

**American Society of Sanitary Engineering  
Seal (Certification) Program**

**Laboratory Evaluation Report for:  
Commercial Dishwashing Machines**

**Tested under ASSE Standard 1004 Revised: 2008**

**Laboratory File Number** \_\_\_\_\_

**Manufacturer** \_\_\_\_\_

**Address** \_\_\_\_\_

**Model No.** \_\_\_\_\_

**Serial No.** \_\_\_\_\_

General information and instructions for the testing engineer:

Within the text there may be items which are only advisory to conditions which experience indicates could be troublesome. It is not for evaluation related to acceptance of the product.

There may be other items for which the judgment of the test engineer will be involved. Should there be a question of compliance with that provision of the standard, a conference with the manufacturer should be arranged to enable a satisfactory solution of the question.

Should disagreement persist and compliance remain in question by the test agency, the agency shall, if the product is in compliance with all other requirements of the standard, file a complete report on the questionable items together with the test report, for evaluation by the ASSE Seal Control Board. The Seal Control Board will then review and rule on the question of compliance with the intent of the standard item involved.

Documentation of material compliance must be furnished by the manufacturer. He shall furnish to the testing agency, a bill of material which clearly identifies the material of each part included in the product construction. This identification must include any standards which relate thereto.

Date devices received by test laboratory: \_\_\_\_\_

Date testing began: \_\_\_\_\_ Date testing completed: \_\_\_\_\_

Were the test units production models or prototypes? \_\_\_\_\_

Were the test units free of observable damage?  Yes  No

Were all tests performed on-site at the selected laboratory?  Yes  No

If off-site, identify location and testing: \_\_\_\_\_

## 1.0 General

### 1.1 Application

1.1.1 Does this machine comply with the application portion of this standard?

- Yes  
 No  
 Questionable

If questionable, explain: \_\_\_\_\_

### 1.2 Scope

Which type of backflow prevention device was utilized with this machine?

- A: An air gap complying with ASME A112.1.3  
 B: An atmospheric type vacuum breaker complying with ASSE 1001  
 C: A hose connection vacuum breaker complying with ASSE 1011  
 D: A hose connection vacuum breaker complying with ASSE 1052

### 1.3 Location of Backflow Prevention Devices

Describe the location of the backflow prevention device: \_\_\_\_\_

### 1.4 Water Supply Piping

Describe how the water supply piping was protected from coming into direct contact with the liquid in the tank: \_\_\_\_\_

## 2.0 Specimens

### 2.1 Samples Submitted for Test

State the number of devices provided for the laboratory evaluation: \_\_\_\_\_

### 2.2 Samples Tested

How many devices were utilized during the laboratory evaluation? \_\_\_\_\_

If more than one (1) device was used, explain: \_\_\_\_\_

### 2.3 Drawings

Were assembly drawings, installation instructions and other technical data which are needed to determine compliance with this standard submitted to the laboratory?

- Yes  
 No

Were these drawings and other data reviewed by the laboratory?

Yes  
 No

### 3.0 Performance Requirements and Compliance Testing

#### 3.1 Back-Siphonage Test

Dishwashing machine was filled with water \_\_\_\_\_°F (\_\_\_\_\_°C)

Size of fouling wire inserted into backflow prevention device? \_\_\_\_\_ inches (\_\_\_\_\_ mm)

For instantly applied vacuum, distance from bottom of backflow prevention device to maximum rise of suds, splash, spray or liquid in sight glass: \_\_\_\_\_ inches (\_\_\_\_\_ mm)

For intermittent vacuums, distance from bottom of backflow prevention device to maximum rise of suds, splash, spray or liquid in sight glass: \_\_\_\_\_ inches (\_\_\_\_\_ mm)

For slowly applied and decreasing vacuums, distance from bottom of backflow prevention device to maximum rise of suds, splash, spray or liquid in sight glass: \_\_\_\_\_ inches (\_\_\_\_\_ mm)

During these back-siphonage tests, was there any rise in the sight glass above 3.0 inches (76.2 mm), above the bottom of the backflow prevention device?

Yes  
 No

#### 3.2 Air Gap Observation

What was the vertical distance of the air gap? \_\_\_\_\_ inches (\_\_\_\_\_ mm)

What was the diameter of the supply orifice? \_\_\_\_\_ inches (\_\_\_\_\_ mm)

### 4.0 Detailed Requirements

#### 4.1 Materials

Were there any solders or fluxes in contact with the potable water supply in excess of 0.2%?

Yes  
 No

Were there any metal alloys in contact with the potable water supply in excess of 8% lead?

Yes  
 No

#### 4.2 Markings

Identify the markings of the dishwashing machine:

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_

How were these markings applied? \_\_\_\_\_

How was the backflow prevention device on these units identified? \_\_\_\_\_

#### 4.3 Installation Instructions

Were installation instructions packaged with the dishwashing machine?

Yes  
 No

Did these instructions include a statement indicating that the backflow prevention device contained within the machine is an ASSE approved device?

Yes  
 No

TESTING AGENCY \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

TEST ENGINEER(S) \_\_\_\_\_

We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.

Signature of the official of the agency:

\_\_\_\_\_

Title of the official: \_\_\_\_\_

Date: \_\_\_\_\_

Signature and seal of the Registered Professional Engineer  
supervising the laboratory evaluation:

\_\_\_\_\_

Signature



Seal