

DIN EN 13779:2007-09 (E)

Ventilation for non-residential buildings - Performance requirements for ventilation and room-conditioning systems

| Contents | | Page |
|---|--|-------------|
| Foreword | | 4 |
| Introduction | | 5 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 7 |
| 4 | Symbols and units | 9 |
| 5 | Agreement of design criteria | 10 |
| 5.1 | General | 10 |
| 5.2 | Principles | 10 |
| 5.3 | General building characteristics | 10 |
| 5.4 | Construction data | 11 |
| 5.5 | Geometrical description | 11 |
| 5.6 | Use of the rooms | 11 |
| 5.7 | Requirements in the rooms | 12 |
| 5.8 | System requirements | 13 |
| 5.9 | General requirements for control and monitoring | 13 |
| 5.10 | General requirements for maintenance and safety of operation | 13 |
| 5.11 | Process from project initiation to operation | 14 |
| 6 | Classification | 14 |
| 6.1 | Specification of types of air | 14 |
| 6.2 | Classification of air | 16 |
| 6.3 | System tasks and basic system types | 21 |
| 6.4 | Pressure conditions in the room | 22 |
| 6.5 | Specific fan power | 23 |
| 6.6 | Heat recovery | 24 |
| 7 | Indoor environment | 24 |
| 7.1 | General | 24 |
| 7.2 | Occupied zone | 25 |
| 7.3 | Thermal environment | 27 |
| 7.4 | Indoor air quality | 28 |
| 7.5 | Indoor air humidity | 30 |
| 7.6 | Acoustic environment | 31 |
| Annex A (informative) Guidelines for Good Practice | | 32 |
| Annex B (informative) Economic aspects | | 60 |
| Annex C (informative) Checklist for the design and use of systems with low energy consumption ... | | 61 |
| Annex D (informative) Calculation and application of Specific Fan Power Calculating and checking the SFP, SFPE, and SFPV | | 64 |
| Annex E (informative) Efficiency of ventilation and air diffusion | | 71 |
| Bibliography | | 72 |