

Name: Zhejiang Academy of Science and Technology for Inspection & Quarantine (Zhejiang Entry-Exit Inspection & Quarantine Bureau Inspection & Quarantine Technical Center/Zhejiang Lead Product Technical Co., Ltd.)

Address: No.398, Jianshe Sanlu, Xiaoshan District, Hangzhou, Zhejiang, China

Registration No. CNAS L0354

Accreditation Criteria: ISO/IEC 17025, requirements of EPA ENERGY STAR® Program and relevant requirements of CNAS

Date of Issue: 2017-09-12

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SCHEDULE 6 ACCREDITED ENERGY STAR TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
1	Room air conditioners		All Parameters	Method of Testing for Rating Room Air Conditioner and Packaged Terminal Air Conditioner Heating Capacity ANSI/ASHRAE STANDARD 16-1983 (RA 99)	Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing
		1	COOLING CAPACITY TEST	Method of Testing for Rating Room Air Conditioner and Packaged Terminal Air Conditioner Heating Capacity ANSI/ASHRAE STANDARD 16-1983 (RA 99) 6	
		2	Airflow measurement	Method of Testing for Rating Room Air Conditioner and Packaged Terminal Air Conditioner Heating Capacity ANSI/ASHRAE STANDARD 16-1983 (RA 99) 7	



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№	Test Object	Item/Parameter		Standard or Method	Note
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2	Room air conditioners		All Parameters	Method of Testing for Rating Room Air Conditioner and Packaged Terminal Air Conditioner Heating Capacity ANSUASHRAE STANDARD 58-1986 (RA 99)	Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing
		1	Airflow Measurements	Method of Testing for Rating Room Air Conditioner and Packaged Terminal Air Conditioner Heating Capacity ANSUASHRAE STANDARD 58-1986 (RA 99) 7	
		2	Temperature and Steam Pressure Measurements	Method of Testing for Rating Room Air Conditioner and Packaged Terminal Air Conditioner Heating Capacity ANSUASHRAE STANDARD 58-1986 (RA 99) 7.2	
		3	Heating Capacity Test	Method of Testing for Rating Room Air Conditioner and Packaged Terminal Air Conditioner Heating Capacity ANSUASHRAE STANDARD 58-1986 (RA 99) 7.2	
3	Room air conditioners		All Parameters	Room air conditioners ANSI_ AHAM RAC-1-R2008	(2)Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing, Accredited Only for Cooling Capacity up to 8000W

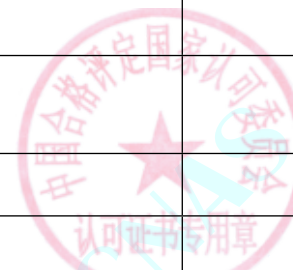


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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		1	PERFORMANCE TESTS - COOLING UNITS	Room air conditioners ANSI_ AHAM RAC-1-R2008 6	
		2	Cooling Capacity Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.1	
		3	Moisture Removal Capacity Test	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.2	
		4	Recirculated Air Quantity Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.3	
		5	Ventilating Air Quantity Test and Exhaust Air Quantity Test	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.4	
		6	Electrical Input Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.5	
		7	Maximum Operating Conditions Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.6	
		8	Freeze-Up Tests	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.7	
		9	Enclosure Sweat Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.8	
		10	Condensate Disposal Test	Room air conditioners ANSI_ AHAM RAC-1-R2008 6.9	
		11	PERFORMANCE TESTS HEATING-COOLING UNITS	Room air conditioners ANSI_ AHAM RAC-1-R2008 7	
		12	Heating-Cooling Units	Room air conditioners ANSI_ AHAM RAC-1-R2008 7.1	
		13	Heating Capacity Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 7.2	
		14	Electrical Input Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 7.3	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		15	Application Heating Capacity Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 7.4	
		16	Maximum Operating Conditions Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 7.5	
		17	Outside Coil De-Icing Test.	Room air conditioners ANSI_ AHAM RAC-1-R2008 7.6	
		18	SAFETY	Room air conditioners ANSI_ AHAM RAC-1-R2008 8	
4	Room air conditioners		All Parameters	Uniform Test Method for Measuring the Energy Consumption of Room Air Conditioners 10 CFR 430, Subpart B, Appendix F	(2)Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing
		1	Measurements	Uniform Test Method for Measuring the Energy Consumption of Room Air Conditioners 10 CFR 430, Subpart B, Appendix F 4	
5	Room air conditioners		All Parameters	ENERGY STAR Program Requirement for Room Air Conditioners ENERGY STAR Program Requirements Product Specification for Room Air Conditioners Version 4.0	(2)Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing
		1	Certification Criteria:	ENERGY STAR Program Requirement for Room Air Conditioners ENERGY STAR Program Requirements Product Specification for Room Air Conditioners Version 4.0 3)	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		2	Connected Product Criteria:	ENERGY STAR Program Requirement for Room Air Conditioners ENERGY STAR Program Requirements Product Specification for Room Air Conditioners Version 4.0 4)	
6	automatic and semi-automatic washers		All Parameters	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2	(4)Yuan zhenwe, Yu ping, Zhou guoliang, Ma nan, Jing yiping
		1	Test Measurements	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3	
		2	Clothes container capacity	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.1	
		3	Procedure for measuring water and energy consumption values on all automatic and semi-automatic washers	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.2	
		4	“Extra Hot Wash” (Max Wash Temp >135 ° F (57.2 ° C)) for water heating clothes washers only	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.3	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		5	“Hot Wash” (Max Wash Temp ≤ 135 ° F (57.2 ° C)). Water and electrical energy consumption	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.4	
		6	“Warm Wash.” Water and electrical energy consumption	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.5	
		7	“Cold Wash” (Minimum Wash Temperature Selection). Water and electrical energy consumption	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.6	
		8	Warm Rinse	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.7	
		9	<i>Remaining Moisture Content:</i>	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.8	
		10	Combined low-power mode power	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 3.9	
		11	Hot water and machine electrical energy consumption of clothes washers.	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 4.1	
		12	Water consumption of clothes washers	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 4.2	



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		13	Per-cycle energy consumption for removal of moisture from test load.	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 4.3	
		14	Per-cycle combined low-power mode energy consumption	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers 10 CFR 430, Subpart B, Appendix J2 4.4	
		15	Modified energy factor	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers ENERGY STAR Program Requirements for Clothes Washers 10 CFR 430, Subpart B, Appendix J2 4.5	
7	automatic and semi-automatic washers		All Parameters	ENERGY STAR Program Requirements for Clothes Washers ENERGY STAR Program Requirements Product Specification for Clothes Washers Version 8.0	(4)Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Jing yiping
		1	Certification Criteria:	ENERGY STAR Program Requirements for Clothes Washers ENERGY STAR Program Requirements Product Specification for Clothes Washers Version 8.0 3)	
8	household refrigerators		All Parameters	Energy and Internal Volume of Refrigerating Appliances ANSI/AHAM HRF-1-2008	(3)Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		1	Total volume	Energy and Internal Volume of Refrigerating Appliances ANSI/AHAM HRF-1-2008 4.2	
		2	Energy Consumption	Energy and Internal Volume of Refrigerating Appliances ANSI/AHAM HRF-1-2008 5.8	
		3	Determination of Results of Average Per-Cycle Energy Consumption	Energy and Internal Volume of Refrigerating Appliances ANSI/AHAM HRF-1-2008 5.9	
		4	METHOD FOR COMPUTING ADJUSTED VOLUME AND ENERGY FACTOR OF REFRIGERATORS, REFRIGERATOR	Energy and Internal Volume of Refrigerating Appliances ANSI/AHAM HRF-1-2008 6	
		5	SAFETY OF REFRIGERATORS, WINE CHILLERS AND FREEZERS	Energy and Internal Volume of Refrigerating Appliances ANSI/AHAM HRF-1-2008 7	
9	Electric Refrigerators and Electric Refrigerator-Freezers		All Parameters	Measuring the Energy Consumption of Electric Refrigerators and Electric Refrigerator-Freezers 10 CFR 430, Subpart B, Appendix A	(3)Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing
		1	Temperature Measurements	Measuring the Energy Consumption of Electric Refrigerators and Electric Refrigerator-Freezers 10 CFR 430, Subpart B, Appendix A 5.1	
		2	Temperature Measurements	Measuring the Energy Consumption of Electric Refrigerators and Electric Refrigerator-Freezers 10 CFR 430, Subpart B, Appendix A 5.1	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		3	Energy Measurements	Measuring the Energy Consumption of Electric Refrigerators and Electric Refrigerator-Freezers 10 CFR 430, Subpart B, Appendix A 5.2	
		4	Volume Measurements	Measuring the Energy Consumption of Electric Refrigerators and Electric Refrigerator-Freezers 10 CFR 430, Subpart B, Appendix A 5.3	
		5	Adjusted Total Volume	Measuring the Energy Consumption of Electric Refrigerators and Electric Refrigerator-Freezers 10 CFR 430, Subpart B, Appendix A 6.1	
10	Freezers		All Parameters	Uniform Test Method for Measuring the Energy Consumption of Freezers 10 CFR 430, Subpart B, Appendix B	(3)Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing
		1	Temperature Measurements	Uniform Test Method for Measuring the Energy Consumption of Freezers 10 CFR 430, Subpart B, Appendix B 5.1	
		2	Energy Measurements	Uniform Test Method for Measuring the Energy Consumption of Freezers 10 CFR 430, Subpart B, Appendix B 5.2	
		3	Volume Measurements	Uniform Test Method for Measuring the Energy Consumption of Freezers 10 CFR 430, Subpart B, Appendix B 5.3	
		4	Adjusted Total Volume	Uniform Test Method for Measuring the Energy Consumption of Freezers 10 CFR 430, Subpart B, Appendix B 6.1	
11	Residential Refrigerators and Freezers		All Parameters	ENERGY STAR Program Requirements for Residential Refrigerators and Freezers ENERGY STAR Program Requirements Product Specification for Residential Refrigerators and Freezers Version 5.0	(3)Yuan zhenwei, Yu ping, Zhou guoliang, Ma nan, Tang renxing



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		№	Item/ Parameter		
		1	Certification Criteria:	ENERGY STAR Program Requirements for Residential Refrigerators and Freezers ENERGY STAR Program Requirements Product Specification for Residential Refrigerators and Freezers Version 5.0 3)	
		2	Connected Product Criteria:	ENERGY STAR Program Requirements for Residential Refrigerators and Freezers ENERGY STAR Program Requirements Product Specification for Residential Refrigerators and Freezers Version 5.0 4)	
12	Residential Dishwashers		All Parameters	UNIFORM TEST METHOD FOR MEASURINGTHE ENERGY CONSUMPTIONOF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1	(1)Tian feng, Zhang chao, Liu zheng, Zhang sha, Ma nan, Ke shenggen
		1	Machine electrical energy consumption	UNIFORM TEST METHOD FOR MEASURINGTHE ENERGY CONSUMPTIONOF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 4.1	
		2	Water consumption	UNIFORM TEST METHOD FOR MEASURINGTHE ENERGY CONSUMPTIONOF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 4.1	
		3	Standby power	UNIFORM TEST METHOD FOR MEASURINGTHE ENERGY CONSUMPTIONOF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 4.2	
		4	Machine electrical energy consumption	UNIFORM TEST METHOD FOR MEASURINGTHE ENERGY CONSUMPTIONOF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 5.1	
		5	Fan-only mode energy consumption	UNIFORM TEST METHOD FOR MEASURINGTHE ENERGY CONSUMPTIONOF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 5.2	



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№	Test Object	Item/Parameter		Standard or Method	Note
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		6	Drying energy	UNIFORM TEST METHOD FOR MEASURING THE ENERGY CONSUMPTION OF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 5.3	
		7	Water consumption	UNIFORM TEST METHOD FOR MEASURING THE ENERGY CONSUMPTION OF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 5.4	
		8	Water energy consumption for non-soil-sensing or soil-sensing dishwashers using electrically heated water	UNIFORM TEST METHOD FOR MEASURING THE ENERGY CONSUMPTION OF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 5.5	
		9	Water energy consumption per cycle using gas-heated or oil-heated water	UNIFORM TEST METHOD FOR MEASURING THE ENERGY CONSUMPTION OF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 5.6	
		10	Annual combined low-power mode energy consumption	UNIFORM TEST METHOD FOR MEASURING THE ENERGY CONSUMPTION OF DISHWASHERS 10 CFR 430, Subpart B, Appendix C1 5.7	
13	Residential Dishwashers		All Parameters	ENERGY STAR Program Requirements ENERGY STAR Program Requirements V6.0	(1) Tian feng, Zhang chao, Liu zheng, Zhang sha, Ma nan, Ke shenggen



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№	Test Object	Item/Parameter		Standard or Method	Note
		№	Item/ Parameter		
		1	Certification Criteria:	ENERGY STAR Program Requirements for Residential Dishwashers ENERGY STAR Program Requirements Product Specification for Residential Dishwashers Version 6.0 3)	
		2	Connected Product Criteria:	ENERGY STAR Program Requirements for Residential Dishwashers ENERGY STAR Program Requirements Product Specification for Residential Dishwashers Version 6.0 4)	
14	Residential Dishwashers		All Parameters	Household Electric Dishwashers ANSI/AHAM DW-1 - 2010	(1)Tian feng, Zhang chao, Liu zheng, Zhang sha, Ma nan, Ke shenggen
		1	Listing of Sources for Test Materials	Household Electric Dishwashers ANSI/AHAM DW-1 - 2010 Appendix A	
		2	Primary and Alternative sources for dishware	Household Electric Dishwashers ANSI/AHAM DW-1 - 2010 Appendix E	



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