



*NSF International Standard /  
American National Standard*

## **NSF/ANSI 50 - 2008**

**Equipment for Swimming Pools, Spas,  
Hot Tubs and Other Recreational  
Water Facilities**



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Equipment for Swimming Pools,  
Spas, Hot Tubs and other  
Recreational Water Facilities—

Evaluation criteria for materials, components,  
products, equipment and systems for use at  
recreational water facilities

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## Foreword<sup>2</sup>

The purpose of this Standard is to establish minimum materials, design and construction, and performance requirements for components, products, equipment and systems, related to public and residential recreational water facility operation.

If a value for measurement is followed by a value in other units in parenthesis, the second value may be only approximate. The first stated value is the requirement.

In this edition of NSF/ANSI 50 the following revisions were incorporated:

- The definition of a self-prime pump was updated to a minimum of 5 feet of vertical lift or the manufacturer's specified vertical lift, whichever is greater. Additionally, the maximum vertical lift height must be specified on the data plate.
- Safety Vacuum Release Systems (SVRS) requirements for the evaluation and testing were added.
- Incorporated requirements for skimmer testing, including UV exposure, point load and deflection testing for skimmer lids; and requirements for water levels and flow rates.
- The normative references were updated.
- The name and scope of the standard were updated to reflect recreational water facility operation which includes spas, pools, and hot tubs.

This Standard was developed by the NSF Joint Committee on Swimming Pool and Spa Equipment using the consensus process described by the American National Standards Institute.

Suggestions for improvement of this Standard are welcome. Comments should be sent to Chair, Joint Committee on Swimming Pools and Spa Equipment, c/o NSF International, Standards Department, P.O. Box 130140, Ann Arbor, MI 48113-0140, USA.

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## NSF/ANSI Standard

### Equipment for Swimming Pools, Spas, Hot Tubs and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment and systems for use at recreational water facilities

## **1 General**

### **1.1 Scope**

This Standard covers materials, components, products, equipment and systems, related to public and residential recreational water facility operation. This Standard is not intended to cover components intended to treat water exceeding a total dissolved solids concentration of 3000 ppm.

### **1.2 Variations in design and operation**

A component varying in design and/or operation may qualify under this Standard. Appropriate tests and investigations shall indicate that the component performs as well as components conforming to this Standard. Such components shall meet the requirements for materials, finishes, and construction in this Standard.

### **1.3 Alternate materials**

If specific materials are mentioned, other materials equally satisfactory from the standpoint of public health may be permitted.

### **1.4 Standard review**

A complete review of this Standard shall be conducted at least every five years. These reviews shall be conducted by representatives from the industry, public health, and user groups, or agencies of the NSF Joint Committee on Swimming Pool Equipment.

### **1.5 Normative references**

The following documents contain provisions that, through reference in this text, constitute provisions of this Standard. At the time of publication, the indicated editions were valid. All standards are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the standards indicated below.