DIN EN ISO 9053-2:2021-02 (E)

Acoustics - Determination of airflow resistance - Part 2: Alternating airflow method (ISO 9053-2:2020)

Contents

Page

European foreword ... **3**

Foreword ... **4**

1 Scope ... **5**

2 Normative references ... **5**

3 Terms and definitions ... **5**

4 Symbols ... **7**

5 Principle ... **9**

6 Equipment ... **10**
6.1 General ... 10
6.2 Device for producing the alternating airflow ... 10
6.3 Sound measuring device ... 11
6.4 Vessel and measurement cell ... 11
6.5 Device for measuring the static pressure ... 12
6.6 Device for measuring the frequency of the piston ... 12

7 Test specimens ... **12**
7.1 Homogeneity of test specimen ... 12
7.2 Shape ... 12
7.3 Dimensions ... 12
7.3.1 Lateral dimensions ... 12
7.3.2 Thickness ... 13
7.4 Number of test specimens ... 13

8 Test procedure ... **13**

9 Uncertainty ... **14**

10 Test report ... **15**

Annex A (normative) **Effective ratio of specific heats for air** ... **16**

Annex B (informative) **Acoustic model of the flow** ... **19**

Annex C (informative) **Calculation of uncertainty** ... **21**

Annex D (informative) **Airflow resistance of perforated support** ... **23**

Bibliography ... **24**