ISO 13349-2:2022-09 (E)

Fans - Vocabulary and definitions of categories - Part 2 : Categories

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Symbols and units 1
4.1 Symbols 1
4.2 Multiples of primary units 2
4.3 Units of time 2
4.4 Temperature of air or gas 2

5 Fan categories 2
5.1 General 2
5.2 Suitability for the fan pressure 3
5.2.1 General 3
5.2.2 Work per unit mass 3
5.2.3 Fan categories 3
5.2.4 Changes in air density 3
5.3 Suitability of construction 4
5.3.1 Categorization according to casing construction 4
5.3.2 Designation for hot-gas fan 4
5.3.3 Designation and recommended categorization for smoke-ventilating fans 5
5.3.4 Categorization for gas-tight fans 5
5.4 Transmission arrangements 5
5.5 Inlet and outlet conditions 9
5.6 Method of fan control 10
5.7 Designation of direction of rotation and position of parts of the fan assembly 10
5.7.1 General 10
5.7.2 Direction of rotation 10
5.7.3 Outlet position of a centrifugal fan 12
5.7.4 Position of component parts of a centrifugal fan with volute casing 13
5.7.5 Position of component parts of an axial-flow, mixed-flow or other fan with coaxial inlet and outlet 13
5.7.6 Position of motor or other prime movers 14
5.8 Characteristic dimensions and component parts 16
5.8.1 Characteristic dimensions 16
5.8.2 Terms for fan component parts 16

Annex A (informative) Examples 24

Bibliography 26