



**SIRIM QAS International Sdn.Bhd.** (Company No. : 410334-X)  
CHEMICAL TESTING SECTION, Building 16, No.1, Persiaran Dato' Menteri, P.O.Box 7035, Section 2, 40911 Shah Alam,  
Selangor Darul Ehsan, Malaysia  
Tel. no: 03-55446651/55446658 Fax. no: 03-55446688

## TEST REPORT

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Applicant : DEHNE ENTSTAUBUNGSTECHNIK (M) SDN. BHD.  
Lot 5249, Jalan BS 7/1  
Kawasan Perindustrian Bukit Serdang  
43300 Seri Kembangan  
Selangor Darul Ehsan

Product : Air Sterilizer (Plasma O<sub>2</sub>)

Reference standard/ Method of test : In-house Method  
1) Aerobic bacteria count  
2) Yeast and mould count

Description of sample: Received one (1) sample of Air Sterilizer (Plasma O<sub>2</sub>) for testing which was marked as:  
**Brand : Air Net**  
**Model : Air Net**

Date received : 10<sup>th</sup> February 2004

Job No. : 04TSC0382

Issue date : 24<sup>th</sup> February 2004

  
(HAHNAS MAHBUT)  
Senior Technical Executive

  
(DR. PUZIAH HASHIM)  
Senior Manager  
Chemical Testing Section  
Building 16  
SIRIM QAS International Sdn. Bhd.

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### Test Result

Sample : Air Sterilizer (Plasma O<sub>2</sub>)

Brand : Air Net

Model : Air Net

### Objective :

- 1) To determine an aerobic bacteria count in an assigned room before and after operating the Air Sterilizer (Plasma O<sub>2</sub>).
- 2) To determine the yeast and mould count in an assigned room before and after operating the Air Sterilizer (Plasma O<sub>2</sub>).

### Test condition :

Size of assigned room : 12 ft x 6 ft  
Volume of room : 1920 ft<sup>3</sup>  
Date of study : 17 - 18<sup>th</sup> February 2004

### Test procedure :

- 1) The "fall out" plate technique was used to determine an aerobic bacteria count and also yeast and mould count in an assigned room. Plate count agar and Sabouraud Dextrose Agar were expose for 30 minutes to the environment of the assigned room. The blower of air condition of the assigned room was "on". The details of the test procedures are as follows :
  - i) Before switching on the air sterilizer, the plate were exposed for 30 minutes.
  - ii) After 16 hrs switching on the air sterilizer at potentiometer 7.5, the plates were exposed for 30 minutes.
  - iii) Then operate the air sterilizer for another 8 hrs at potentiometer 10, the plates were exposed for 30 minutes.

Then the plates were incubated at the following conditions :

- i) Plate count agar at 35°C for 48 hrs.
- ii) Sabouraud Dextrose Agar at 35°C for 5 days. The microbial growth was examined and counted. The test results of microbial growth are in Table I and Table II.

  
**HAHNAS MAHBUT**  
Senior Technical Executive  
Chemical Testing Section  
SIRIM QAS International Sdn. Bhd.  
(Formerly known as SIRIM QAS Sdn Bhd)

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### Test Result

Table I : The test results for aerobic bacteria count

Aerobic bacteria count, cfu		
Without operating air sterilizer	With operating air sterilizer	
	After 16 hrs of Air Net operation Potentiometer : 7.5	After another period of 8 hrs of Air Net operation Potentiometer : 10
67	13	12

Table II : The test results for yeast and mould count

Yeast and mould count, cfu		
Without operating air sterilizer	With operating air sterilizer	
	After 16 hrs of Air Net operation Potentiometer : 7.5	After another period of 8 hrs of Air Net operation Potentiometer : 10
35	6	8

  
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