ISO 23139:2023-08 (E)

Biological equipment for treating air and other gases - Requirements and application guidance for deodorization in wastewater treatment plants

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Odour gas characterization and process design 4
4.1 Odour gas characterization 4
4.2 Process design 4

5 Requirement for manufacture, installation and operation 5
5.1 Manufacture and installation 5
5.2 Start-up 6
5.3 Operation and maintenance 7

6 Performance assessment 7
6.1 Measurement of some specific indexes for odour gas 7
6.1.1 Flow rate, temperature and relative humidity of the odour gas 7
6.1.2 Pressure drop of the filter bed 8
6.1.3 Concentration of odorants 8
6.1.4 Odour concentration 8
6.2 Calculation of odorant removal efficiency 8
6.3 Calculation of odorant removal rate 8

7 Safety and secondary pollution control 9
7.1 Safety control 9
7.2 Secondary pollution control 9

Bibliography 10