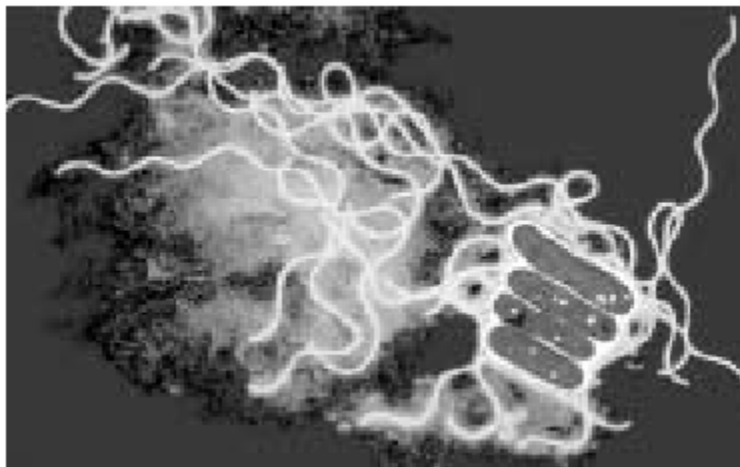


# **AS/NZS 3666 Part 3**

## **Air-Handling and Water Systems of Buildings**

### **Microbial Control - Performance Based Maintenance of Cooling Water Systems**

*This Australian Standard/New Zealand Standard considers a performance based approach to the maintenance of such building services systems and looks at the use and implementation of automated water treatment programs ....*



## **AS/NZS 3666 Part 3 - Air-Handling and Water Systems of Buildings - Microbial Control - Performance Based Maintenance of Cooling Water Systems**

The Australian Standard/New Zealand Standard AS/NZS 3666 Part 3 is concerned with the control of microorganisms, including Legionella bacteria within air handling and cooling water systems in commercial buildings.

AS/NZS 3666 Part 3 considers a performance based approach to the maintenance of such building services systems and looks at the use and implementation of automated water treatment programs, combined with monitoring, assessment and control strategies to help reduced the risks associated with microorganisms, such as Legionella bacteria in cooling water systems.

### **Additional Standards**

You should be aware that this standard, AS/NZS 3666 Part 3 only covers the performance of maintenance programs for cooling water systems and that it should be used together with AS/NZS 3666 Part 1 and the relevant clauses of AS/NZS 3666 Part 2. It is also important to note that issues including facilities and building maintenance manuals, site log books and health and safety procedures, are as important for the application of AS/NZS 3666 Part 3 as they are for a prescriptive approach to maintaining clean cooling water systems.

### **Contents of AS/NZS 3666 Part 3 Include:**

**Preface**

**Contents**

**Foreword**

**Section 1 Scope and General**

1.1 Scope

1.2 Objective

1.3 Functional Statement

1.4 Performance Requirements

## 1.5 Referenced Documents

## 1.6 Definitions

- 1.6.1 Cycles of concentration
- 1.6.2 Key performance indicator
- 1.6.3 Total dissolved solids (TDS)

## 1.7 Testing

# **Section 2 Identification and Assessment of Risk Factors**

## 2.1 Scope of Section

## 2.2 Risk Factors

## 2.3 Risk Assessment

## 2.4 Water Treatment

# **Section 3 Performance Monitoring and Control**

## 3.1 Scope of Section

## 3.2 Presence of Legionellae

- 3.2.1 Monitoring
- 3.2.2 Assessment
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## 3.3 Presence of Other Heterotrophic Microorganisms

- 3.3.1 Monitoring
- 3.3.2 Assessment
- 3.3.3 Control

## 3.4 Water Quality Management

- 3.4.1 Monitoring
- 3.4.2 Assessment
- 3.4.3 Control

### 3.5 Water Temperature

- 3.5.1 Monitoring
- 3.5.2 Assessment
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### 3.6 Start Up

### 3.7 Results and Records

### 3.8 Evidence of Compliance

## **Appendix A – Cooling Water Sampling Procedure**

- A1 Scope
- A2 Personnel Carrying Out Sampling
- A3 Sample Storage and Transport
- A4 Particulars of Sampling Containers
- A5 Particulars of Sampling
- A6 Technique of Sample Collection

## **Appendix B – On-Line Disinfection Procedure for Cooling Water Systems**

- B1 Scope
- B2 Biodispersant
- B3 Disinfection
- B4 Circulation
- B5 Operation

## **Appendix C – Decontamination Procedures for Cooling Water Systems**

- C1 Scope
- C2 On-Line Decontamination
- C3 System Decontamination



## **Additional Information & Expert Assistance**

For further information and expert assistance please contact:

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