

— APPLIED



RESEARCH LABORATORIES OF SOUTH FLORIDA, LLC —

5371 N.W. 161st Street • Miami, Florida 33014-6223  
www.arl-test.com • info@arl-test.com  
Tel: 305.624.4800 • Fax: 305.624.3652

# OVERVIEW OF ARL'S ENERGY STAR<sup>®</sup> SERVICES



5371 N.W. 161st Street • Miami, Florida 33014-6223  
www.arl-test.com • info@arl-test.com  
Tel: 305.624.4800 • Fax: 305.624.3652

## OVERVIEW OF ARL'S ENERGY STAR® SERVICES

Applied Research Laboratories of South Florida, LLC (ARL) is a full service, accredited testing and certification agency which provides testing for compliance to the U.S. Environmental Protection Agency (EPA) ENERGY STAR® program. We are independent of any government or manufacturing organization and have been engaged in testing for more than seventy (70) years. What makes us truly distinctive is our exceptional, personalized service and fast turn-around times.

Energy Star performance, verification and challenge tests are performed by ARL to assure compliance with the current EPA Energy Star requirements within ARL's scope of accreditation.

ARL's has a broad base of testing capabilities and experts who can help you throughout the process of becoming an Energy Star partner and proudly displaying the Energy Star Mark on your product. ARL specializes in Energy Star performance testing and certification of water coolers, residential heat pump water heaters, central air conditioners, air source heat pumps, light commercial HVAC, room air conditioners and geothermal heat pumps. To view descriptions of the individual product categories under ARL's Energy Star scope please go to ARL's website, arl-test.com.

ARL's is an EPA- recognized third-party testing laboratory and product certification body under the EPA's ENERGY STAR® Program. ARL is recognized as capable of meeting the requirements to perform the testing and certification activities of the Energy Star program including:

- **Testing and Certifying Product:** Products tested by ARL that meet or exceed the Environmental Protections Agency's specifications for participation in the ENERGY STAR program and become eligible for ARL's on-going certification program ensuring the consumer that the client's company is committed to producing energy efficient products that are exact replicas of the original product tested by ARL.
- **Authorizing the use of the ENERGY STAR® Name and Mark:** Specific purpose marks are sanctioned by the U.S. Environmental Protection Agency for use by partners on certified and approved products within the ENERGY STAR program.



- **Verification Testing:** Annual testing performed by ARL to verify an ENERGY STAR certified product continues to perform as required by ENERGY STAR program specifications
- **Challenge Testing:** Testing performed by ARL to verify an ENERGY STAR Certified Product performs as required by ENERGY STAR program specifications when another ENERGY STAR Partner provides viable evidence to the Certifying Body disputing the product's performance. ARL will notify the client of any challenge tests being performed if not already done so by the challenger.

ARL is also accredited with IAS (International Accreditation Service) as a testing laboratory (TL-222) to ISO/ IEC 17025- 2017, *General requirements for the competence of testing and calibration laboratories* and as a certification body (PCA-120) to ISO/IEC 17065- 2012, *Conformity assessment- Requirements for bodies certifying products, processes and services*. ARL's Energy Star program follows scheme type 2 of ISO/IEC 17067, *Conformity assessment- Fundamentals of product certification and guidelines for product certification schemes*.

An Energy Star Partner's product tested by ARL which meets the applicable Energy Star requirements and is accepted in the EPA's Energy Star program will receive:

- a certificate of performance identifying the product or product family, date of issuance, client to whom it is being issued, client's trademark (if any), model numbers and the applicable Energy Star Program
- an Energy Star Certification Product Report indicating that the product is eligible for ARL's Energy Star Product Certification and Verification Program
- an Energy Star Verification Service Procedure for the Energy Star Certification Report
- authorization to use the ENERGY STAR name and Mark on their product and its marketing information

This program is designed to assure interested parties that Energy Star certified products listed in ARL's Listed Products Directory have been tested. were found to comply with current EPA Energy Star requirements and are under a continuing verification program.



## **WHY DO I NEED AN ENERGY STAR® LISTING FOR MY PRODUCT?**

ENERGY STAR® is the government-backed symbol for energy efficiency, providing simple, credible, and unbiased information that consumers and businesses rely on to make well-informed decisions.

ENERGY STAR is the simple choice for energy efficiency, making it easy for consumers and businesses to purchase products that save them money and protect the environment. EPA ensures that each product that earns the label is independently certified to deliver the efficiency performance and savings that consumers have come to expect. It's that integrity that led Americans to purchase more than 300 million ENERGY STAR certified products in 2018.

## **APPLYING TO ARL FOR AN ENERGY STAR LISTING**

To become eligible for ARL's Energy Star Services, the brand owner/ retailer/ distributor/ etc. must become an Energy Star partner committed to saving energy in homes and businesses through energy efficient products and practices. Partnership agreements are made directly with the EPA's Energy Star Program and can be accessed on-line at [energystar.gov](http://energystar.gov).

In addition, the product in question must undergo testing related to the applicable requirements of the EPA's Energy Star Program. All inquiries should be submitted to ARL on ARL's Request for Quote Form (available upon request at 1-305-624-4800 or [www.arl-test.com](http://www.arl-test.com)) and must include all the applicable information pertaining to the product or family of products to be tested.

When evaluating the initial information supplied, an impartial ARL Engineer will contact the potential client to discuss the project and the testing plan for the product. The ARL Engineer will determine the appropriate Energy Star requirements (using the most current version of the applicable EPA requirements). The decision to continue with the testing program will be made once it has been determined that the product can be adequately tested within ARL's scope of accreditation, capabilities and resources.

ARL and its personnel are obligated to report to the EPA any attempt of undue

influence related to its ENERGY STAR Program.

A Product Submission Package to assist in the submission of items essential to do the testing and completing the lab report is sent to the client to the prospective client containing:

- an Application for Energy Star Product Certification (detailing the services being offered and responsibilities of both parties)
- a Product Submission Guide
- a Sample Submission Form
- the estimated testing fee (quote)

After reviewing the Application for Energy Star Product Certification from ARL and quote, the client must then sign and return it along with the required check in prepayment to establish an ARL project file. Items required by ARL for the test program are:

- the test sample(s) indicated on the Sample Submission Form
- other items as requested by the Project Engineer or Director of Engineering on the Test Procedure Submission Application or Test Plan.

More details about ARL's Energy Star program, its documentation and/or the contents of ARL's applications and agreements are available upon request by contacting ARL by phone or throughout or website.

## **PRODUCT EVALUATION AND TESTING**

Following receipt of both the signed Application, pre-payment, the required client supplied information, materials and samples, the project will be scheduled. The Project Engineer will oversee all aspects of the product evaluation including the engineering review, component acceptability and testing to determine if the product meets all applicable Energy Star requirements.

The client will be notified in writing of any issues including additional information needed.

Upon successful, satisfactory completion of testing, evaluation, and review of all related information, the file will be forwarded to our Technical Writing Department. An Energy Star Certification Report is prepared. At that time the product is eligible

for the next step in the process, signing of the Energy Star Certification and Verification Agreement.

The ENERGY STAR Product Certification and Verification Agreement details the conditions of compliance for a manufacturer to maintain an on-going product listing with ARL's ENERGY STAR Program. The Agreement authorizes ARL to annually procure representative product samples for the purpose of verifying product performance to the applicable ENERGY STAR performance requirements. The Agreement also authorized ARL to perform testing on a representative product sample from the open market when an appropriate challenge is presented against the product's performance.

ARL is obligated to report all Energy Star related test results, whether it be initial, verification or challenge testing to the EPA.

### **PRODUCT LISTING, VERIFICATION AND CHALLENGE SERVICE**

Once all the following criteria have been met, and an ENERGY STAR Product Certification and Verification Service Agreement is signed by both parties (detailing the services being offered and responsibilities of both parties), the product will appear on-line in ARL's Listed Product Directory located at arl-test.com:

- a satisfactory engineering review and the appropriate performance testing for the product has been successfully completed
- the client has supplied required information to accurately document the product and has added ARL as an "additional insured" to their product liability insurance.
- the final Energy Star Certification Report and Verification Service Procedure has been signed and issued to the client
- a certificate of performance to the applicable Energy Star requirements for the product has been signed and issued by the President of ARL/designee.
- the client has become a partner with the EPA/DOE in the applicable Energy Star Program
- the client agrees to participate in Verification and Challenge Testing and authorizes ARL to obtain samples from the open market for testing to determine compliance to current ENERGY STAR performance requirements as needed
- ARL notifies the EPA of the addition of the product to the Energy Star Program

and it is accepted into the program. (Product listings will appear on the Energy Star website at energystar.gov)

Only **after** all the above steps have been satisfactorily completed can the Energy Star name or Mark:

- Appear on exact replicas of the product tested by ARL
- Appear in any marketing information associated with the Energy Star listed product

## **ENERGY STAR MARK**

The Energy Star Partner through written agreement with ARL, is authorized to apply the Energy Star mark only to products found eligible by ARL's to participate in the Energy Star Program. The mark may be imprinted or made a permanent part of the listed product as approved by ARL.

## **MARKET SAMPLING**

Open market or selected by ARL personnel from warehouse samples will be obtained and tested by ARL annually as per ARL's sampling plan or when challenged to verify that the Energy Star mark is being affixed only to products that continue to meet the EPA's Energy Star requirements.

From time to time, ARL personnel will acquire products on the open market for re-evaluation. Verification and challenge testing is performed to assure the public and other interested parties that ARL listed products which bear the Energy Star Mark continue to meet the applicable EPA's Energy Star qualifying criteria.

In the unlikely, rare event that an Energy Star listed product becomes delisted, either voluntarily or in-voluntarily, the client will cease to use the Energy Star Mark or name on their product or marketing material related to that project once it has been determined by ARL to no longer to be eligible. ARL will inform the client and report all resolutions and discrepancy decisions to the EPA/DOE concerning the client's product in or formerly in ARL's Energy Star Program. Complaints and appeals can be sent to ARL by mail, through our website or by calling ARL directly and will be addressed in a timely manner.

ARL will maintain the documentation related to your listed product for a minimum of



five (5) years after the product has been delisted.

## **NO WORRIES OUR EXPERTS WILL HELP YOU EVERY STEP OF THE WAY**

**Our small business atmosphere allows our clients direct access to our engineers and support staff, providing that one-on-one personal contact and attention that larger corporations cannot share with their clients.**

## **CONTACT US TODAY TO DISCUSS YOUR PROJECT**



**Applied Research Laboratories of South Florida, LLC  
5371 N. W. 161<sup>st</sup> Street  
Miami, FL 33014  
T 305•624•4800 F 305•624•3652  
info@arl-test.com  
www.arl-test.com**