INTERNATIONAL STANDARD ISO 14695:2003
TECHNICAL CORRIGENDUM 1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Industrial fans — Method of measurement of fan vibration

TECHNICAL CORRIGENDUM 1

Ventilateurs industriels — Méthode de mesure des vibrations des ventilateurs

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 14695:2003 was prepared by Technical Committee ISO/TC 117, *Fans.*

Page 1, Normative references

Replace the references to ISO 1940-1, ISO 5801 and ISO 14694, respectively with the following:

ISO 1940-1, *Mechanical vibration — Balance quality requirements for rotors in a constant (rigid) state — Part 1: Specification and verification of balance tolerances*

ISO 5801:2007, *Industrial fans — Performance testing using standardized airways*

ISO 14694:2003, *Industrial fans — Specifications for balance quality and vibration levels*

Page 6, Figure 1, Note

Replace the third sentence of the note with the following:

> This figure is generally in accordance with Figure 44 a) of ISO 5801:2007 with the addition of a flexible connection and resilient mounts between the fan and ducting.

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Page 6, Figure 2, Note

Replace the fourth sentence of the note with the following:

This figure is generally in accordance with that given in Figure B.2 of ISO 5801:2007, but with the addition of a flexible connection and resilient mounts between the fan and the outlet cowl.

Page 21, A.3.2

Replace Equation (A.7) with the following:

$$C_2 = \left[\frac{1}{2} \left((1+B) + \sqrt{(1-B)^2 + \left(\frac{4\bar{z}^2}{r^2} \right)} \right) \right]^{1/2} \tag{A.7}$$

Page 22, A.3.2

Replace the second paragraph with the following:

In general, the effect of coupling is to increase the separation in frequency between the decoupled rocking and sway modes. Thus, the decoupled mode approach will tend to under-predict the rocking mode and over-predict the sway mode coupled frequencies which result when the vertical offset is not negligible.

Page 22, A.3.3, c) 1)

Replace Equation (A.11) with the following:

$$f_V = \frac{1}{2\pi} \left(\frac{\sum k_V}{\sum m} \right)^{1/2} \tag{A.11}$$

Page 24, A.3.3, c) 4)

In list item c) 4), before Equation (A.16), replace the first part of the paragraph, with the following:

4) Rocking mode (zx plane). If the one-third ratio between the vertical centre of gravity and the mount separation is not exceeded then the frequency of the rotational mode of vibration in the zx plane, f_R, in hertz (Hz), given below is approximately 5 % less than the corresponding frequency f_2 obtained by coupled mode analysis (see A.3.2):