



TEST SPECIFICATION

Product:	Fogger		
Scope:	Electrical Fogger, mist maker	Protocol No.	TYCP-HA001 (US)
		Version	1.0
		Issue Date	Sep 12, 2011
		Prepared by	Tiger Yang
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Instructions to Vendors:

Dear Valued Vendor:

Product safety is a top priority at Taymark. We, with the assistance of Intertek, a CPSC-accredited third-party testing partner or lab, have identified the various rules and regulations as well as the necessary test requirements that we need to meet in our partnership to sell products in the United States. This has been assembled into our required Test Protocol. Each product that is supplied to us must comply with this Test Protocol and any required associated test protocol(s) identified within it.

You are required by the US Law to verify the products you provide to Taymark (or any other customer marketing to children in the USA) meet the required safety standards. Likewise, Taymark is required by US Law to assure that we have documentation to confirm that you have verified that your products meet the applicable safety standards. Once you have verified that the product(s) you have supplied to us conforms to the corresponding Test Protocol(s), and the testing was conducted within the past twelve (12) months, we ask that the appropriate representative from your company provide Taymark with the proper General Certificate of Conformity ("GCC") and the corresponding documentation that you used to support the GCC, including, where applicable and required, the CPSC-accredited third-party test data. For an example of an acceptable GCC, please go to <http://www.cpsc.gov/about/cpsia/faq/elecfaq.pdf>.

Key

†: Any element on the attached form with the following symbol ("†") is a Mandatory Requirement to which the product(s) or components of product(s) you supply to Taymark must conform. You must perform the associated test(s) and provide Taymark with the test data to support the fact that the test(s) was (were) conducted and that the product(s) or components of product(s) meets the described requirements. You are responsible for conducting the mandatory testing, and you are responsible for any expenses incurred as a result of conducting the test(s) (including, without limitation, the costs and expenses associated with providing any samples, testing, reporting, and preparing the General Certificate of Conformity).

: The symbol ("") on the attached form indicates that additional charges may apply. Taymark's preferred Accredited Third-Party Testing Facility is Intertek. If you choose to use Intertek to conduct the mandatory testing, please reference Taymark and Taylor Corporation when submitting your requests for testing to Intertek as you may be able to take advantage of Taymark and Taylor Corporation's volume discount. You may contact Intertek for a price quote and any additional information they might need in order to conduct the required testing.

Additional Accredited Third-Party Testing facilities can be found at <http://www.cpsc.gov/cgi-bin/labsearch/>.

Note:

Where there is no applicable US standard, Intertek has chosen the most relevant International Standard to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.



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Attribute	Test Method/Standard	Requirement / Limit
Supplemental Protocol(s)		
*Battery Operated Product	TYCP-PS001	Must all also test to the Battery Operated Product protocol if applicable.
*Batteries	TYCP -PS002	Must all also test to the Batteries protocol if applicable.
*AC Adaptor	TYCP -PS003	Must all also test to the AC Adaptor protocol if applicable.
*†CA Prop 65 (mandatory in state California)	Intertek Protocol	Consent Judgment of related court case based on California Proposition 65. See http://oehha.ca.gov/prop65.html
Note: Additional cost, sample size & TAT may be required if testing to 1 or more supplemental protocol is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.		
Chemical Analysis		
1. * Lead Content in Paint and Similar Surface Coating	16 CFR 1303 (Scope Widened)	Shall not exceed 40ppm (0.004% by weight) total lead.
Document Check		
2. †One Time Use Products Fair Packaging and Labeling Act OR All Other Products Uniform Packaging and Labeling Regulations	F.P. & L. Act (16 CFR 500) OR NIST Uniform Laws and Regulations Handbook 130	Manufacturer, packer, or distributor's name & address (city, state & zip)
		Product Identification
		Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units).
3. †Country of Origin Marking	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.
4. Use Labelling	Visual Check	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries
5. Verify Label Claims (if any)	Visual Check	Must comply with all claims
6. †*Toxics in Packaging	Toxics in Packaging Act	Intentional introduction of any amount of lead, mercury, cadmium or hexavalent chromium in any packaging is prohibited. Incidental presence of these metals is limited to 100 ppm total concentration of lead, mercury, cadmium and hexavalent chromium in any packaging. In lieu of testing, supplier may submit a Certificate of Compliance.



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7. †Plastic Bag Warning Statement (if applicable)	Based on Various State Laws: New York, Chicago, Massachusetts, and Rhode Island State and City Laws modified	<p>Plastic bags with a thickness less than one mil (1/1000 inch) having an opening size of five inches in diameter or more must have the following warning or an equivalent warning visible from each side of the bag. If the total length and width is more than 40 inches, this warning or an equivalent warning must repeat at 20 inch intervals and be visible on each side of the bag:</p> <p>Warning: To avoid danger of suffocation, keep this plastic bag away from babies and children. Do not use this bag in cribs, beds, carriages or playpens. This bag is not a toy.</p> <p>Massachusetts, New York, and Rhode Island provide minimum type size for the warning. The following table sets forth type sizes that will satisfy all four state requirements.</p> <p>Total Length and Width of Bag Size of Print 60 inches or more at least 24 point 40 to 59 inches at least 18 point 25 to 39 inches at least 14 point Less than 25 inches at least 10 point *Virginia's law is intended for dry cleaning bags only and requires at least 36 point type.</p>
8. Safety Listing Mark	NFPA 70	Shall have valid ETL, UL or CSA listing or equivalent. Verify listing by NRTL product directory with the sample's listing number and model number.
9. US FCC Part 18 Rules	Document Check	Ultrasonic products shall have valid FCC report. <ul style="list-style-type: none">- Verification for product < 500W and < 90kHz- Certification or DoC for product ≥ 500W or ≥ 90kHz
10. US FCC Part 18 marking and instruction	Visual	Shall provide marking and instructions required by FCC Part 18.
11. General Markings	UL 499, Cls. 47.1	The following markings shall be legible and readily visible after the product is assembled or installed: <ul style="list-style-type: none">- Manufacturer's name, trademark or etc.- Model number, type reference or etc.- Input voltage, Current / Wattage and Frequency- Other markings as required by standard.
12. Cautionary Markings	UL 499, Cls. 47, 56	A cautionary or warning marking intended to inform the user of a potential risk of fire, electrical shock, or injury to persons shall be provided.



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13. User Manual / Important Safety Instructions / Assembly Instructions	UL 499, Cls. 48, 57	Instructions and warnings shall be provided in the user manual, identifying reasonable foreseeable uses or misuses of the product. The product shall also include instructions regarding installation, use, safety and maintenance. All accessories shall be described in the user's manual and provided with instructions for proper use.
14. UPC code	Actual Use	Using a commercial available bar code reader to read the UPC code printed on the package/artwork. The code readout shall match with the number underneath. Record the reading displayed on the reader.
15. Parts Inventory	Visual Check	Shall meet label claims.
Electrical Safety		
16. Packing	Visual Check	No hazard when removing the packing
17. Workmanship – external	Visual Check	Shall have no sharp points/edges, other than those required for function. Shall have no components missing, malformed, and/or fractured.
18. Workmanship – internal	Visual Check	Solder connections shall be secured. Components shall be reliably mounted on PCB or other proper fixing.
19. Mechanical Assembly	Visual Check	All mechanical parts shall be securely fixed and prevented from turning.
20. Internal Wiring	Visual Check	Wireways shall not allow wires to come in contact with sharp points, edges or moving parts.
21. Power Cord	UL 499, Cls. 11.1.1, 11.1.9	An appliance shall be provided with a length of attached flexible cord and an attachment plug for connection to the supply circuit in accordance to Table 11.1 and Table 11.3
22. Power Cord – Cross Section Area of Conductor (mm ²)	Standard Measure	The cross section area of conductor shall comply with Table 20.1 of UL1581 for the AWG claimed.
23. Polarization	Visual Check	A manually operated, line-connected, single pole switch for appliance on-off operation shall not be connected to the conductor of the power supply cord intended to be grounded. Polarity shall be determined either visually or through the use of an electrical test. Equivalently, polarity may be verified between the ungrounded supply circuit conductor of the attachment plug and the part of the appliance that is intended to be connected to the ungrounded conductor.
24. Stability Test	UL 499, Cls. 8	The product shall not overturn when positioned in its most unstable condition and tipped through an angle of 15 degrees from the horizontal.



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25. Water Immersion Test	In-house method	<p>The product is immersed so that the highest water barrier seal is under 18” of water, with “on” period of 2 hr and an “off” period of 2 hr.</p> <p>Afterward, the exterior of the product shall be completely dried and then disassembled and inspected for any evidence of water entry.</p>								
26. Strain Relief Test	UL 499, Cls. 41	The strain-relief means provided on an attached flexible cord, when tested in accordance with 41.2, shall be capable of withstanding for 1 minute, without displacement, a pull of 35 lbf (156 N) applied to the cord, with the connections within the product disconnected.								
27. Accessibility of Live Parts	UL 499 Cls. 6.13-6.17	<p>The live parts shall not be accessible to unintentional contact by persons during normal use, replacement of electric device or other user maintenance services.</p> <p>A live part is determined to be inaccessible when a probe as illustrated in standard is unable to be manipulated such that it touches any part. All parts that are removable without the use of tools shall be removed when determining accessibility.</p>								
28. Input Current Test	UL 499, Cls. 31	The measured input current to the seasonal lighting product at maximum rated voltage shall be within 10 percent of the marked rating with all features on the unit set in the state to draw maximum input current and wattage.								
29. Dielectric Voltage-Withstand Test	UL 499, Cls. 35	<p>When a test voltage indicated in Table 35.1 of UL499 is applied for a period of 1 minute between a live part and any accessible part, the insulation and spacings shall not breakdown.</p> <table><tr><th>Appliance</th><th>Test potential (rms)</th></tr><tr><td>Appliances that involve moist or wet contact directly with persons or animals</td><td>2500 V</td></tr><tr><td>Appliances that are rated at more than 250 V and do not involve moist or wet contact</td><td>1000 V plus twice the voltage rating of the appliance</td></tr><tr><td>Appliances that are rated at 250 V or less and do not involve moist or wet contact</td><td>1000 V</td></tr></table>	Appliance	Test potential (rms)	Appliances that involve moist or wet contact directly with persons or animals	2500 V	Appliances that are rated at more than 250 V and do not involve moist or wet contact	1000 V plus twice the voltage rating of the appliance	Appliances that are rated at 250 V or less and do not involve moist or wet contact	1000 V
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Appliances that involve moist or wet contact directly with persons or animals	2500 V									
Appliances that are rated at more than 250 V and do not involve moist or wet contact	1000 V plus twice the voltage rating of the appliance									
Appliances that are rated at 250 V or less and do not involve moist or wet contact	1000 V									
30. Leakage Current Test	UL499, Cls.32	The leakage current of a seasonal lighting product shall not be more than 0.5mA.								
Performance Test										
31. Functional Check	Actual Use	All the major features shall be matched with the installation and use instructions and claims made on the packaging, with no inaccurate or misleading statements about the product, or any other user-friendliness problems.								
32. Ease of Installation	Actual use	Follow the instructions for assembly and disassembly the product; and comment on the method of the installation. Parts shall not be easy to break during normal use.								
33. Ease of Cleaning	Actual use	Follow the instructions to clean up the unit. Comment on the method of cleaning.								
34. Range of operation	In-house method	The unit should operate within the voltage range of 106-127 volts.								



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35. Tank Capacity	In-house method	The volume of tank capacity shall be same as the claim
36. Fogging Time	In-house method	The Fogging time shall be same as the claim
37. Warming Time	In-house method	The warming time before and after fogging shall be same as the claim.
38. Suspension Test (for ceiling-mounted unit)	In-house method	No damage shall be found when a weight of three times the total weight of the unit is to be gradually applied on the unit and maintained for 1 hour.
39. Abnormal Dry Run Test	In-house method	Test at the rated input voltage and using a maximum setting, but without filling with water, for 1 hours. After test, no deformation, fire hazard or bad smell shall be found.
40. Continuous Operation Test	In-house method	Install the unit to normal operation; continuously operate for 4 hours, with humidifying output set to maximum. Shall not indicate safety issue, fire risk, or any other abnormality. After the test, check for excessive temperatures on supporting surface and all accessible surfaces. In case of doubt, measure the temperature and shall not exceed the following, 1) Points on surface supporting a cord-connected appliance: 150°C (302°F) 2) Surfaces other than a heating function surface and known to be hot due to proximity to the heating function surface: - Metal: 70°C (158°F) - Nonmetallic: 95°C (203°F)
41. Durability of Switches	In-house method	Switches shall continue to function correctly after 200 cycles of operations.

Remark: Additional tests may be incurred subject to the final samples reviewed by Intertek.