

**VERIFICATION
Of Compliance**

Order No. JGZ0503222

Type of equipment Range Hood

Applicant Cata Electrodomésticos. S.L.
Angel Guimera, 16-17, 08570
Torello (Barcelona), Spain

Manufacturer Zhongshan GaoWei-Control Air Manufacturing Co., Ltd.
Maohui Industrial District, Henglan
Town, Zhongshan City, P. R. China

Type designation TF-5060, TF-5260, TF-5290

Technical data 220-240VAC, 50Hz
TF-5060: 165W, TF-5260 & TF-5290: 330W

The submitted sample of the above equipment has been tested for **CE** marking according to the following European Directives:

- the EMC Directive 89/336/EEC

Standard(s) used for showing compliance with the essential requirements in the specified directive(s):

<i>Standard(s)</i>	<i>Test report(s)</i>	<i>Issued by</i>	<i>Date(s)</i>
EN 55014-1: 2000/A1: 2001/A2: 2002	JGZ0503222-1	ETL SEMKO	18 July 2005
EN 61000-3-2: 2000	JGZ0503222-1	ETL SEMKO	18 July 2005
EN 61000-3-3: 1995/A1: 2001	JGZ0503222-1	ETL SEMKO	18 July 2005
EN 55014-2: 1997/A1: 2001	JGZ0503222-1	ETL SEMKO	18 July 2005

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the above listed EU Directive(s). Other relevant Directives have to be observed.

After preparation of the necessary technical documentation as well as the conformity declaration the CE marking as shown below can be affixed on the equipment.

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ETL SEMKO GUANG ZHOU

Joan Li

Joan Li
Manager
Date: 18 July 2005



Note: This verification is part of the full report and should be read in conjunction with it.

Intertek Testing Service Shenzhen Ltd. Guangzhou GDD Branch

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Guangzhou Economic & Technological Development District, Guangzhou, China

EMC VERIFICATION SUMMARY

Report No.: JGZ0503222-1

Electric household product
 ITE
 Others

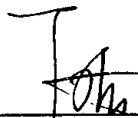
Product Description: Range Hood		Client: Cata Electrodomésticos. S.L. Angel Guimera, 16-17, 08570 Torello (Barcelona), Spain			
Model: TF-5060, TF-5260, TF-5290					
Sample Receipt Date: 08 July 2005		Test Date: 11 to 14 July 2005			
<input checked="" type="checkbox"/> 1 st TEST <input type="checkbox"/> 2 nd TEST (after modification)		ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH: * EN 55014-1 : 2000/A1 : 2001/A2: 2002 * EN 61000-3-2: 2000 * EN 61000-3-3:1995/A1: 2001			
Test Result	ok	not ok	Test Result	ok	not ok
EN 55014-1: 2000/A1: 2001/A2: 2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IEC 61000-4-4:1995/A1: 2001 /A2: 2001	<input type="checkbox"/>	<input type="checkbox"/>
EN 55022: 1998/A1: 2000/A2: 2003	<input type="checkbox"/>	<input type="checkbox"/>	IEC 61000-4-6: 1996/A1: 2001	<input type="checkbox"/>	<input type="checkbox"/>
EN 61000-3-2 : 2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IEC 61000-4-5: 1995/A1: 2001	<input type="checkbox"/>	<input type="checkbox"/>
EN 61000-3-3: 1995/A1: 2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IEC 61000-4-11: 2004	<input type="checkbox"/>	<input type="checkbox"/>
IEC 61000-4-2:1995/A1: 1998 / A2: 2001	<input type="checkbox"/>	<input type="checkbox"/>	IEC 61000-4-3:2002/A1: 2002	<input type="checkbox"/>	<input type="checkbox"/>

Tested By:

Approved By:



 Mike Zhuo - Engineer



 Totti Huang - Project Engineer
 18 July 2005 _____
 Date

- This summary is part of the full report and should be read in conjunction with it
- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained
- This report shall not be reproduced except in full without prior authorization from Intertek Testing Services.

EMC Results Conclusion (with Justification)

RE: EMC Testing Pursuant to EMC Directive 89/336/EEC Performed On the Range Hood, Models: TF-5060, TF-5260, TF-5290.

We tested the Range Hood, Model: TF-5260 to determine if it was in compliance with the relevant EN standards as marked on the EMC Verification Summary. The worst test results were recorded in this report. We found that the unit met the requirement of EN 55014-1, EN 61000-3-2, EN 61000-3-3 standards when tested as received.

Models TF-5060 & TF-5290 are declared to be identical to model TF-5260 in terms of electrical and mechanical design. The test data of model TF-5260 can represent the test data of models TF-5060 & TF-5290.

The production units are required to conform to the initial sample as received when the units are placed on the market.

Standards against which no testing has been conducted of the captioned model and the engineering judgement is stated as follows:

EN55014-2: This product contains no electronic control circuitry. It is classified to Category I of the standard and is therefore deemed to fulfil the relevant immunity requirements without testing.

Ctrl. No.: 1.2.1

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LABORATORY MEASUREMENTS

Configuration

Equipment Under Test (EUT):	Range Hood
Model:	TF-5260
Serial No.	Not Labelled
Support Equipment:	N/A
Power Source:	220-240V AC, 50Hz, 330W

Ctrl. No.: 1.3

Emission**EN 55014-1
RFI Power Clamp Test**

Test Requirement:	EN 55014-1
Test Method:	Based on EN 55014-1
Frequency Range:	30MHz to 300MHz
Class / Severity:	Table 2, Columns 2 & 3
Detector:	Peak for pre-scan (120kHz Resolution Bandwidth)
	Quasi-Peak & Average if pre-scan peak within 15dB of average limit.

Measurement Data:

Frequency (MHz)	Quasi-Peak		Average	
	Disturbance level dB(pW)	Permitted limit dB(pW)	Disturbance level dB(pW)	Permitted limit dB(pW)
30.0	<35	45.0	<25	35.0
45.0	<35	45.6	<25	35.6
65.0	<35	46.3	<25	36.3
90.0	<35	47.2	<25	37.2
150.0	<40	49.4	<30	39.4
180.0	<40	50.6	<30	40.6
220.0	<40	52.0	<30	42.0
300.0	<40	55.0	<30	45.0

Notes: 1. "*" indicates limit exceeded.

2. Uncertainty: ± 3.5 dB at a level of confidence of 95%.

Ctrl. No.: 2.1

EN 55014-1
RFI Voltage Test

Test Requirement:	EN 55014-1
Test Method:	Based on EN 55014-1
Frequency Range:	150KHz to 30MHz
Class / Severity:	Table 1, Columns 2 & 3 (AC Terminals)
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)
	Quasi-Peak & Average if maximised peak within 6dB of limit

Measurement Data:

Frequency (MHz)	Quasi-Peak		Average	
	Disturbance level dB(μ V)	Permitted limit dB(μ V)	Disturbance level dB(μ V)	Permitted limit dB(μ V)
0.16	<40	65.5	<30	58.3
0.24	<40	62.1	<30	53.9
0.55	<40	56.0	<30	46.0
1.00	<40	56.0	<30	46.0
1.40	<40	56.0	<30	46.0
2.00	<40	56.0	<30	46.0
3.50	<40	56.0	<30	46.0
6.00	<40	60.0	<30	50.0
10.0	<40	60.0	<30	50.0
22.0	<40	60.0	<30	50.0
30.0	<40	60.0	<30	50.0

- Notes: 1. The above data and the following graph and table were recorded for the tests on the mains terminal.
2. A graph of Ctrl. No.: 2.2.4.1 consisting of one page is attached.
3. Uncertainty: ± 2.5 dB at a level of confidence of 95%.

Ctrl. No.: 2.2.4

**EN 61000-3-2
Harmonics**

Test Requirement:	EN 61000-3-2
Test Method:	EN 61000-3-2
Frequency Range	100Hz to 2kHz
Measurement Time:	2.5 mins
Class / Severity:	Class A

Note: Test data of Ctrl. No.: 5.1.1 consisting of three pages are attached.

Ctrl. No.: 5.1

**EN 61000-3-3
Voltage Fluctuations**

Test Requirement:	EN 61000-3-3
Test Method:	EN 61000-3-3
Measurement Time:	10 mins
Class / Severity:	Clause 5 of EN 61000-3-3
Detector:	As per EN 61000-3-3

Note: A data table of Ctrl. No.: 5.2.1 consisting of one page is attached.

Ctrl. No.: 5.2

INTERTEK TESTING SERVICES

TO OUR CLIENTS

GUIDELINES FOR COMPLETING A DECLARATION OF CONFORMITY

There are many Directives and Standards in place, and you should assure yourself that the correct ones have been applied to your product.

The attached blank Declaration of Conformity complies with the format published in the Official Journal of the European Community. To complete the form:

1. List all applicable Directives, by number, on the top lines.

e.g. 88/378/EEC for Toy Directive
89/336/EEC for EMC Directive
73/23/EEC for Low Voltage Directive
93/68/EEC for CE Marking Directive
2. List the Standards under these Directives to which conformity is being declared. Intertek Testing Services test report(s) which you should retain to support your declaration contain this information.
3. Add manufacturer's and importer's name and address. The importer should be located within the EU.
4. Specify the type of equipment and model. You may list a block of serial numbers corresponding to the import quantity during the year of manufacture shown.
5. The Declaration of Conformity should be signed by the manufacturer or his authorized representative established within the EU.

NOTES:

- A. A COPY OF THE DECLARATION MUST ACCOMPANY IMPORT PAPERS INTO THE EC. ADDITIONAL COPIES MAY ALSO BE SUPPLIED IN EACH PRODUCT CARTON, WITH EACH PALLETIZED SHIPMENT, IN THE INSTRUCTION MANUAL OR ON THE WARRANTY CARD.
- B. THE IMPORTER OR THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE MUST KEEP THE DECLARATION OF CONFORMITY AND THE TEST REPORTS AT THE DISPOSAL OF THE AUTHORITIES FOR A PERIOD OF TEN YEARS AFTER THE EQUIPMENT HAS BEEN PLACED ON THE MARKET.

Declaration of Conformity

Application of Council Directive(s):

Standard(s) to which Conformity is Declared:

Manufacturer's Name:

Manufacturer's Address:

.....

Importer's Name:

Importer's Address:

.....

Type of Equipment:

Model No.:

Serial No.:

year of Manufacture:

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Place:

(Signature)

Date:

(Full Name)

(Position)