DK Ching s classic visual guide to the basics of building construction For nearly four decades the US publication Building Construction Illustrated has offered an outstanding introduction to the principles of building

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