



Product Service

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## Technical Report No. 71386222

Rev. 0

Dated 2011-08-24

Client: Aura GmbH  
Herr Kaya  
Jourdanallee 29-31  
D-64546 Mörfelden-Walldorf

Manufacturing place: Aura GmbH  
Zeppelinstrasse 2  
D-64546 Mörfelden-Walldorf

Test subject: Product: vacuum cleaner for household use  
Type: Roboclean 114F

Test specification: DIN EN 60312: 2008, clause 2.10

Purpose of examination: Test according to the test specification:  
determination of the dust emission of the vacuum cleaner

Test result: see clause 3 of this technical report

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## 1 Description of the test subject

### 1.1 Function

Manufacturer's specification for intended use:

- only for dry dust

Manufacturer's specification for predictive misuse:

- suction of water is not allowed
- do not use the appliance for burning and smoking material
- do not use the appliance for flammable liquids
- do not use the appliance for fat, soot, ceramic dust, lime stone dust
- do not use the appliance for toxic and volatile materials

### 1.2 Consideration of the foreseeable misuse

- Not applicable
- Covered through the applied standard
- Covered by the following comment
- Covered by attached risk analysis

### 1.3 Technical Data

rated voltage: 220-240 V AC 50-60 Hz  
rated power: 1000+150 W  
protection class: II



## 2 Order

### 2.1 Date of Purchase Order, Customer's Reference

28.01.2011, Mr. Kaya

### 2.2 Receipt of Test Sample

15.08.2011

### 2.3 Date of Testing

22.08.2011 – 24.08.2011

### 2.4 Location of Testing

TÜV SÜD Product Service GmbH, Daimlerstraße 40, D-60314 Frankfurt

### 2.5 Points of Non-compliance or Exceptions of the Test Procedure

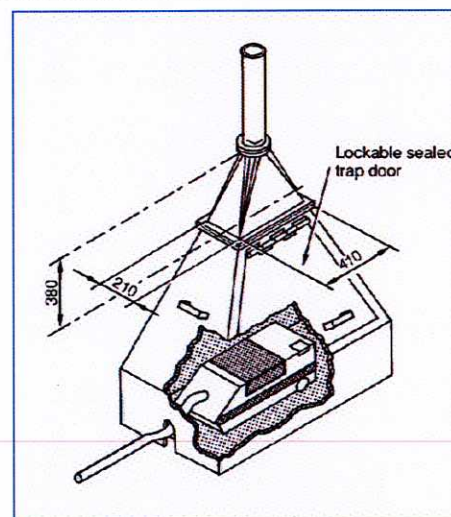
non

## 3 Test Results

The purpose of this test is to determine the average dust concentration in the exhaust air of a vacuum cleaner when operating at its maximum air flow and fed with test dust at a specified rate ( $c = 0,550 \text{ g/m}^3$ ).

The vacuum cleaner was placed centrally under the test hood and equipped appropriately. After a 10 minute run-up time or after the volumetric flow and the temperature of the air leaving the cleaner had stabilized, the calculated quantity of test dust was dispersed for 2 min and appropriate measurements taken.

During the measuring period, the number of particles of predefined sizes in the extraction chimney of the test hood was recorded using an optical particle counter.



Testing hood for measurement of dust emission



Product Service

Five tests were carried out. An upper confidence value  $E_{0,95}$  was obtained for the emissions from the results of the individual tests by summing all the counter events in the individual classes.

Emission in  $\text{mg}/\text{m}^3$                        $E_{0,95} = 0,1817 \text{ mg}/\text{m}^3$

With the emission and the concentration  $c$  in the intake air ( $c = 0,550 \text{ g}/\text{m}^3$ ) the separation degree (A) can be calculated:

$$A = (c - E_{0,95}) / c$$

Separation degree in %                       $A = 99,9930 \%$

#### 4 Remark

The test results refer to the tested appliance. Modifications to the product can influence the characteristics of the appliance.

#### 5 Documentation

Delivered documentation:

- manual
- warranty and service terms

TÜV SÜD Product Service GmbH

TÜV SÜD Product Service GmbH

Technical Report checked

Engineer

i.A. Dipl.-Ing. Horst Kristen  
Test Factory FRANKFURT

i.A. Dipl.-Ing. Frank Feihle  
Test Factory FRANKFURT

