

International Accreditation Service
CERTIFICATE OF ACCREDITATION

This is to signify that

UNDERWRITERS LABORATORIES, INC. - PLANO, TX

801 KLEIN ROAD, SUITE 200
PLANO, TEXAS 75074

Testing Laboratory TL-339
(Revised August 2, 2011)

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ANS/ISO/IEC Standard 17025:2005, *General criteria for the competence of testing and calibration laboratories*, and has been accredited, commencing June 8, 2010, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President



ACCREDITED

(see attached scope of accreditation for fields of testing and accredited test methods)

Print Date: 08/18/2011

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 699-0541.

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International Accreditation Service
SCOPE OF ACCREDITATION

Underwriters Laboratories, Inc. - Plano, TX TL-339
 (Revised August 2, 2011)

Underwriters Laboratories, Inc. - Plano, TX
 801 Klein Road, Ste 200
 Plano, TX 75074

Michael Shows
 Global Business Manager
 (972) 422-8300

FIELDS OF TESTING	ACCREDITED TEST METHODS
ENERGY STAR Program Requirements	<p>Commercial Hot Food Holding Cabinets ASTM Standard F 2140</p> <p>Commercial Ice Machines AHRI 810</p> <p>Commercial Refrigerators and Freezers ANSI/ASHRAE 72</p> <p>Computers/Notebooks, Computers/Tablet Computers Per ENERGY STAR Program Requirements for Computers</p> <p>Dehumidifiers ANSI/AHAM DH-1, Clause 4, 5 and 7</p> <p>Enterprise Servers Per ENERGY STAR Program Requirements for Computer Servers</p> <p>Geothermal Heat Pumps ISO 13256-1, ISO 13256-2 and AHRI 870</p>

June 8, 2010
 Commencement Date



C. P. Ramani
 C. P. Ramani, P.E.
 President



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FIELDS OF TESTING	ACCREDITED TEST METHODS
ENERGY STAR Program Requirements	<p>Light Commercial HVAC AHRI 210/240, ANSI/AHRI 340/360, AHRI 910 and AHRI 1230</p> <p>Refrigerated Beverage Vending Machines ANSI/ASHRAE 32.1 Section 6</p> <p>Residential Air Source Heat Pump (ASHPs) and Central Air Conditioner Equipment AHRI 210/240</p> <p>Residential Refrigerators and/or Freezers 10 CFR 430, Subpart B, Appendix A1, 10 CFR 430, Subpart B, Appendix B1</p> <p>Water Coolers Per ENERGY STAR Program Requirements for Water Coolers</p>
HVAC, performance rating, refrigeration and heating systems and components	<p>Air-Conditioning, Heating, and Refrigeration Institute (AHRI) AHRI Standards 310/380, 320, 325, 330, 365, 390, 410, 440, 550/590, 820 and 1200</p> <p>American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) ASHRAE Standards 20, 29, 30, 32.1, 33 (AHRI 410 method), 37,41.1, 41.2, 41.3, 41.6, 41.7, 41.10, 79, 116, 128 and 133</p> <p>Association of Home Appliance Manufacturers (AHAM) AHAM Standard HRF-1</p>

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FIELDS OF TESTING	ACCREDITED TEST METHODS
HVAC, performance rating, refrigeration and heating systems and components (continued)	British Standards (BS) BS-EN Standard 14511-3, Parts 1, 2 and 3 Canadian Standards Association (CSA) CSA Standards C656, C742, C743, C746 and C749 International Standards Organization (ISO) ISO Standards 5151, 7371 and 7371 Amendment 1, 8187, 8187 Amendment 1, 8561 and 8561 Amendment 1 Japanese Industrial Standard (JIS) JIS Standard C 9612 Saudi Arabian Standard Organization (SASO) SASO Standards 2663, 2664 and 3

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