

EMC Projects
part of TRAC global

Certificate of Testing

CERTIFICATE OF TESTING No: 6362/07

CUSTOMER: Bioquell UK Limited
Walworth Road, Andover, Hampshire, England. SP10 5AA

Customer Reference No: STD 10967 EMC Projects Ref No: P4637-1/MCW

EQUIPMENT TESTED

EUT Gas generator **Model No** Bioquell Z TD048 **Serial No:** 2007048978

TEST SPECIFICATIONS & CATEGORIES

EN 61326-1
Emissions/Immunity

DATES of TESTS: 11th to 16th April 2007 **TEST LOCATION:** EMC Projects, Ringwood

TEST RESULT: The EUT was found to meet the specification requirements when tested to the customer's/specification requirements and modified.

This is to certify that the above referenced EQUIPMENT has been tested in accordance with the requirements of the contract/order/specification as detailed above using test equipment calibrated to traceable National Standards. This Certificate applies only to the products detailed and is not indicative of the qualities of identical or similar products.

APPROVED BY - SIGNATURE


M J Wood – Technical & Managing Director Issue Date: 12th June 2007
For and on behalf of EMC Projects Limited

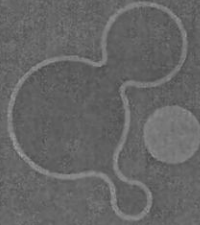


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Tests marked 'NUA' in this Certificate are not included in the UKAS accreditation schedule for our laboratory. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This Certificate is for the exclusive use of the Customer detailed and should not be reproduced, except in full, without the written authority of EMC Projects Ltd.

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Test details

Specification & Clause Details	Issue	Result	Level/Figure
EMISSIONS EN 61326-1	2006		
EN 55022 (Conducted Emissions)	1998	Pass	Class B
EN 55022 (Radiated Emissions)	1998	Pass	Class B
IMMUNITY EN 61326-1	2006		
IEC 1000-4-11 (Voltage Dips)	1994	Pass	0% for 10 ms 0% for 5000 ms 70% for 500 ms 40% for 200 ms
IEC 1000-4-2 (ESD)	1995	Pass	2,4,8 Kv Air 2,4,8 Kv Contact
IEC 1000-4-3 (Radiated Immunity)	1995	Pass	10V/m, 1 kHz, 80% am 80 MHz to 2.7 GHz
IEC 1000-4-4 (Fast Transient Bursts) Mains input	1995	Pass	0.5,1,2 kV
IEC 1000-4-4 (Fast Transient Bursts) Cable input	1995	Pass	0.5,1, kV
IEC 1000-4-5 (Surge Immunity) Mains input	1995	Pass	0.5,1&2 kV
IEC 1000-4-5 (Surge Immunity) Cable input	1995	N/a	
IEC 1000-4-6 (Conducted Immunity) Mains input	1993	Pass	3V rms, 1 kHz, 80% am 150 kHz to 80 MHz
IEC 1000-4-6 (Conducted Immunity) Cable input	1993	Pass	3V rms, 1 kHz, 80% am 150 kHz to 80 MHz

Modifications

1. Mains Filter (Schaffner FN 2070-16-06) fitted to mains input
2. Filtered D type (RS type 97202446702) fitted to main unit 9 way control cable.
3. Good cable separation between mains input and control Cables.
4. Screened ribbon cable required correct termination at each end
5. Ferrite (Fairite 74271222) and two turns added to cable of DC power supply.
6. Re-route DC input cable (cable with new fuse) away from DC output cables
7. Increase Communication timeout to 30 seconds or more.