



Performance Characteristics and Energy Consumption Measurement of Household Electric Coffee Makers

AHAM CM-1-2017



Leadership > Knowledge > Innovation

1111 19th Street NW ▶ Suite 402 ▶ Washington, DC 20036

f 202.872.9354 ▶ www.aham.org

This is a preview. Click here to purchase the full publication.

Preface

The Association of Home Appliance Manufacturers develops standards in accordance with AHAM's "Policy and Procedures Governing Technical Standards" which states:

"AHAM Standards shall be in the best interest, mutually, of consumers who use appliances, the industries which provide and service appliances, and other interested parties. They shall relate to actual use conditions and be technically and scientifically sound.

Use or observance of AHAM standards is voluntary.

This standard contains test procedures which may be applied to any brand or model of household electric coffee maker for measuring performance. Results of tests in accordance with this standard may be publicly stated.

Recommended levels of performance which are considered important to include but which are recommendations only.

With regard to safety, AHAM recommends that all appliance products – both major and portable -- manufactured or marketed in the United States be submitted to an appropriate independent laboratory for inspection and listing in conformance with the safety standards and procedures followed by such laboratories. The relevant standard for household electric coffee makers is ANSI/UL 1082, "Standard for Safety for Household Electric Coffee Makers and Brewing-Type Appliances."

AHAM welcomes comments and suggestions regarding this standard. Any standard may be reviewed and improved as needed. All standards must be updated or reconfirmed at least every five years. Any interested party, at any time, may request a change in an AHAM standard. Such requests should be addressed to AHAM's President, and should be accompanied by a statement of reason for the request and a suggested alternate proposal.

Copyright © 2017 by the Association of Home Appliance Manufacturers (AHAM)

All rights reserved.

The hard copy print version of this document shall be for individual use only.

The electronic file version of this document shall be for storage on one computer for purposes of viewing and/or printing one copy for individual use only.

This document shall not be reproduced in whole or in part by any means, and shall not be transmitted electronically or otherwise to a third person without the prior written permission of AHAM.

CONTENTS

Section	Page
1. PURPOSE.....	1
2. SCOPE.....	1
3. DEFINITIONS	1
3.1. Household Automatic Percolator.....	1
3.2. Household Automatic Coffee Urn.....	1
3.3. Household Automatic Drip Coffee Maker.....	1
3.4. Single Serve Coffee Maker	2
3.5. Enhanced Features for Coffeemakers.....	2
3.6. Household Espresso Maker.....	3
3.7. Cup Volume.....	3
3.8. Energy usage	3
3.9. Off Mode(s).....	3
3.10. Standby Mode	4
3.11. Active Mode	4
4. STANDARD TEST CONDITIONS AND INSTRUMENTATION	4
4.1. Standard Voltage and Frequency.....	4
4.2. Test Area.	4
4.3. Instrumentation.	4
4.4. Time Keeping Instrument.....	4
4.5. Wattmeter.	4
4.6. Voltage Regulator System.....	4
4.7. Power Analyzer.	4
4.8. Thermocouples.	4
4.9. Sampling Rates.....	4
4.10. Operational Parameters.....	4
5. SAMPLING	5
5.1. Sample Selection Criteria.....	5
5.2. Sample Energy Requirement.	5
6. STANDARD METHOD FOR MEASURING PERFORMANCE	5
6.1. Performance Test Parameters.....	5
6.2. Measuring Levels of Performance	6
7. ENERGY MEASUREMENTS.....	12
7.1. Method.	12
7.2. Coffee Preparation.....	12
7.3. Record Energy Management.	12
7.4. Record Total Watts.	12
7.5. Standby Energy.	12
8. REPORT.....	12
8.1. Information Collection.....	12
9. SAFETY.....	12
ANNEX A DATA SHEETS	17
ANNEX B COFFEE BREWING CONTROL CHART	25