



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

**UL LLC**

801 KLEIN ROAD, SUITE 200  
PLANO, TEXAS 75074, U.S.A.

**Testing Laboratory TL-339**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date September 30, 2022



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

**UL LLC**

[www.ul.com](http://www.ul.com)

**Contact Name** Terrence Farrell

**Contact Phone** +1-972-509-1321

*Accredited to ISO/IEC 17025:2017*

*Effective Date September 30, 2022*

<b>Energy Star</b>	
ENERGY STAR Program Requirements Product Specification for Air Source Heat Pump (ASHP) and Central Air Conditioner Equipment	
ENERGY STAR Program Requirements Product Specification for Dehumidifiers	
ENERGY STAR Program Requirements Product Specification for Geothermal Heat Pumps	
ENERGY STAR Program Requirements Product Specification for Light Commercial HVAC	
<b>Heating/Cooling Performance</b>	
10 CFR 430	Energy conservation program for consumer products (subpart B, appendix A, A1, B, B1, M, X and X1)
10 CFR 431	Energy conservation program for consumer products (subparts C, F, H, and Q)
AHRI 210/240	Performance rating of unitary air-conditioning and air-source heat pump equipment
AHRI 310/380	Standard for packaged terminal air-conditioners and heat pumps
AHRI 320	Water-source heat pumps
AHRI 325	Ground water-source heat pumps
AHRI 330	Ground source closed-loop heat pumps
AHRI 340/360	Performance rating of commercial and industrial unitary air-conditioning and heat pump equipment
AHRI 365	Performance rating of commercial and industrial unitary air-conditioning condensing units
AHRI 366	Performance rating of commercial and industrial unitary air-conditioning condensing units
AHRI 390	Performance rating of single package vertical air-conditioners and heat pumps
AHRI 410	Forced-circulation air-cooling and air-heating coils
AHRI 440	Performance rating of room fan-coils

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AHRI 550/590	Performance rating of water chilling packages using the vapor compression cycle
AHRI 551/591	Performance rating of water-chilling and heat pump water-heating packages using the vapor compression cycle
AHRI 910	Performance rating of indoor pool dehumidifiers
AHRI 1160	Performance rating of heat pump pool heaters
AHRI 1161	Performance rating of heat pump pool heaters
AHRI 1230	Performance rating of variable refrigerant flow (VRF) multi-split air-conditioning and heat pump equipment
ANSI/AHAM DH-1	Major appliance performance standard for residential dehumidifiers (clauses 4, 5 and 7)
ANSI/AHRI 340/360	Performance rating of commercial and industrial unitary air conditioning and heat pump equipment
ASHRAE 30	Method of testing liquid-chilling packages
ASHRAE 33	Methods of testing forced-circulation air-cooling and air-heating coil (AHRI 410 Method)
ASHRAE 37	Methods of testing for rating electrically driven unitary air-conditioning and heat pump equipment
ASHRAE 41.1	Standard method for temperature measurement
ASHRAE 41.2	Standard methods for laboratory airflow measurement
ASHRAE 41.3	Standard methods for pressure measurement
ASHRAE 41.6	Standard method for humidity measurement
ASHRAE 41.7	Standard methods for gas flow measurement
ASHRAE 41.10	Standard methods for refrigerant mass flow measurement using flowmeters
ASHRAE 79	Method of test for fan-coil units
ASHRAE 116	Methods of testing for rating seasonal efficiency of unitary air conditioners and heat pumps
ASHRAE 128	Method of rating portable air conditioners
ASHRAE 133	Method of testing direct evaporative air coolers
ASHRAE 146	Methods of testing and rating pool heaters (only heat pump pool heaters)
ASHRAE 190	Method of testing for rating indoor pool dehumidifiers
ASHRAE 13256-1	Water-source heat pumps - testing and rating for performance - part 1: water-to-air and brine-to-air heat pumps

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ASHRAE 13256-2	Water-source heat pumps - testing and rating for performance - part 2: water-to-water and brine-to-water heat pumps
CAN/CSA C656	Performance standard for split-system and single-package air conditioners and heat pumps
CAN/CSA C743	Performance standard for rating packaged water chillers
CAN/CSA C746	Performance standard for rating large and single packaged vertical air conditioners and heat pumps
CAN/CSA C749	Energy performance of dehumidifiers
ISO 5151	Non-ducted air conditioners and heat pumps -- testing and rating for performance
ISO 13253	Ducted air-conditioners and air-to-air heat pumps -- Testing and rating for performance
ISO 13256-1	Water-source heat pumps -- testing and rating for performance -- part 1: water-to-air and brine-to-air heat pumps
ISO 13256-2	Water-source heat pumps -- testing and rating for performance -- part 2: water-to-water and brine-to-water heat pumps
ISO 16358-1:2013	Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors — Part 1: Cooling seasonal performance factor
ISO 16358-1:2013/ COR 1:2013	Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors — Part 1: Cooling seasonal performance factor — Technical Corrigendum 1
ISO 16358-1:2013/ Amd 1:2019	Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors — Part 1: Cooling seasonal performance factor — Amendment 1
SASO 2663:2014	Energy labelling and minimum energy performance requirements for air-conditioners
SASO 2663:2018	Air Conditioners - Minimum Energy Performance, Labelling and Testing Requirements for Low Capacity Window and Single-Split Types
SASO 2663:2021	Air Conditioners – Minimum Energy Performance, Labelling and Testing Requirements for Low Capacity Window and Single-Split Types
SASO 2682:2013	Ducted air-conditioners and air-to-air heat pumps – testing and rating for performance
SASO ISO 5151:2021	Non-ducted air conditioners and heat pumps — Testing and rating for performance
<b>Heating/Cooling Safety</b>	
CSA C22.2 No. 236	Heating and Cooling Equipment

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	(Only Clauses 47, 48, 50, 51, 52.2-52.4, 58, 61)
CSA-C22.2 No. 60335-1	Safety of Household and Similar Electrical Appliances, Part 1: General Requirements (Only Clauses 9, 10, 11, 13.2, 13.3, 22.18)
CSA C22.2 No. 60335-2-40	Household and Similar Electrical Appliances – Safety - Part 2:40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers (Only Clauses 9, 10, 11, 13.2, 13.3, 19.101, 19.102, 19.103, 22.18)
UL 1995	Heating and Cooling Equipment (Only Clauses 47, 48, 50, 51, 52.2-52.4, 58, 61)
UL 60335-1	Safety of Household and Similar Electrical Appliances, Part 1: General Requirements (Only Clauses 9, 10, 11, 13.2, 13.3, 22.18)
UL 60335-2-40	Household and Similar Electrical Appliances – Safety - Part 2:40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers (Only Clauses 9, 10, 11, 13.2, 13.3, 19.101, 19.102, 19.103, 22.18)

*AHAM: Association of Home Appliance Manufacturers*

*AHRI: Air-Conditioning, Heating, and Refrigeration Institute*

*ASHRAE: American Society of Heating, Refrigerating and Air-conditioning Engineers*

*SASO: Saudi Arabian Standard Organization*