

## DUST TEST REPORT

Company : Gold Apollo Co., Ltd  
Model Name : A27  
Date of Received : APR. 19, 2006  
Date of Tested : APR. 19, 2006

### TESTING LABORATORY IS ACCREDITED BY:

ISO/IEC/IECQ 17025 Certificate of Independent Test Laboratory Approval  
Certificate No. : T1091  
ISO/IEC 17025 accredited in respect of laboratory is approved by TAF  
Certificate No. : L0835-060321

### WE HEREBY CERTIFY THAT:

The test shown in the attachment was made in accordance with the procedures indicated. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all persons taking them.

	Name	Signature	Date
Testing Engineer	Lex Tseng		
Approving Manager	General Lee		

### **Notes :**

1. This report will be invalid if duplicated or photocopied in part.
2. This report refers only to the specimen(s) submitted to test, and is invalid as separately used.
3. This report is invalid without examination stamp and signature of this institute.
4. The tested specimen(s) will be preserved for thirty days from the date issued, if not taken back by the applicant



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## **1. GENERAL INFORMATION**

### **1.1 DESCRIPTION OF UNIT**

MANUFACTURER : Gold Apollo Co., Ltd

MODEL NAME : A27

SAMPLE QUANTITY : 1 unit

### **1.2 UNIT TESTING SETUP: See attachment**

### **1.3 UNIT OPERATING CONDITION: None**

Before, during and after operating test, the unit keeps power on and functional.

## 2. DUST TEST

### 2.1 DESCRIPTION OF TEST EQUIPMENT

Test Equipment	Serial Number	Calibration Date
Vötsch- VDT 1000A	59566059640010	OCT. 08, 2005

### 2.2 LABORATORY AMBIENCE CONDITION

Temperature : 25±2°C

Relative humidity : 55%± 2%(RH)

### 2.3 REFERENCE DOCUMNET

This test is based on IEC60529 IP5X Dust Test Protected

### 2.4 TEST CONDITION

Unit is functional.

Dust material : Talcum powder (100% dry fine)

Particle size : 7.2 ~ 9.2 µm (Diameter)

Dust density : 2.7 ~ 2.9 g/cm<sup>3</sup>

Amount of talcum power : 2 kg/m<sup>3</sup> (chamber volume)

Air direction : Vertically to achieve slowest possible downward settlement

Duration of exposure : 2 hours

### 2.5 SUMMARY OF TEST

After test, no dust permeated into the unit by visual inspection and no functional degradation was noticed.

**Attachment 1 : Photo for dust test setup**



**Attachment 2 : Photo for after dust test**



**Attachment 3 : Photo for unit after dust test**



# RAIN TEST REPORT

Company : Gold Apollo Co., Ltd  
 Model Name : A27  
 Date Received : SEP 20, 2007  
 Date Tested : SEP 20, 2007

## TESTING LABORATORY IS ACCREDITED BY:

IEC/IECQ 17025 certificate of independent test laboratory approval

Certificate No. : T1091

ISO 17025 accredited in respect of laboratory is approved by TAF

Certificate No. : L0835-060321

ISO 9001 certificate is approved by TUV CERT certification body of TUV NORD Cert GmbH

## WE HEREBY CERTIFY THAT:

The test(s) shown in the attachment were conducted according to the indicating procedures. We assume full responsibility for the accuracy and completeness of these tests and vouch for the qualifications of all personnel performing them.

	Name	Signature	Date
Test Engineer	Lex Tseng	<i>Lex Tseng</i>	Sep 21, 2007
Section Manager	Longson Lin	<i>Longson Lin</i>	Sep 21, 2007

## **Note :**

1. This report will be invalid if reproduced in whole or in part.
2. This report refers only to the specimen(s) submitted to test, and is invalid if used separately.
3. This report is ONLY valid with the examination seal and signature of this institute.
4. The tested specimen(s) will only be preserved for thirty days from the date issued, if not collected by the applicant.





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## **1. GENERAL INFORMATION**

### **1.1 DESCRIPTION OF UNIT**

MANUFACTURER : Gold Apollo Co., Ltd

MODEL NAME : A27

SAMPLE QUANTITY : 1 unit

**1.2 UNIT TESTING SETUP: see attachment**

**1.3 UNIT OPERATING CONDITION: none**



## 2. RAIN TEST

### 2.1 DESCRIPTION OF TEST EQUIPMENT

Test Equipment	Serial Number	Calibration Date
Vötsch-Spray and Splash Water VSPT 400	59566059660010	NOV 09, 2006

### 2.2 LABORATORY AMBIENCE CONDITION

Temperature :  $23\pm 3^{\circ}\text{C}$

Relative humidity :  $55\%\pm 3\%$  (RH)

### 2.3 REFERENCE DOCUMENT

This test method refers to IEC/EN 60529 IPX4. Unit setup follows client's demand.

### 2.4 TEST CONDITION

Unit power was kept off during test.

Radius of oscillating tube : 400 mm

Spray angle :  $\pm 180^{\circ}$  from vertical

Diameter of nozzle : 0.4 mm

Number of open holes : 25

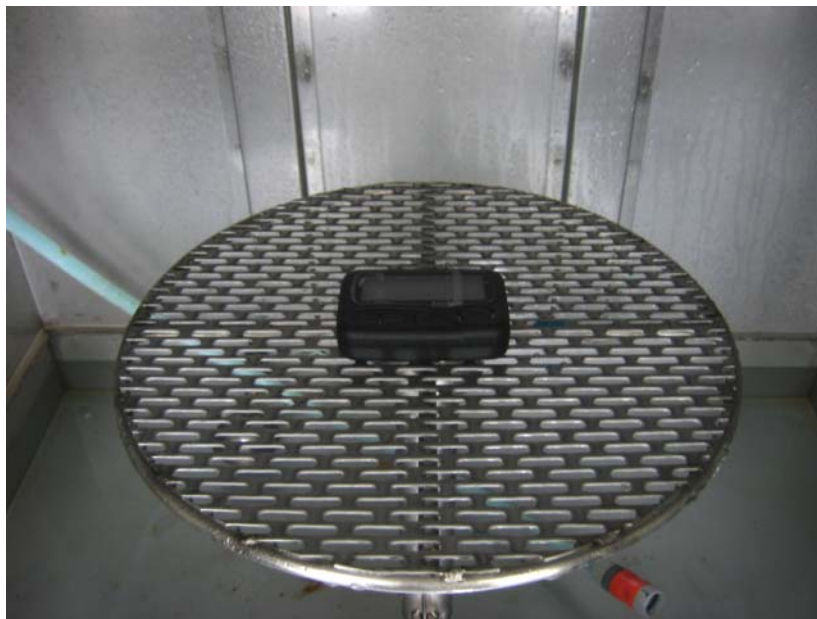
Water flow rate : 0.07 l/minute per hole (Total : 1.8 l/minute)

Test duration : 10 minutes.

### 2.5 SUMMARY OF TEST

After testing, the unit inner was dry (no water permeate). No functions check requested from client

### Attachment 1 : Photo of rain test setup



### Attachment 2 : Photo of unit after rain test

