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December 28, 2016

Mr. Joseph Grimm
Grimm Scientific Industries
1403 Pike Street
Marietta, OH 45750 USA

Phone: (740) 374-3412
e-mail: joe@grimmscientific.com

Subject: Field Evaluation for your Hot and Cold Hydro Massage Tub model 4166.

Intertek Project No.: G102822064
Intertek Report No.: 102822064ATL-001

Dear Mr. Grimm:

This letter and report concludes and represents the results of the Field evaluation and tests of the above referenced equipment to the requirements contained in the following standard:

Standard for Safety for Hydro massage Bathtubs, UL 1795, Fifth Edition, Dated September 2, 2016

This investigation was authorized by signed quote number Qu-00723115 dated 0907/2016. The investigation was begun and concluded on 12/14/2016 at the location identified in the *Field Evaluation Report*. A production line sample of the model above in good condition was made available and tested at the location identified in the attached *Field Evaluation Report*.

Attached to this letter is our *Field Evaluation Report* which identifies all pertinent information related to this initial evaluation. A final inspection including the application of the Field Labels will take place at the installation site.

If you have any questions, please feel free to contact us at your convenience. We are looking forward for future opportunities to work together.

Sincerely,

Cecil Gray
Sr. Project Engineer
Intertek, Duluth, GA

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Field Evaluation Report

December 28, 2016

Rendered To:

Grimm Scientific Industries.
1403 Pike Street
Marietta, OH 45750 USA
Contact: Mr. Joseph Grimm
Phone: 740-374-3412

Performed By:

Intertek Testing Service NA, Inc.
1950 Evergreen Blvd., Ste 100
Duluth, GA 30096 USA
Ph: (678) 775-2400 Fax: (678) 775-2401

Products Covered:

Hydro Massage Tub

Inspection Site:

Donald L Tucker Civic Center
500 Pensacola Street
Tallahassee, FL 32301 USA

Results

The equipment noted in this Report has been investigated to the following Standard as far as practical in the field and has been found to be in essential compliance with those requirements.

Standard for Safety for Hydro Massage Bathtubs, UL 1795, Fifth Edition, Dated September 2, 2016

The installation methods and final approvals at the installation site are the responsibility of the Authority Having Jurisdiction. This equipment is intended to be installed at a location other than the initial inspection site. Complete investigation information is on file at this office.

The system was evaluated only for the requirements of fire, electrical and mechanical hazards of UL 1795.

Please note this Letter of Compliance does not represent authorization for the use of the ETL Mark.

In Charge of Testing:



Cecil Gray
Sr. Project Engineer
Intertek, Duluth, GA

Approved by:



Luis Bas
Field Evaluation Engineer
Intertek, Duluth, GA

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1.0 **Scope**

This Field Evaluation Report provides the results of the initial evaluation of non-certified or other special equipment as noted in this report. The purpose of these inspections is to provide a review of the electrical constructions of the subject products and provide a degree of assurance that the constructions comply with the requirements of appropriate standards. This evaluation is limited to the equipment itself and is not specifically intended to identify issues with the field installed wiring other than how it interacts with the equipment.

2.0 **Product Evaluation Procedures**

2.1 **Standards:** The standard noted on the cover page was used to evaluate the subject products.

2.2 **Visual Inspection:** A visual inspection of the product was conducted, comparing product construction to requirements of the applicable product standard. Any unlisted/unmarked components were identified and evaluated. Visual inspection included any directly connected loads to the product evaluated. Complete inspection records are on file at the Intertek office.

Overcurrent Protection: All overcurrent protection provided in the unit was of the proper rating and type. The device has an internal fusing (breakers) that protects various subassemblies.

Wiring Ampacities: All wiring is certified and used within its voltage and temperature ratings.

Grounding: All required noncurrent-carrying metallic parts of the equipment have been checked and determined to be suitably bonded to the supply equipment grounding conductor. Connection of the equipment grounding conductor is assured through the use of a Listed power cord.

Wiring Methods: All internal wiring is routed properly and splices are made with means acceptable to the standard.

Guarding of Equipment: Markings are used to warn the user of hot parts.

Damaged Components: Any component or part of the equipment that was or appeared to be damaged was checked and determined to be acceptable for use.

General Engineering Practices: The product was constructed in a workmanlike fashion and was new. Special features of the equipment location are:
- Access to the equipment is restricted to only qualified persons.

2.3 Product Type Testing: The following non-destructive tests required by the applicable product standard were conducted with satisfactory results. Test results are on file at the Intertek office. Due to the identical product was evaluated under project number: G102247681, Intertek Field Evaluation report number: 102247681ATL-001 only the production line testing was done.

- Starting Current Test
- Power Input Test
- Temperature Test
- Dielectric Voltage-Withstand Test
- Water Temperature Test
- Grounding Impedance Test
- Abnormal Operation Test

2.4 Testing Not Conducted: The following tests required by the applicable product standard were waived based on the indicated engineering judgments.

Waived Test	Engineering Judgment
None	

2.5 Resolution of Deficiencies: The following deficiencies were identified on the equipment during the initial evaluation. Methods of resolution by the client have been reviewed, agreed upon, and verified by Intertek.

Deficiency	Approved Resolution
None	N/A

3.0 Products Evaluated

3.1 Equipment Identification and Field Label Number: The purpose of this job was to evaluate the equipment noted on Page 1 of this Report prior to shipping to its final installation site.

Manufacturer	Model	Serial No.	Ratings	ETL Label
Grimm Scientific Industries	4166	4166001	230V, 60Hz, 38A	292408

3.2 Conditions of Use and Acceptability: This product is intended for use and installation in a non-classified (non-hazardous) location and for connection to the appropriately sized branch circuit. The installation methods and final acceptability at the installation site are the responsibility of the Authority Having Jurisdiction.

3.3 Photographs and Schematics: Photos are shown below. Schematics were not required for verification.

Photos No.1 & 2 - Overall front-side views of the massage bathtub model 4166:



Photos No. 3 & 4 – Show the internal views of the massage bathtub model 4166:



Photos No. 5 – Shows the internal view of the massage bathtub model 4166:



Photos No. 6 & 7 – Show the internal views of the massage bathtub model 4166:

