



VDE Prüfbericht / VDE Test Report

Prüfbericht Nr. Report No.	238373-AS8-2
VDE-Aktenzeichen VDE File No.	5020160-2612-0002/238373
Ausstellungsdatum Date of issue.....	2017-08-28
Labor Laboratory	VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute
Adresse Address	Merianstrasse 28 63069 Offenbach/Main; Germany
Prüf-ort / Adresse Testing location/ address	Merianstrasse 28 63069 Offenbach/Main; Germany
Auftraggeber Applicant's name	PlasmaMade b.v.
Auftraggeber Adresse Applicant's address	Achthoevenweg 30; 7951SK STAPHORST; NETHERLANDS
Angewandte Norm(en) Applied standard(s)	DIN EN 60335-1 (VDE 0700-1):2012-10; EN 60335-1:2012 DIN EN 60335-1 Ber.1 (VDE 0700-1 Ber.1):2014-04; EN 60335-1:2012/AC:2014 EN 60335-1:2012/A11:2014 DIN EN 60335-2-65 (VDE 0700-65):2013-02; EN 60335-2- 65:2003+A1+A11:2012
Art des Prüflings Test item description	GeruchsfILTER Odour filter
Warenzeichen Trade Mark	PLASMA MADE
Typenbezeichnungen(en) Type reference(s)	GUC1214
Bemessungsdaten Ratings	12 V DC; 1,5 A

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Haftungsausschluss / Disclaimer:					
Dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke. Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden. <i>This test report contains the result of a singular investigation carried out on the product submitted. A sample of this product was tested to found the accordance with the thereafter listed standards or clauses of standards resp.</i> <i>The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below.</i> <i>Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.</i>					



Zustand des Prüfmusters Test sample condition	☒ Unbeschädigtes Prüfmuster Non-damaged sample	
	Bemerkung / Remark:	
Wareneingang Prüfmuster Sample entry date	2017-07-19	
Datum der Durchführung der Prüfungen Date (s) of performance of tests.....	2017-08-07 – 2017-08-25	

Geprüft und ausgestellt von: Tested by.....		
Name / Name, Unterschrift / Signature	Christian Jung (Autorisierung des Prüfberichtes Authorization of test report)	
Funktion / Function	Prüfingenieur / Testing engineer	
Überprüft von / Verified by.....		
Name / Name, Unterschrift / Signature	Norbert Storch	
Funktion / Function	Reviewer	

Fertigungsstätten Factory(ies).....	Not indicated
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Mögliche Prüfergebnisse Possible test case verdicts:	
Prüfung nicht anwendbar Test case does not apply to the test object :	N/A
Prüfung erfüllt (positiv) Test object does meet the requirement..... :	P (Pass)
Prüfung nicht erfüllt (negativ) Test object does not meet the requirement :	F (Fail)



Abschließendes Prüfergebnis <i>Final Verdict:</i>	
Bemerkung / <i>Remark</i> :	Directly after 24h operation of the appliance the ozone concentration in the test chamber was measured. The value did not exceed the limit of the percentage of 5×10^{-6} ozone in the room. The result as described in clause 32 is written within this report. The graph of the input current during the test describes the behaviour of the filter during 24h. (see section Figure 1).

Umgebungsbedingungen (falls relevant) <i>Environmental conditions (if applicable)</i>	Umgebungstemperatur <i>Ambient temperature</i>	Atmosphärischer Druck <i>Atmospheric pressure</i>	Relative Luftfeuchtigkeit <i>Relative humidity</i>
Nennwert / <i>Rated values</i>	15-35 °C	860-1060 hPa	20 – 70 %
Überprüfter Wert / <i>Verified values</i>	23 ± 2 °C	Bereich bestätigt von: Deutscher Wetterdienst <i>Range confirmed by:</i> Deutscher Wetterdienst (<i>Meteorological service</i>)	20 – 70 %

Test Setup

The odour filter was operated according to the manufacturers specifications operation with a range hood (Opera 70X 4HPB) in the highest mode for 24 h. The odour filter was operated with a power supply (Adapter Tech. Input: 100-240 V AC; 50/60 Hz; 0,58A; Output: 12 V DC; 2A) at 230 V AC.



Odour filter GUC1214 with range hood in test chamber.

The manufacturer designed safety protocol has the following description:

1. Plug in filter without airflow.!! Than the blue light is blinking for 5 sec, for calibrating the sensors.
2. Red light is burning, than the filter is standby.
3. Start up the hood, and after 1 minute with constant air flow the filter will start.
4. When the hood is running the filter works max 120 Min. when you not turn out the hood the filter is in safety modus.



Testing performed

32 Radiation, toxicity and similar hazards

The ozone concentration produced by ionization shall not be excessive.

Compliance is checked by the following test, which is carried out in a room without openings having dimensions of 2,5 m x 3,5 m x 3,0 m, the walls being covered with polyethylene sheet. The appliance is positioned in accordance with the instructions. Appliances used on a table are placed in the center of the room approximately 750 mm above the floor.

The room is maintained at approximately 25 °C and 50 % relative humidity. The appliance is supplied at rated voltage for 24 h, removable filters being removed if this is more unfavorable.

The ozone sampling tube is to be located in the air stream 50 mm from the air outlet of the appliance. The background ozone concentration measured prior to the test is subtracted from the maximum concentration measured during the test.

The percentage of ozone in the room shall not exceed 5×10^{-6} .

Gas detection test result

Blind value of the test chamber was measured before the test was started.

Sample	Operation	Ozone O ₃	Threshold limit Ozone O ₃	Rating against threshold as given in EN 60335-2-65 (Ed.2.1 Clause 32)
17-314 Blind Value	on 15.08.2017 09:30h	< 0.05 ppm	0.05 ppm	P
17-314 PlasmaMade	on 15.08.2017 11:30h after 2h	< 0.05 ppm	0.05 ppm	P
17-314 PlasmaMade	on 16.08.2017 09:30h after 24h	< 0.05 ppm	0.05 ppm	P
17-314 PlasmaMade	on 17.08.2017 09:30h after 45min	< 0.05 ppm	0.05 ppm	P

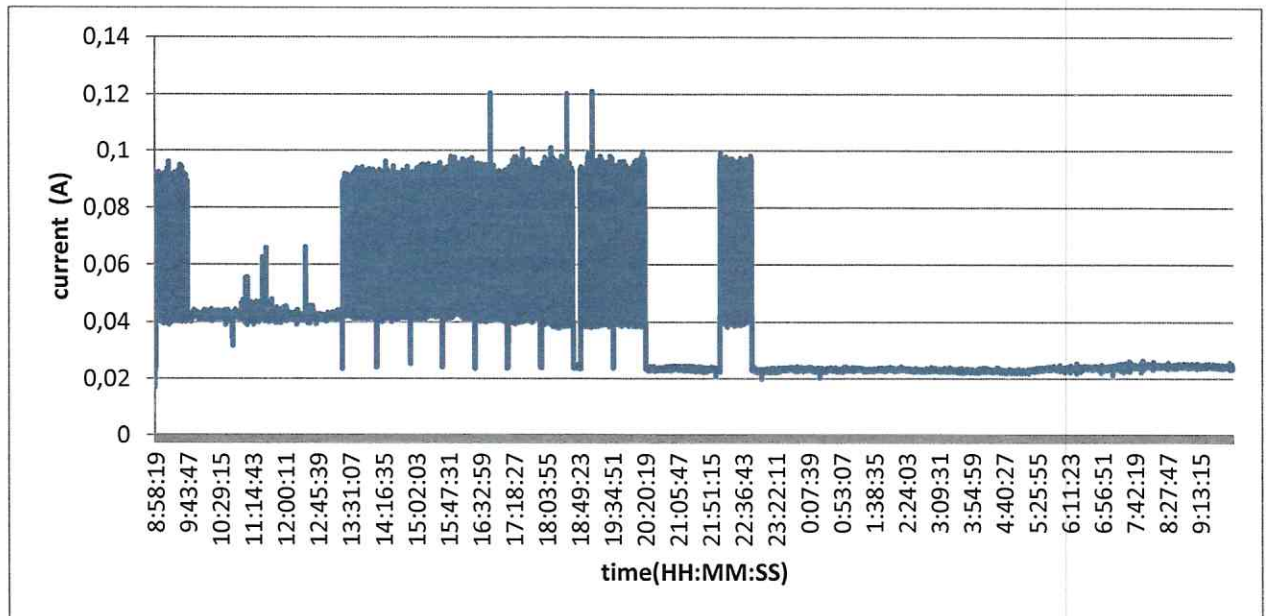


Figure 1: input current recorded over 24 hours operating.

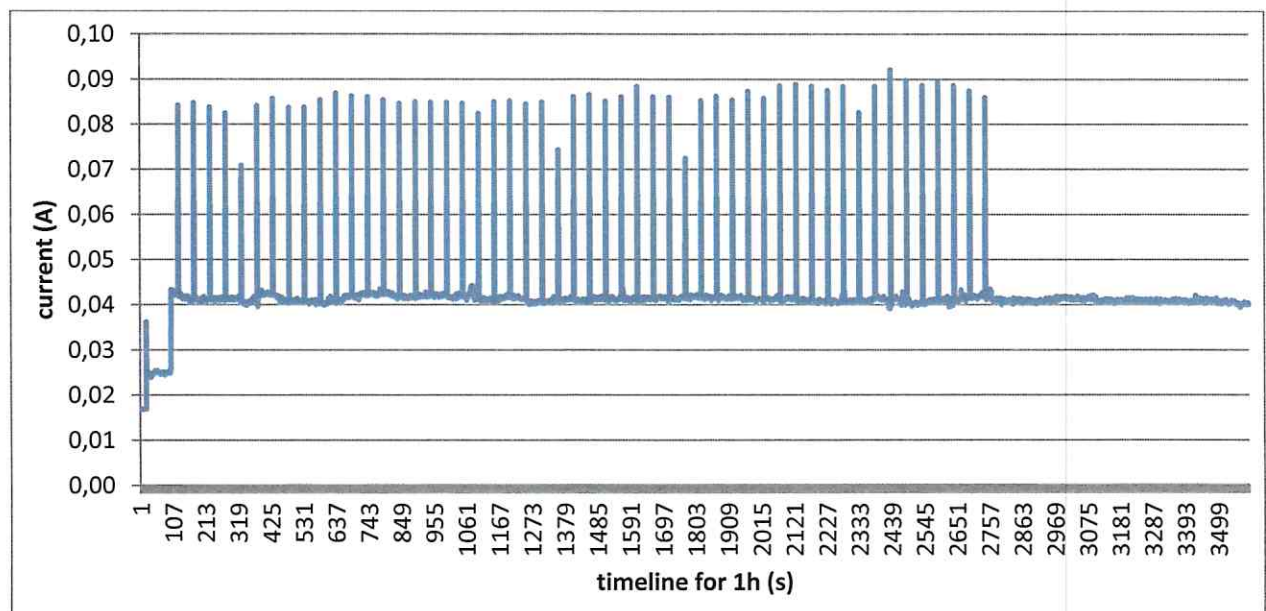


Figure 2: detailed result from the input current in the first hour.



Prüf- und Messmittel / *Testing and measuring equipment:*

Measurement	Measuring equipment	Inventory number	Calibration date	Calibration due date
Ozone	Dräger Accuro	--	Inhouse Test	
current	Yokogawa WT500	1070195	2016-10-28	2017-10-27
Temperature	Rotronic HC2-S	1301818	2017-05-24	2018-11-23

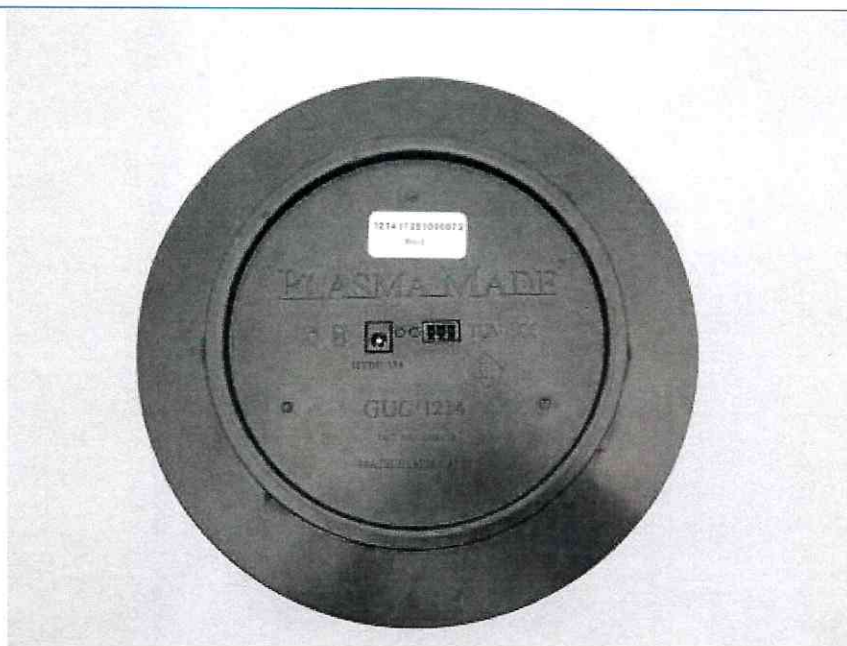
Fotodokumentation / Photo documentation:



Picture 1: label GUC1214



Picture 2: front view GUC1214



Picture 3: back view GUC1214



Picture 4: side view GUC1214