

ISO 20468-9:2025-01 (E)

Performance evaluation of treatment technologies for water reuse systems - Part 9: Guidelines and requirements for electro-chlorination

Contents	Page
Foreword.....	iv
Introduction.....	v
1 Scope.....	1
2 Normative references.....	1
3 Terms, definitions and abbreviated terms.....	1
3.1 Terms and definitions.....	1
3.2 List of abbreviated terms.....	3
4 System components.....	3
4.1 Principles of electro-chlorination.....	3
4.2 System composition.....	5
4.2.1 NaOCl generating system.....	5
4.2.2 NaOCl storage and injection system.....	6
4.2.3 Monitoring point.....	7
4.2.4 Disinfection tank (contact unit).....	7
5 Performance requirements and evaluation methods.....	7
5.1 General.....	7
5.2 Functional requirements.....	7
5.2.1 General.....	7
5.2.2 Performance evaluation procedures.....	7
5.2.3 Monitoring procedure.....	8
5.2.4 Safety requirements.....	9
5.2.5 Disinfection by-product evaluation procedure.....	9
5.3 Non-functional requirements: economic evaluation procedures.....	10
5.3.1 General.....	10
5.3.2 Energy consumption according to the use of DC power supply.....	10
5.3.3 The amount of NaCl usage (kg NaCl / kg Cl ₂).....	10
Annex A (informative) Main treatment technologies and target constituents for water reuse.....	11
Annex B (informative) Main mechanism of electro-chlorination.....	12
Bibliography.....	13