

Test Results Report

Certified water quality inspection laboratory of the Ministry of Health and Welfare
Certified Food Testing Laboratory of the Minister of Health and Welfare
Measurement certifying business
Work environment measuring laboratory
Certified localized waterworks inspection laboratory
Member of the All Japan Federation of Occupational Health Organizations
Registered health examination and work environment measuring laboratory for the subsidy system
for collaborative safety and hygiene improvement projects
Registered clinical laboratory of Ishikawa Prefecture
Ishikawa Prefecture Branch of the Preventive Medicine Business Central Society
Ishikawa Prefecture Branch of the Japan Parasite Prevention Association



Ishikawa Prefecture Preventive Medicine Association

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No. 1206843
August 24, 2001

To: Appliance Product Development Center
Appliance Systems Group,
Sharp Corporation
3-1-72 Kitakamei-cho, Yao, Osaka Prefecture

Ishikawa Prefecture Preventive Medicine Association

Certified Food Testing Laboratory of the Minister of
Health and Welfare
Minister of Health and Welfare Certification No. 554

Certification acquired: September 21, 1979

Test Results Report

The results of testing on the sample submitted on June 1, 2000 are as indicated in the attachment.

Contact:

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Test Results Report

No. 120684301

Client address:	3-1-72 Kitakamei-cho, Yao, Osaka Prefecture
Client name:	Appliance Product Development Center, Appliance Systems Group, Sharp Corporation
Date of request:	June 1, 2000
Tested product:	Air purifier model FU-L40X
Test performed:	Sterilization performance test

Test method

Conditions set for the test equipment are as described below.

Test room air space: Roughly equivalent to a three tatami-mat room

Test equipment air capacity: Forced air flow

Filter: None

Cluster: Stopped This was used as the control test.

Test room air space: Roughly equivalent to a three tatami-mat room

Test equipment air capacity: Forced air flow

Filter: None

Cluster: Operating This was used as the operating test.

Experimental method

E. coli were disseminated in the control test room, the test equipment was turned on and the suspended bacteria count was measured for each duration of elapsed time using an air sampler. The air samplers of Biotest, Hyton and RCS were used, and samples were collected for 4 minutes at 40 liters per minute followed by culturing colonies and counting their number.

Results

The results are as described later. Bacteria count decreased to 18% after 60 minutes when compared with the control test, and significant differences in the removal of suspended bacteria were observed depending on the operating time.

Testing facility:	Ishikawa Prefecture Preventive Medicine Association
Testing period:	June 1 to June 15, 2000
Testing supervisor:	Kazuto Suzuki

Test Results Report

No. 120684302

Client address:	3-1-72 Kitakamei-cho, Yao, Osaka Prefecture
Client name:	Appliance Product Development Center, Appliance Systems Group, Sharp Corporation
Date of request:	June 1, 2000
Tested product:	Air purifier model FU-L40X
Test performed:	Sterilization performance test

The results for the control test and operating test are as described below.

Actual counts

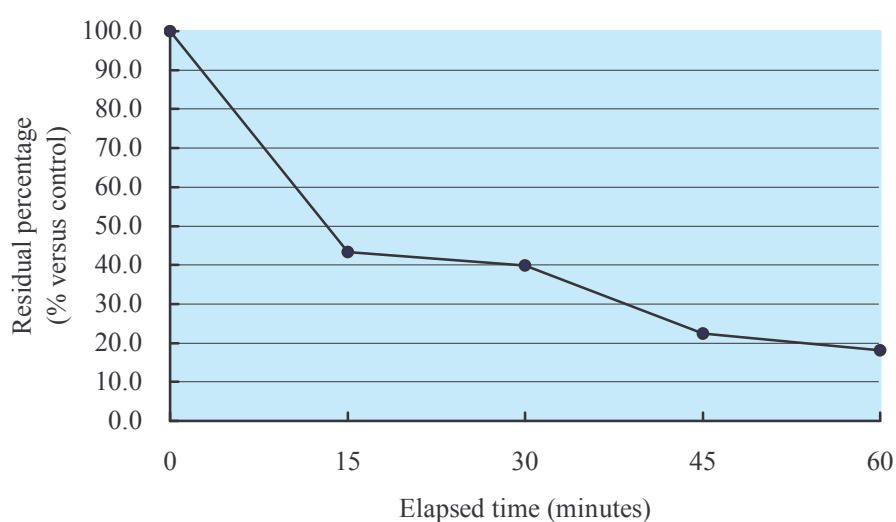
Elapsed time after operation started	Control test	Operating test
0 minutes	164	120
15 minutes	145	46
30 minutes	120	35
45 minutes	110	18
60 minutes	90	12

Values are indicated as a percentage of the number of bacteria remaining compared with the control (residual percentage versus control) due to variations in the numbers of bacteria disseminated for each test.

Residual percentage versus control

Elapsed time after operation started	Residual percentage versus control
0 minutes	100.0%
15 minutes	43.3%
30 minutes	39.9%
45 minutes	22.4%
60 minutes	18.2%

Residual percentage of *E. coli*



Testing facility:	Ishikawa Prefecture Preventive Medicine Association
Testing period:	June 1 to June 15, 2000
Testing supervisor:	Kazuto Suzuki

Test Results Report

No. 120684303

Client address:	3-1-72 Kitakamei-cho, Yao, Osaka Prefecture
Client name:	Appliance Product Development Center, Appliance Systems Group, Sharp Corporation
Date of request:	June 1, 2000
Tested product:	Air purifier model FU-L40X
Test performed:	Sterilization performance test
Test method Conditions set for the test equipment are as described below. Test room air space: Roughly equivalent to a three tatami-mat room Test equipment air capacity: Forced air flow Filter: None Cluster: Stopped This was used as the control test. Test room air space: Roughly equivalent to a three tatami-mat room Test equipment air capacity: Forced air flow Filter: None Cluster: Operating This was used as the operating test.	
Experimental method <i>E. coli</i> were disseminated in the control test room, the test equipment was turned on and the suspended bacteria count was measured for each duration of elapsed time using an air sampler. The air samplers of Biotest, Hyton and RCS were used, and samples were collected for 4 minutes at 40 liters per minute followed by culturing colonies and counting their number.	
Results The results are as described later. Bacteria count decreased to 14% after 90 minutes when compared with the control test, and significant differences in the removal of suspended bacteria were observed depending on the operating time.	
Testing facility:	Ishikawa Prefecture Preventive Medicine Association
Testing period:	June 1 to June 15, 2000
Testing supervisor:	Kazuto Suzuki

Test Results Report

No. 120684304

Client address:	3-1-72 Kitakamei-cho, Yao, Osaka Prefecture
Client name:	Appliance Product Development Center, Appliance Systems Group, Sharp Corporation
Date of request:	June 1, 2000
Tested product:	Air purifier model FU-L40X
Test performed:	Sterilization performance test

The results for the control test and operating test are as described below.
However, measurements were performed 30 minutes after dissemination.

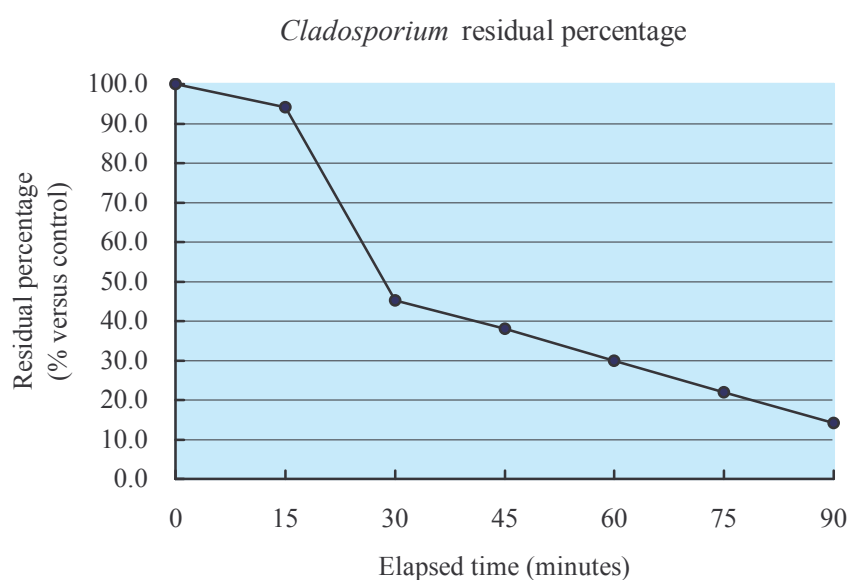
Actual counts

Elapsed time	Control test	Operating test
0 minutes	26	23
15 minutes	12	10
30 minutes	10	4
90 minutes	8	1

Values are indicated as a percentage of the number of bacteria remaining compared with the control (residual percentage versus control) due to variations in the numbers of bacteria disseminated for each test.

Residual percentage

Elapsed time	Residual percentage versus control
0 minutes	100.0%
15 minutes	94.2%
30 minutes	45.2%
90 minutes	14.1%



Testing facility:	Ishikawa Prefecture Preventive Medicine Association
Testing period:	June 1 to June 15, 2000
Testing supervisor:	Kazuto Suzuki