AHRI DIRECTORY OF CERTIFIED PRODUCT PERFORMANCE – USER GUIDE FOR LICENSEES

Version 1.12, 10/18/2021

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Preface

The AHRI Directory of Certified Product Performance is available for products under the following categories:

Residential

Air Conditioners and Air Conditioner Coils

Boilers

Direct Geoexchange Heat Pumps

Direct Heating Equipment

Furnaces

Heat Pumps and Heat Pump Coils

Heat Pump Pool Heaters

Indirect Water Heaters

Variable-Speed Mini-Split and Multi-Split Air Conditioners

Variable-Speed Mini-Split and Multi-Split Heat Pumps

Water Heaters

Water-Source Heat Pumps

Commercial

Air-Cooled Chillers

Air-to-Air Energy Recover Ventilators Components

Air-to-Air Energy Recover Ventilators Packages

Automatic Commercial Ice-Cube Machines and Ice Storage Bins

Boilers

Central Station Air-Handling Unit Casings

Central Station Air-Handling Unit Supply Fans

Commercial Refrigerated-Display Cases

Datacom Cooling

Finned Tube Radiation

Forced-Circulation Heating and Cooling Coils

Furnaces

Liquid to Liquid Brazed & Fusion Bonded Plate Heat Exchangers

Liquid to Liquid Heat Exchangers

Non-Condensable Gas Purge Equipment for Use with Low Pressure Centrifugal Liquid Chillers

Packaged Terminal Air Conditioners and Heat Pumps

Reclaimed Refrigerants

Refrigerant Recovery/Recycling Equipment

Refrigerant Testing Laboratories

Room Fan Coil Units

Single Package Vertical Air-Conditioners and Heat Pumps

Transport Refrigeration

Unit Coolers

Unit Ventilators (PDF Directory)

Unitary Large Equipment

Variable Air Volume (VAV) Terminals

Variable Frequency Drives

Variable Refrigerant Flow (VRF) Air-Conditioners and Heat Pumps

Water Heaters
Water-Cooled Chillers
Water-Source Heat Pumps

Quick Start Tips

Users are encouraged to review this manual in its entirety to fully understand how to use the Directory. However, here are some quick tips and information for using the tool effectively:

- AHRI has migrated data from the old system for all licensees who were participants in the certification program as of 12/29/2017.
 - The Directory only allows one brand name per record. For any record migrated from the old system which had multiple brands names under the same reference number, these brands have been split into individual records. Each of these records has been assigned a new reference number. The old reference number, as well as the new reference number, are searchable. The old reference number will continue to appear alongside the new reference number for a few months while Licensees update marketing materials.
- The Directory permits the same model number to be used more than once provided the brand name on each record is different. There is no requirement for the different brand records to have the same ratings.
- Model statuses are slightly different than the old system. "Production Stopped" replaces
 "Discontinued." Models with "Production Stopped" model statuses are those that an AHRI
 Certification Program Participant is no longer producing BUT is still selling or offering for sale.
 "Discontinued" replaces "Archived." Models with "Discontinued" model statuses are those that
 an AHRI Certification Program Participant model no longer produces AND is no longer selling or
 offering for sale.
- To add/edit records and view non-published data the licensee must log into the Directory. To log
 into the Directory, the user must have an AHRI account and be configured by AHRI Staff. Contact
 AHRI Certification to request access or assistance.
- Use the utilities under "Manage Directory Records" to add and edit records. Do not use the "Upload Files" utility which is only intended for sending PDF files (i.e. test reports) to AHRI.
- Before creating records, the licensee must have at least one brand name in the system. If the
 program contains regulated product, the licensee must have at least one manufacturer name in
 the system. These can be added through the "Manage Brand" and "Manage Manufacturer Name"
 functions.
- For programs dependent on characteristics records (i.e. USAC, VSMSAC, USHP, VSMHP, VRF, ERV), at least one active characteristic record must exist in the database before a licensee can create a new OEM certified product record.
- If using mass add/edit templates:
 - There are rules for how the files to be uploaded must be named. Failure to follow the file naming convention will result in the system being unable to recognize the file.
 - The system can only accept data inserted into the .xlsx templates downloaded from the system or in .txt tab delimited format (available for mass add records only).

- The user does not have to remain logged into the system while an uploaded file is processing. The user will receive an email when the system has finished processing the file or notification if the file was unable to be processed. Log into the system and review the Mass Upload Status dashboard to confirm success/failure of file uploads. Also access failed record files from this dashboard. These files can be downloaded, corrected based on validation errors, and uploaded to the system again.
- The system has a maximum upload file size of 25,000 records.
- A maximum of 500,000 records can be accessed through the View/Download functions.

Important Terminology

Active (Licensee status) – a licensee who is a current applicant or participant in the AHRI Certification Program

Active (model status) – a record in production, or one that is being marketed, but is not yet in production. An "Active" record is certified. Participant records with model status "Active" have passed validation.

Applicant – a licensee who has applied for entry into an AHRI Certification Program

Authenticated user – an individual with permission to sign into the AHRI Directory with the purpose of accessing back-end functions. OEM licensee users, AHRI Certification staff, and subscribers are authenticated AHRI Directory users.

Brand name – name that a product or group of products is traded under for commercial purposes. Generally, brand name is how the product is recognized by the HVACR industry and its consumers. Brand name may or may not be the same as licensee name and/or manufacturer name. Brand name appears on Energy Guide labels.

Discontinued (model status) – model no longer in production or available for sale. A "Discontinued" model is not certified

Disqualified (model status) – applicant record that has been disqualified

Obsolete (model status) – model no longer in production or available for sale as a result of test failure. An obsolete model is not certified.

Inactive (Licensee status) – a licensee who is not a current applicant or participant in the AHRI Certification Program

Licensee (aka licensee name) - Name of the corporate entity on the License Agreement. A licensee may be an OEM and/or PBM in an AHRI Certification Program. A licensee is an applicant or a participant.

Licensee User – An authenticated AHRI Directory user who works for an OEM licensee. A licensee User, based on role, can manage and/or view data for the OEM licensee and, if applicable, associated PBM licensee(s).

Manufacturer name – corporate entity who owns a record. Manufacturer name is only collected for regulated products so it can be reported to applicable agencies and is not a published field in the AHRI Directory. In many cases manufacturer name will be the same as the licensee name. However, it is not required to be the same as the licensee name.

Participant – A licensee who certifies products through an AHRI Certification Program

Production stopped (model status) – model no longer in production but is still available for sale. A "Production Stopped" model is certified.

Qual (model status) – a validated applicant record stored in the Directory. A "Qual" record is not certified or published in the Directory because the applicant is still in the process of qualifying for entry into the certification program.

Role – a property of an authenticated user that determines the type of features available to the User

Authenticated User Type	Available Roles
AHRI Staff	Administrator, Certification Coordinator, Engineer
Licensee	Data Master, Data Entry, Data View Only
Subscriber	Subscriber

Unauthenticated user – any individual who goes to the Directory website and uses it without being logged into the system (i.e. public user)

Validated record – a record the system has determined includes all required data fields, and each of these fields meets requirements for expected format, range, value, and/or data type.

Functionality for Authenticated Users

AHRI Staff Roles			Licensee Roles				
Functionality	Administrator C	Coordinator	Engineer	Data Data Data		Subscriber	
	Auministrator	Coordinator	Liigiileei	Master	Entry	View	
Setup and manage licensee profiles: - Convert Applicant to Participant - Licensee Agreement termination	х						
Setup and manage Licensee profiles: - User Licensee association - Associate Licensee Users to programs - Licensee login locations - Licensee user login locations - Licensee user roles - Assign OEM-PBM relationships	x	x					
- User accounts View/download Licensee	x	х	х				
Agreement information Assign/manage roles and programs to AHRI Staff and Subscribers	х						
Set up and assign programs to a subscriber	х	х					
Create Licensee's brand name list	х			x			
View/download Brand Name list	х	х	x	х	х	х	
Create Licensee's Manufacturer Name list (relevant to regulated programs)	х			x			
View/download Manufacturer Name list for a selected Licensee (relevant to regulated programs)	х			x	х	x	
Add records	х			х	Х		
Edit records	х			х	Х		
Manage footnotes	Х						

	AHRI Staff Roles			Licensee Roles			Subscriber	
Functionality		Coordinator			Data Data Data			
	Administrator	Coordinator	Engineer	Master	Entry	View		
View/download published and	V	v	v	V	V	_		
non-published data	X	Х	Х	Х	Х	Х		
Upload PDF files to AHRI	х			Х	х			
View Coil Descriptor Reports	х		Х	Х	х	х		
Lock/unlock records	x		Х					
Approve records	х		Х					
Hide/unhide records	х							
Re-rate records	х		Х					
Review/approve regulatory								
reports (CEC, DOE, EPA,	х							
NRCan)								
Review/approve EPA			.,					
submissions			Х					
Review/upload CEC and	,	,						
NRCan data	X	Х						
Save and run queries of Public								
Directory by Subscription							x	
Program								
Dashboard: Multiple Upload								
Status list	X			Х	X	Х		
Dashboard: List of Energy Star								
Submissions	X		Х	Х	X			
Dashboard: Daily Report of								
Added Records	X		Х					
Dashboard: Daily Report of	х	х						
Modified Records			Λ					
Dashboard: List of Rerated								
Records that fall outside the								
acceptable range for ENERGY	Х	^		Х				
STAR fields								
Dashboard: View/download								
PDFs that have been uploaded	х		х					
by Licensees								
Dashboard: Notification of								
New or Terminated	х	x	х					
Applicants/Participants								

Logging In/Out as an Authenticated User

A user must have an AHRI account designated with directory access to log in. This is the same AHRI account and credentials required to register for AHRI Spring/Annual Meetings or to access iSTARS. After the user's AHRI account access has been created, AHRI will associate that user with a licensee(s), program(s), location(s), and assign a role. After this has been done the user will have authenticated user access to the Directory. Any user requiring an AHRI account or access should contact directorychanges@ahrinet.org.

User will only be able to access the program(s) assigned to them at the assigned role level. If the user has access to multiple programs, the user will have the same role for each of these programs.

A licensee user may hold the dual role of subscriber.

To log into the AHRI Directory:

- 1. Go to https://ahridirectory.org
- 2. In the upper right-hand corner of screen, click "Login."
- 3. Sign in with an AHRI user name and password.

At the end of the session, click the "<User Name>" at the top of the screen, and select "Log Out." For security purposes, after 15 minutes of no activity the system will automatically log the user out.

Record Management Functions for Licensee Users

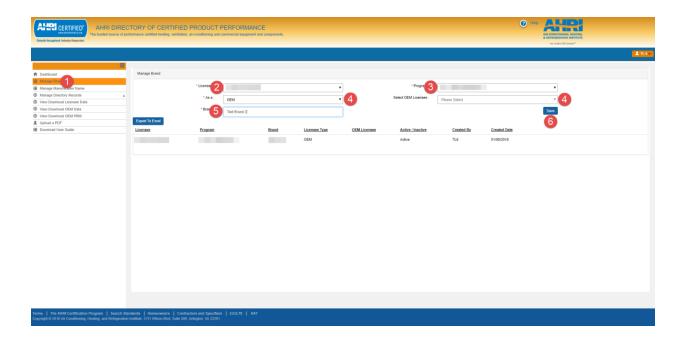
Managing Brand Names

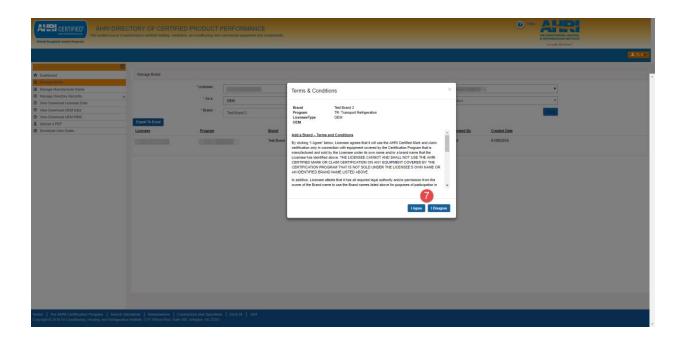
Each record, excluding characteristics records (i.e. USAC, VSMSAC, USHP, VSMSHP, VRF, ERV characteristics), must have a brand name. A list of brand name(s) must be created using the "Manage Brand" function before any product records can be created. A list of these brand names will appear in a drop down menu when a user creates new records.

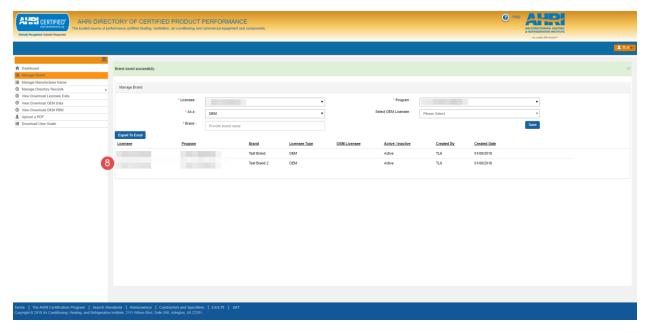
Only users with the assigned role of Licensee Data Master are able to add brand names to the list. However, other licensee users (Data Entry and Data View) are able to view and download the brand name list by one of the functions to view data as an authenticated user.

Brand names cannot be edited once they are created. "Brand Name" is not an editable field on records. For products with an FTC label, the brand name will appear on this label.

- 1. Select "Manage Brand" from the left-hand menu.
- 2. Select the licensee from the drop down menu.
- 3. Select the program from the drop down menu.
- 4. Select OEM or PBM. If the licensee is a PBM, select the corresponding OEM licensee.
- 5. Enter the brand name.
- 6. Click "Save."
- 7. Review and accept the Terms and Conditions.
- 8. The new brand name is viewable as active in the "Brand Name" list and a user can now create product records with it.







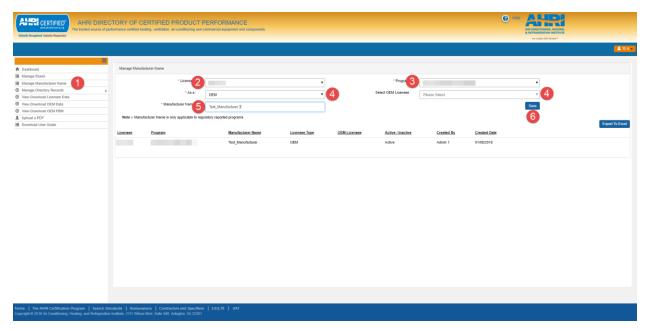
Managing Manufacturer Names

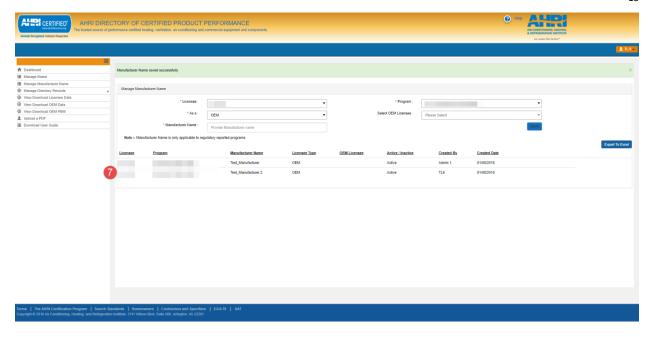
Manufacturer name is a required field for all regulated products. A list of manufacturer name(s) must be created, using the "Manage Manufacturer Name" function before any regulated product records can be created. A list of these manufacturer names will appear in a dropdown menu when a user creates new records.

Only users with the assigned role of Licensee Data Master are able to add manufacturer names to the list. However, other licensee users (Data Entry and Data View) are able to view and download the manufacturer name list by one of the functions to view data as an authenticated user.

Manufacturer names appearing in the "Manufacturer Name" list cannot be edited. "Manufacturer Name" is not an editable field in the product record.

- 1. Select "Manage Manufacturer Name" from the left-hand menu.
- 2. Select the licensee from the drop down menu.
- 3. Select the program from the drop down menu.
- 4. Select OEM or PBM. If the licensee is a PBM, select the corresponding OEM licensee.
- 5. Enter the manufacturer name.
- 6. Click "Save."
- 7. The new manufacturer name is viewable as active in the "Manufacturer Name" list and a user can now create product records with it.





Managing Directory Records

Licensee users (roles: Licensee Data Masters and Licensee Data Entry) may add and edit records en masse. These records will be validated by the system to ensure they include required fields and meet format, range, value, and/or data type requirements.

Publication Delays to Certified Records

Validated new and edited records may not immediately appear on the public AHRI Directory if:

- The program requires an AHRI Certification Engineer to approve new or edited records/BMGs before they can be published.
- The program contains records that are submitted to DOE. AHRI is required to submit records to DOE before they can appear in any of the AHRI public searches on the directory. A daily overnight process runs to submit these records to DOE. Therefore, these records will appear on the public AHRI Directory following successful submission to DOE and approval from an AHRI Certification Engineer (if applicable).
- The records failed DOE submittal requirements. If licensee user does not see their new records
 published, they should go to Manage Directory Records > View DOE Error Report. Make
 appropriate corrections using the Multiple Edit template.

Even if not viewable on the public AHRI Directory yet, authenticated AHRI staff and licensee users may view validated records through the "View/Download Licensee Data" and "View/Download OEM Data" functions.

New and edited validated records that are submitted to Energy Star will appear on the AHRI Directory after successful submission to DOE and AHRI Certification Engineer approval (if applicable). However, they will not be submitted to Energy Star or appear on the CEE site until specific Energy Star approvals are

provided by AHRI staff. Once AHRI Energy Star approval is obtained for the records, they will be marked as "Is Energy Star Approved by AHRI" = Yes when viewing data as an authenticated user. The records will then be submitted to Energy Star, and with a successful submittal be published to the CEE site. Please note that "Submit to Energy Star" can initially be set to "No" when the record is created then updated to "Yes" at a later time.

Mass Upload Batch Acceptance and Upload Status Dashboard

Depending on the uploaded file size, this mass upload process can take a few seconds up to several hours.

When the user uploads a mass upload template there will be on-screen confirmation that the system has accepted (or not accepted) the batch of records for processing.

- If the system has accepted the batch for processing, a Batch ID will be assigned for the user's
 reference. While the system is processing the batch, the user may continue using the system or
 log out.
- If the system has not accepted the batch for processing this may indicate the upload file is named incorrected or there is a system error, in which case the user should contact AHRI.

When the system has finished processing a batch, the user will receive an email.

- If the email confirms the batch was successfully processed the user should log back into the system and view the "Mass Upload Status" on the dashboard to confirm if all records were successfully uploaded or if their were validation failures. Further details on what is included on the dashboard are below.
- If the email indicates the batch was not successfully processed it is likely the uploaded template
 contained unexpected data types or the template was corrupt. These errors prevented the
 records from undergoing the final data validation process. Verify the template observes the rules
 specified in "Adding Multiple Records." After making necessary corrections the file can be
 reloaded.

The "Multiple Upload Status" on the dashboard provides information including batch ID, licensee, location, program, the user who uploaded the file, the uploaded file name, the date and time the file was uploaded to the system, the status of the upload, how many records were successful, how many were unsuccessful, and links to download the successful and failed records.

- If any records fail, click the "Download Results" hyperlink under "Failed Records File." This will open the file of records that failed, along with validation error messages in column B. The user, observing rules specified in "Adding Multiple Records", should correct and upload the file again. Records that fail to pass validation are not stored in the AHRI database and are not certified.
- The "Multiple Upload Status" on the dashboard retains information on uploaded record batches for 14 calendar days, after which the information is no longer available.

The dashboard is specific to the licensee user and will not show files uploaded by other licensee users.

Adding Records

Preparing to Add Records

Before any records can be added to the system, the licensee must have a brand name list consisting of at least one brand name. If the program contains regulated reported products the licensee must also have a manufacturer list consisting of at least one manufacturer name. Products in non-regulated programs do not need a manufacturer name.

For products dependent on characteristics records (i.e. USAC, VSMSAC, USHP, VSMSHP, VRF, ERV), active characteristics record(s) must be in the database before certified records can be created.

General Notes about Adding Records

For licensees who are applicants all validated records are automatically placed in "Model Status" = Qual. These records will not appear in any of the public searches on the Directory because the Licensee is still in the process of joining the program. However, authenticated AHRI staff and licensee users may still view these records through the "View/Download Licensee Data" and "View/Download OEM Data" functions.

For licensees who are participants, upon successful validation, records are placed in "Model Status" = Active. As soon as records are validated they will immediately appear on the public AHRI Directory except in the cases noted in "Publication Delays to Certified Records."

PBM records can only be created based on OEM participant records. AHRI must have a licensee agreement on file capturing the OEM/PBM licensee relationship. PBM records cannot be created if the associated OEM is still an applicant.

A program/brand name/model number combination can only exist one time in the AHRI database. Even if a licensee has already used a particular program/brand name/model number combination, but (regardless of reason) discontinued that record, a new record cannot be created with that combination.

Once created, it is not possible to edit the brand name, model number, or manufacturer name of a record. If the licensee needs to make changes, the record in question will need to be discontinued (with Discontinued Reason of 'Administrative, data entry' to identify it as invalid) and a new one created.

Adding Multiple Records

It is important for the user to observe the following when using the "Multiple Entry" function:

- When adding new records, the system can only accept data inserted into the .xlsx templates downloaded from the system or through a .txt tab delimited file containing the exact field names as shown in the .xlsx templates.
- The .xlsx templates do not appear to start at Column A. This is intentional. There are hidden columns embedded within the template which assist in the upload process. Do no unhide, edit, or erase these hidden columns. If setting up a .txt tab delimited file, it is unnecessary for you to incorporate these hidden columns in your file.
- Do not add extra columns, rearrange, or delete columns to the .xlsx template or your .txt tab delimited file.

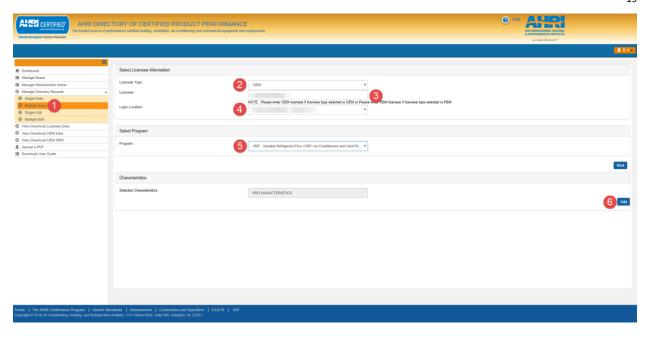
- If editing a file that contains a column for validation errors, do not delete the column. The system will ignore this column when the file is processed.
- Do not add data beyond the last column.
- Do not add, edit, or delete data contained in the "Data" and "Brands" tabs of the file.
- For fields able to accept more than one value, separate multiple values with a semi-colon.
- Some fields contain basic validations within the cells, such as format or range validations, and will force the user to enter valid data. However, these validations are bypassed if a value is pasted into the cell. Another comprehensive validation check will occur when the file is uploaded to the system.
- Before saving and uploading the template to the system do not erase the header rows containing field names and content expectations.
- Save the upload file to the local computer or network.
 - When naming the file do not change anything before "_Template." This ensures the program, licensee type and product type are retained and our system recognizes which validations to apply against the template.
 - Example: The template may download with the name HPPH_OEM_Template. When renaming the file after data has been added/revised, do not remove HPPH_OEM from the beginning of the file name. The user is allowed to add aditional characters after HPPH_OEM (i.e. HPPH_OEM_AA_82217).

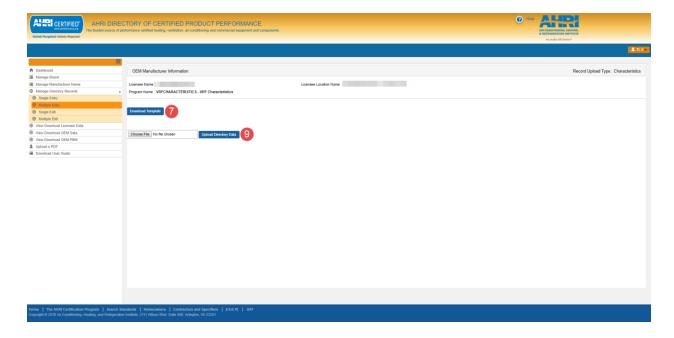
Adding Multiple Characteristic Records

This is only applicable to programs dependent on characteristics records (i.e. USAC, VSMSAC, USHP, VSMHP, VRF, ERV). At least one active characteristic records must exist in the database before a Licensee can create a new OEM certified product record.

The mass upload template can be used to add one up to several thousand characteristics to the Directory.

- 1. Select "Multiple Entry" from the "Manage Directory Records" drop down on the left-hand menu.
- 2. Select OEM from the "Licensee Type" drop down menu.
- 3. Type the licensee name into the "Licensee" field. This will auto generate matches that can be selected from a drop down menu.
- 4. Select the login location for the record to be added.
- 5. Select the program from the drop down menu. The "Selected Characteristics" field will autopopulate based off of this selection.
- 6. Click "Add."
- 7. Click "Download Template."
- 8. Enter the data and save the template. See "Adding Multiple Records" for general notes about using the mass upload template.
- 9. Click "Choose File" to locate your completed .xlsx template or .txt tab delimited file and then click "Upload Directory Data."



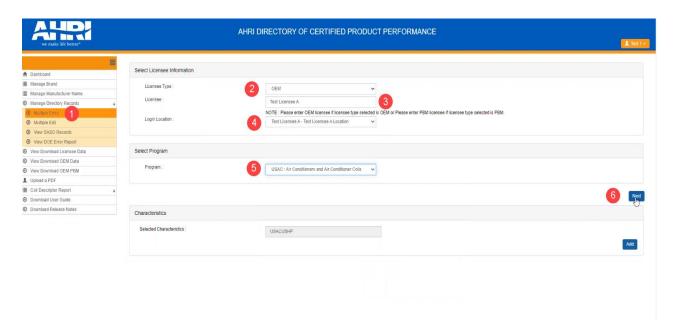


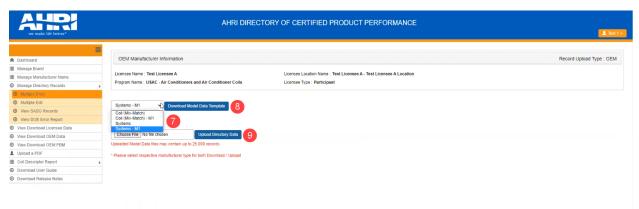
Adding Multiple OEM or PBM Records

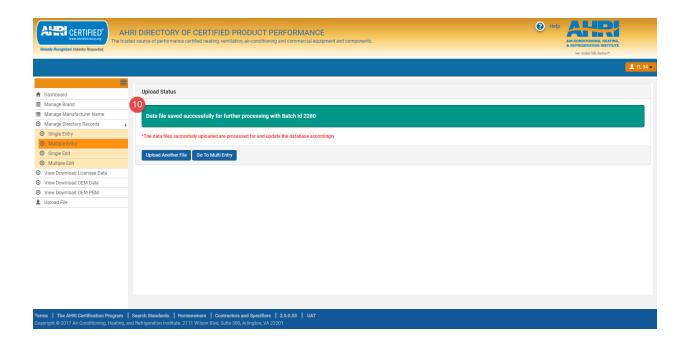
The mass upload template can be used to add one up to several thousand records to the Directory.

- 1. Select "Multiple Entry" from the "Manage Directory Records" drop down on the left-hand menu.
- 2. Select OEM or PBM from the "Licensee Type" drop down menu.
- 3. Type the licensee name into the "Licensee" field. This will auto generate matches that can be selected a drop down menu.
- 4. Select the login location for the record to be added.

- 5. Select the program from the drop down menu.
- 6. Click "Next."
- From drop down template selection: If adding data for M rating (AHRI 210/240-2017) select M
 Template for Coil (Mix-Match) or Systems. If adding data for M1 rating (AHRI 210/240-2023)
 select the M1 Template for Coil (Mix-Match) or Systems.
- 8. Click "Download Model DataTemplate." See "Adding Multiple Records" for general notes about using the mass upload template. Enter the data and save the template. If the records being added are for a PBM the option of which OEM record to associate them with is within the template.
- 9. Click "Choose File" to locate your completed .xlsx template or .txt tab delimited file and then click "Upload Directory Data."
- 10. A confirmation message including the batch ID will appear if the file has been accepted for processing. The final status of the upload can be viewed on the "Multiple Upload Status" section on the dashboard.







Editing Records

General Notes about Editing Records

When a participant record is locked, the only editable field is "Model Status."

Editing Multiple Records

It is important to observe the following when using the "Multiple Edit" function:

- When editing existing records, the system can only accept data inserted into the .xlsx templates
 downloaded from the system. Do not change the template format. Although it is possible to copy
 data into the template from another source, the uploaded template must remain in the .xlsx
 format.
- The .xlsx templates do not appear to start at Column A. This is intentional. There are hidden columns embedded within the template which assist in the upload process. Do no unhide, edit, or erase these hidden columns. If setting up a .txt tab delimited file, it is unnecessary for you to incorporate these hidden columns in your file.
- Do not add extra columns, rearrange, or delete columns to the .xlsx template or your .txt tab delimited file.
- If editing a file that contains a column for validation errors, do not delete the column. The system will ignore this column when the file is processed.
- Do not add data beyond the last column.
- Do not add, edit, or delete data contained in the "Data" and "Brands" tabs of the file.
- For fields able to accept more than one value, separate multiple values with a semi-colon.
- Some fields contain basic validations within the cells, such as format or range validations, and will force the user to enter valid data. However, these validations are bypassed if a value is pasted

into the cell. Another comprehensive validation check will occur when the file is uploaded to the system.

- Before saving and uploading the template to the system do not erase the header rows containing field names and content expectations.
- Save the upload file to the local computer or network. The renaming of your template will be dependent if you are loading model data edits or downgrading model status.
 - For model data edits when naming the file do not change anything before "Template." This ensures the program, licensee type and product type are retained and our system recognizes which validations to apply against the template.
 - Example: The template may download with the name HPPH OEM Template. When renaming the file after data has been added/revised, do not remove HPPH OEM from the beginning of the file name. The user is allowed to add aditional characters after HPPH OEM (i.e. HPPH OEM AA 82217).
 - For model status downgrades the value before "_Template" can be changed, but only to "ModelStatusDowngrade." If the values need to be adjusted after the first portion of the file name, they can be.
 - Example: The template may download with the name HPPH OEM Template. When renaming the file after the model statuses have been edited it could be changed to "ModelStatusDowngrade ED 092718."

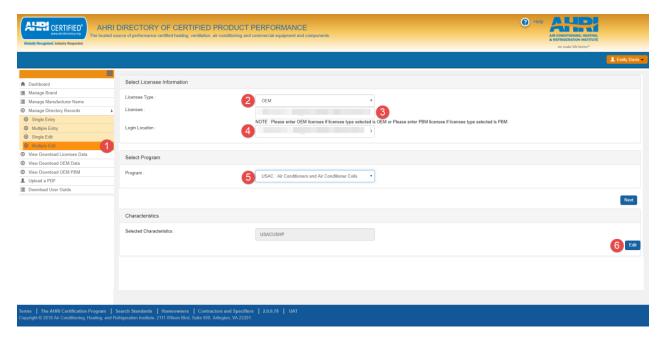
Editing Multiple Characteristic Records

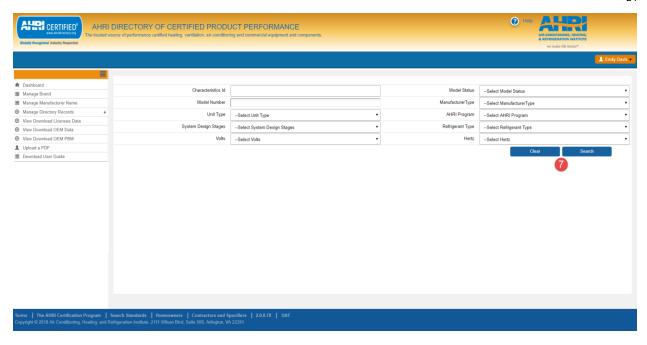
This is only applicable to programs dependent on characteristics records (i.e. USAC, VSMSAC, USHP, VSMHP, VRF, ERV). At least one active characteristic records must exist in the database before a Licensee can create a new OEM certified product record.

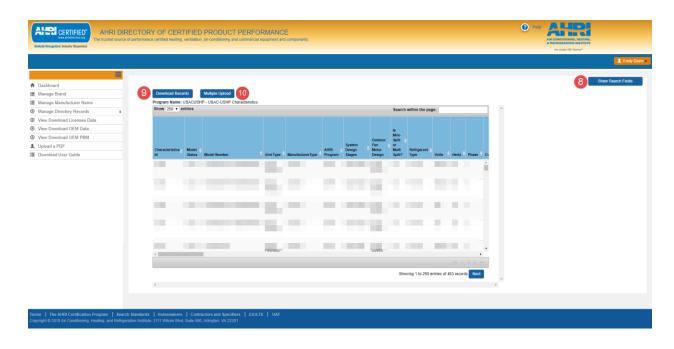
The mass upload template can be used to add one up to several thousand characteristics to the Directory.

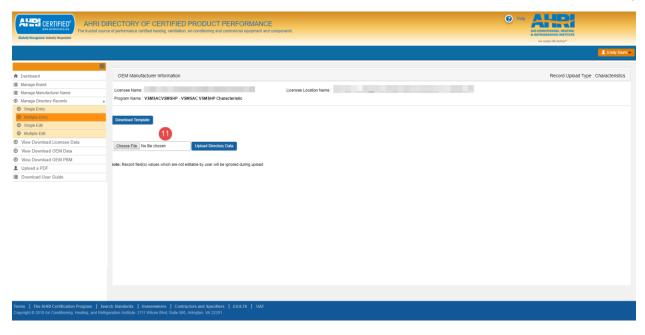
- 1. Select "Multiple Edit" from the "Manage Directory Records" drop down on the left-hand menu.
- 2. Select OEM from the "Licensee Type" drop down menu.
- 3. Type the licensee name into the "Licensee" field. This will auto generate matches that can be selected from a drop down menu.
- 4. Select the login location for the record to be added.
- 5. Select the program from the drop down menu. The "Selected Characteristics" field will autopopulate based off of this selection.
- 6. Click "Edit."
- 7. Enter as much, or as little information, on the screen to pull characteristics records and click "Search." Clicking "Clear" will remove any values input in the fields.
 - a. If no filters are designated, all records for the selected licensee/program/login location will appear.
 - b. Use the "Test Locked" = No and "Locked Under EPA Process" = No filters to avoid having non-editable records appear on your screen and subsequent template. The "Locked Under EPA Process" field is only applicable to programs containing records reported to Energy Star.

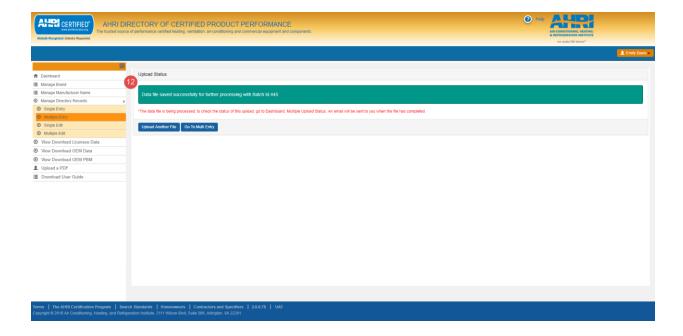
- 8. From this screen all of the records matching the specified search criteria will be displayed. To further refine, or alter, the search criteria click "Show Search Fields" and make any necessary adjustments.
- 9. To save the records click "Download Records." This will download in the mass upload template for the program. Make any necessary updates to the record and ensure the file is saved. For general notes on using the mass upload template refer to "Editing Multiple Records."
- 10. Click "Multiple Upload" to load the edited file.
 - a. If this process needs to be broken out by multiple users or multiple sessions the edited template can be loaded at a later time, but must be loaded through the "Multiple Edit" function. Do not attempt to load an edit template through the "Multiple Entry" function.
- 11. Click "Choose File" to locate your edited .xlsx template and then click "Upload Directory Data."
- 12. A confirmation message including the batch ID will appear if the file has been accepted for processing. The final status of the upload can be viewed on the "Multiple Upload Status" section on the dashboard.







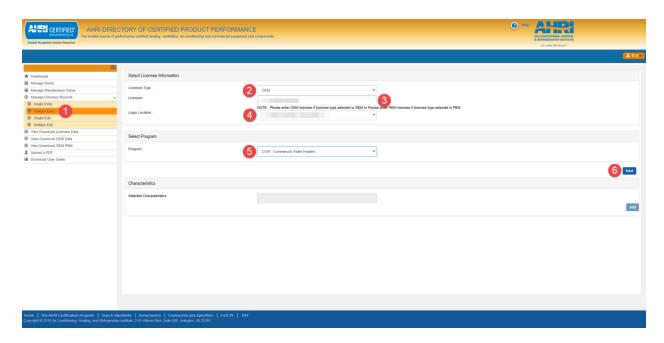


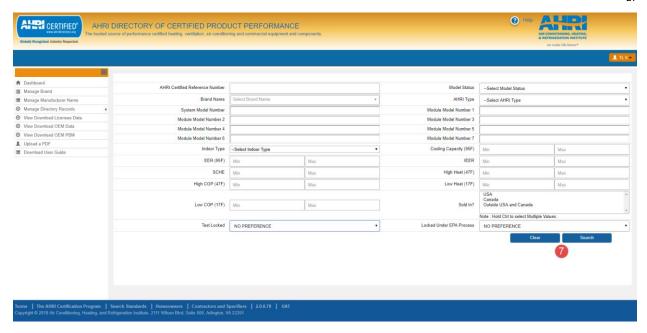


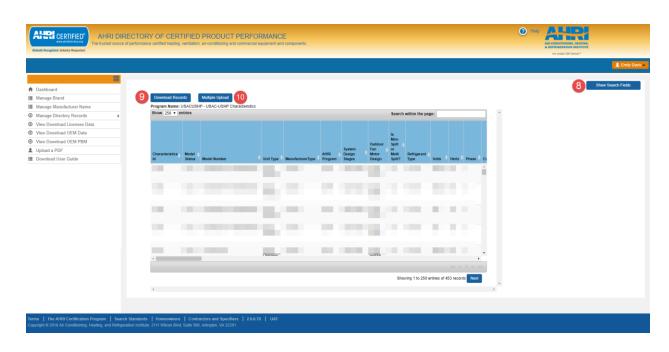
Editing Multiple OEM or PBM Records

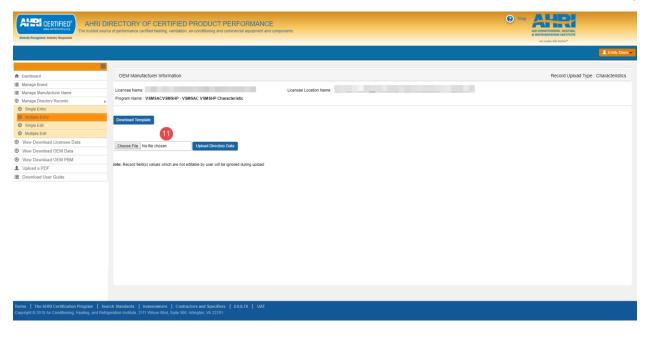
- 1. Select "Multiple Edit" from the "Manage Directory Records" drop down on the left-hand menu.
- 2. Select OEM or PBM from the "Licensee Type" drop down menu.
- 3. Type the licensee name into the "Licensee" field. This will auto generate matches that can be selected from a drop down menu.
- 4. Select the login location for the record to be added.
- 5. Select the program from the drop down menu.
- 6. Click "Edit."

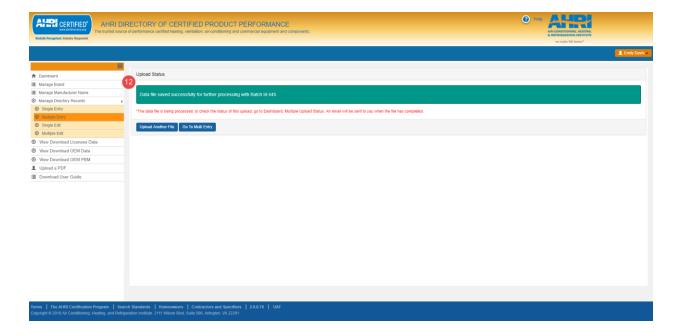
- 7. Enter as much, or as little information, on the screen to pull records and click "Search." To pull all records in the program, leave the fields blank and click "Search." Clicking "Clear" will remove any values input in the fields.
 - a. If no filters are designated, all records for the selected licensee/program/login location will appear.
 - b. Use the "Test Locked" = No and "Locked Under EPA Process" = No filters to avoid having non-editable records appear on your screen and subsequent template. The "Locked Under EPA Process" field is only applicable to programs containing records reported to **ENERGY STAR.**
- 8. From this screen all of the records matching the specified search criteria will be displayed. To further refine, or alter, the search criteria click "Show Search Fields" and make any necessary adjustments.
- 9. To save the records click "Download Records." This will download in the mass upload template for the program. Make any necessary updates to the record and ensure the file is saved. For general notes on using the mass upload template refer to "Editing Multiple Records."
 - a. If the mass upload template contains records that won't be edited delete those rows from the template.
- 11. Click "Multiple Upload" to load the edited file.
 - a. If this process needs to be broken out by multiple users or multiple sessions the edited template can be loaded at a later time, but must be loaded through the "Multiple Edit" function. Do not attempt to load an edit template through the "Multiple Entry" function.
- 10. Click "Choose File" to locate your edited .xlsx template and then click "Upload Directory Data."
- 11. A confirmation message including the batch ID will appear if the file has been accepted for processing. The final status of the upload can be viewed on the "Multiple Upload Status" section on the dashboard.









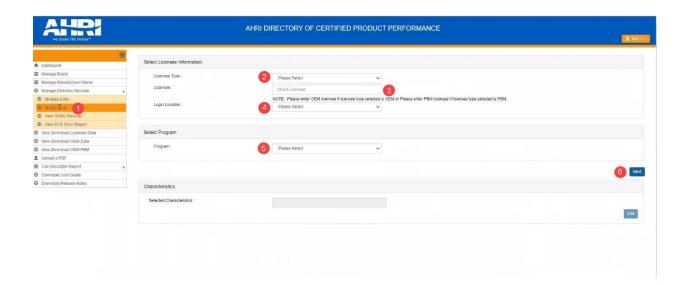


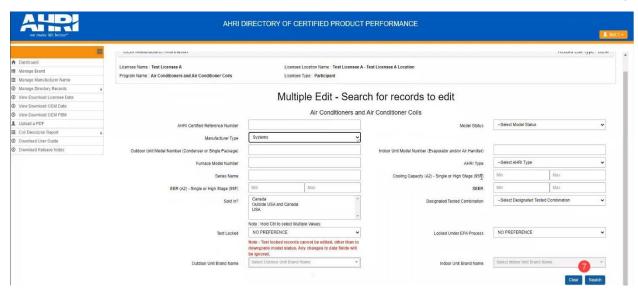
Editing Multiple OEM and PBM Model Statuses

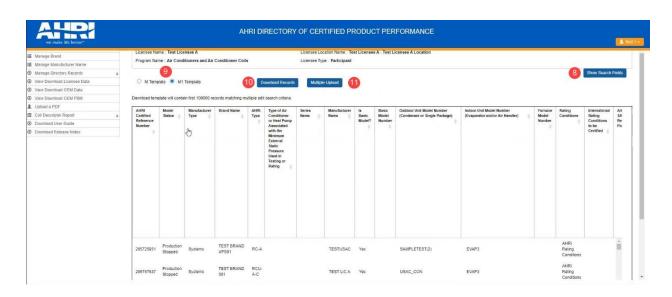
OEM and PBM model statuses can be downgraded from active to production stopped and production stopped to discontinued without the system needing to run validations on the actual model data and performance ratings <u>only by using the 'Status Downgrade Template'</u>. The "Multiple Edit" function allows the system to bypass model data validation to downgrade the model <u>status using that template</u>. If <u>using the Multiple Edit template</u>, records must meet current validation rules. Models cannot be directly downgraded from active to discontinued.

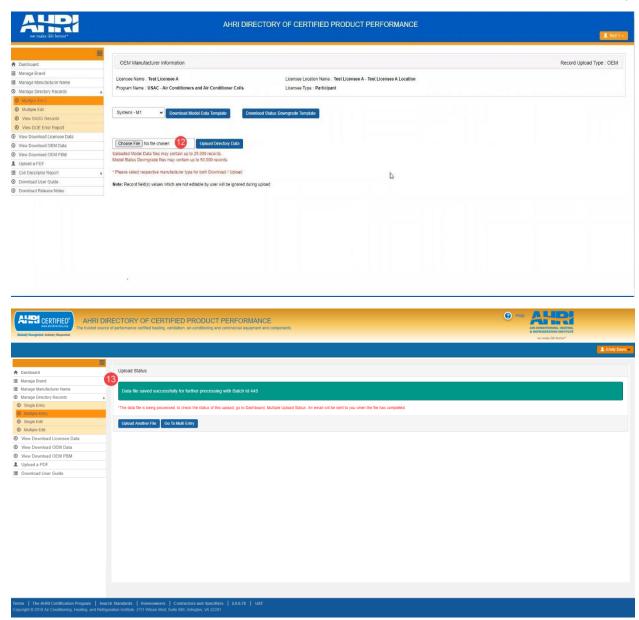
- 1. Select "Multiple Edit" from the "Manage Directory Records" drop down on the left-hand menu.
- 2. Select OEM or PBM from the "Licensee Type" drop down menu.
- 3. Type the licensee name into the "Licensee" field. This will auto generate matches that can be selected from a drop down menu.
- 4. Select the login location for the record to be added.
- 5. Select the program from the drop down menu.
- 6. Click "Next." If you have a list of reference numbers that you want to update please see the steps below. If you need to pull a grouping of models based off certain criteria, proceed to the next step.
 - a. There is no need to define search criteria if a list of reference numbers is already on hand, click "Search" then scroll up if necessary to click "Multiple Upload" in order to get to the screen with the download template.
 - b. Click "Download Status Downgrade Template" to download the template, populate the reference numbers and choose the appropriate model statuses to downgrade. If production stopped models are moving to discontinued ensure that the discontinued reason is populated in the template. When saving the file do not edit the file name before " template."
 - c. Reference the details under step seven to understand the constraints for updating model statuses.
 - d. Proceed to step 11.
- 7. Enter as much, or as little information, on the screen to pull records and click "Search." Clicking "Clear" will remove any values input in the fields. Please note the below details on constraints for updating model statuses.
 - a. If no filters are designated, all records for the selected licensee/program/login location will appear. This is not ideal for downgrading model statuses, as some scenarios will prevent a model from being able to be downgraded.
 - i. Use the "Locked Under EPA Process" = No to filter out models that are currently undergoing ENERGY STAR approval. This field is only applicable to programs containing records reported to ENERGY STAR.
 - b. Even if the model is under test lock the model status can be downgraded.
 - c. PBMs will automatically inherit the OEM's model status, there is no need to include these in the template. The system has been setup to identify the associations and update the models accordingly. However, an OEM will not inherit the model status of a PBM.
 - d. If a basic model is being discontinued then all of the models associated with that model need to be associated with another basic model prior to the discontinuation. If this is not done the system will fail the model status downgrade and provide an error message providing directions to update other models.
- 8. From this screen all of the records matching the specified search criteria will be displayed. To further refine, or alter, the search criteria click "Show Search Fields" and make any necessary adjustments.
- 9. To edit existing data for M rating (AHRI 210/240-2017) select M Template radio button. To edit data that has already been added in M1(AHRI 210/240-2023) or if you want to add ratings to existing (M) records that don't have M1 ratings, select the M1 Template radio button.

- 10. To save the records click "Download Records." This will download in the mass upload template for the program. Make any necessary updates to the records and ensure the file is renamed to "ModelStatusDowngrade_<user choosen value>." If production stopped models are moving to discontinued ensure that the discontinued reason is populated in the template. For general notes on using the mass upload template refer to "Editing Multiple Records."
 - a. If the mass upload template contains records that won't be edited delete those rows from the template.
- 11. Click "Multiple Upload" to load the edited file.
 - b. If this process needs to be broken out by multiple users or multiple sessions the edited template can be loaded at a later time, but must be loaded through the "Multiple Edit" function. Do not attempt to load an edit template through the "Multiple Entry" function.
- 12. Click "Choose File" to locate your edited .xlsx template and then click "Upload Directory Data."
- 13. A confirmation message including the batch ID will appear if the file has been accepted for processing. The final status of the upload can be viewed on the "Multiple Upload Status" section on the dashboard.









Other Features for Licensee Users

Licensee users may:

- <u>DOE Errors</u>: to see models that errored in DOE process and needs manufacturer action to correct
- Upload PDF files to AHRI: for DOE submissions, private test reports and any other files needed
- Submit records to Energy Star (if applicable)
- <u>View data as an authenticated user:</u> view and download licensee data, OEM and OEM/PBM data
- View and download coil descriptor reports (for USAC and USHP programs only)

DOE Errors

- 1. A licensee may see what models have failed the DOE process through the "View DOE Error Report" function.- Only one program can be downloaded at a time. If there are errors in multiple programs, then each step must be repeated for each program. Select "View DOE Error Report" from the left-hand menu
- 2. Select a program from the drop down menu
- 3. Select the licensee from the drop down menu.
- 4. Select the login location from the drop down menu. (for multiple login locations, press and hold CRTL key and click on the individual login locations)
- 5. Click on "Export" button.



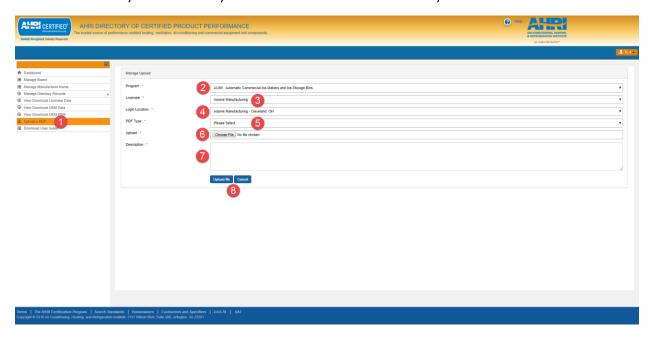
Uploading PDF Files to AHRI

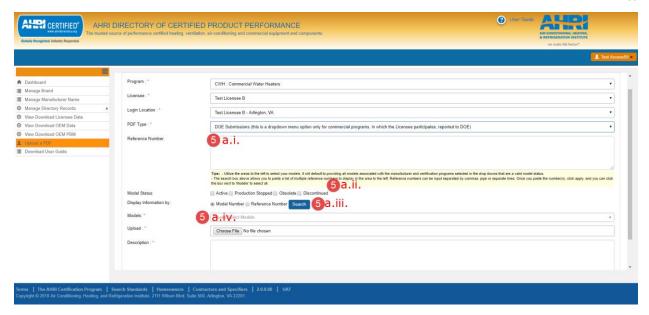
A licensee may upload supplemental PDFs for DOE and private test reports for qualification/new BMG/model approval through the "Upload a PDF" function. Only a single PDF file can be uploaded at a time. If multiple PDFs need to be associated with a particular record, then each step has to be repeated for each PDF.

Uploaded files can be viewed in the "Files Uploaded to AHRI" function on the main dashboard. The view of files uploaded is specific to the licensee user and will not show files uploaded by other licensee users.

- 1. Select "Upload a PDF" from the left-hand menu.
- 2. Select a program from the drop down menu.
- 3. Select the licensee from the drop down menu.
- 4. Select the login location from the drop down menu.
- 5. Select the type of PDF from the drop down menu:
 - a. DOE submissions: This is for federally regulated programs that require a supplemental pdf as required by Subpart B of 10 CFR Part 429. If necessary to run a valid test, the equipment-specific supplemental information must include any additional testing and testing set up instructions (e.g., specific operational or control codes or settings) which would be necessary to operate the basic model under the required conditions specified by the relevant test procedure. Upon selecting this type, additional fields will appear where associated models can be indicated by various input or through search. The system is designed to pull all models of the associated program, licensee and login location. Results can be refined further by reference number and model status.
 - i. Reference number: This field is where the AHRI reference number/s can be entered for the models that need to be associated with the PDFs. For inputting multiple reference numbers use a comma, pipe lines or enter the reference numbers in separate lines. This is a required field for a successful search.

- ii. Model status: This field is where models can be searched for by their model status. One, some or all available statuses can be selected. This is not a required field for a successful search, but will provide more specific results.
- iii. Display information by: This selection determines if search results are shown by either model number or reference number. After the selection is chosen, click "Search."
- iv. Models: After the search has been initiated this field will show as a drop down, once clicked in, with the option to select models to associate with the uploaded PDF.
- b. Other
- c. Private test reports for qualification/new BMG/model approval
- 6. Click "Choose File" to search your computer for the desired PDF. Ensure the file size is less than 15 MB.
- 7. Add a description of the uploaded PDF.
- 8. Click "Upload File." The screen will show a message of "File uploaded successfully" if the file successfully saved to the system. The file can now be viewed by AHRI.





Submitting Records to Energy Star

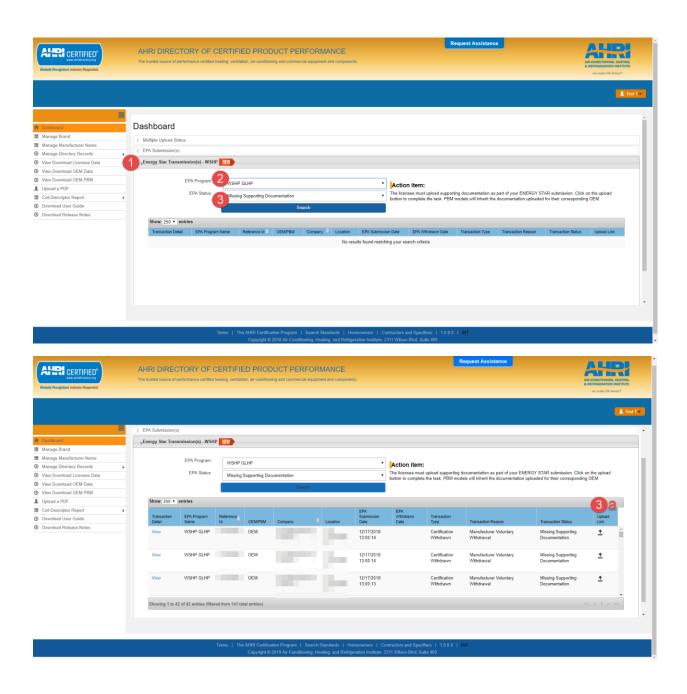
Process for Submitting Records to ENERGY STAR: ACIM, CBLR, DGX, RBLR, RFRN, RWH, ULE, VRF and WSHP

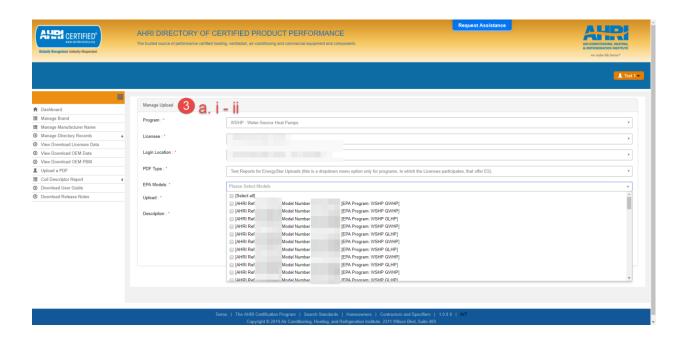
Records that are created and successfully uploaded with "Submit to Energy Star" = Yes will still require further actions to proceed through the submittal process. If AHRI finds any issues with the records, or their associated test report/s, they will be rejected and a notification will be sent outside of the Directory. After the necessary adjustments have been made the submission process will need to be followed starting from the beginning.

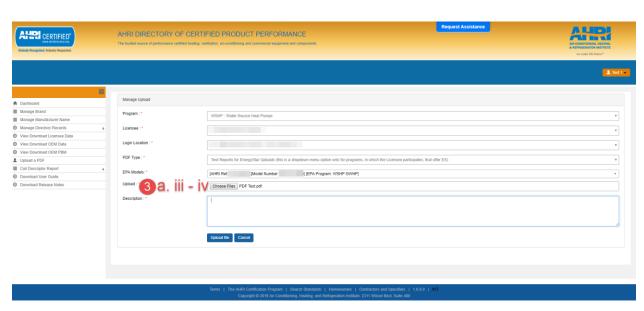
Please note the below steps are directly related to submission of newly certified ENERGY STAR models. Any modifications or withdrawals will automatically proceed through the process without any further need from the manufacturer.

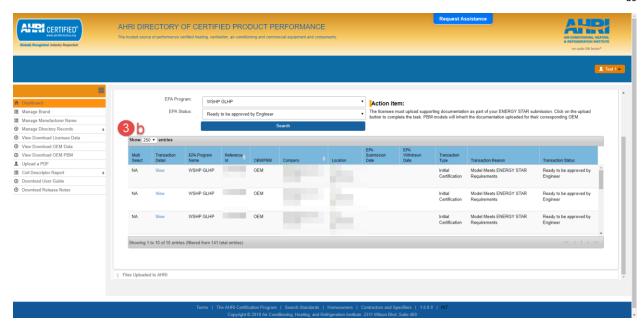
- 1. After successfully creating or editing the record/s to submit to Energy Star, proceed to the "Energy Star Transmissions(s)" function on the dashboard.
- 2. Select the applicable program from the "EPA Program" drop down list. Please note that WSHP is broken out by application points.
- 3. Select the applicable status from the "EPA Status" drop down list and click search to initiate the query, it will not be an automatic pull. Please note that a description of each status is included under the "Action item" section on the page, but details are included below as well.
 - a. Missing Supporting Documentation: Supporting documentation must be uploaded as part of a new ENERGY STAR submission. Click on the upload button to complete the task. PBM models will inherit the documentation uploaded for their corresponding OEM model. Models that have been rejected due to documentation will also fall back into this queue.
 - When "Upload Link" is clicked the next screen will auto-populate the program, licensee, login location and PDF type based on the current credentials for the logged in user.
 - ii. There is an option to associate the PDF with just a single model or multiple models. Select all applicable models for the PDF in the "EPA Models" drop down. Please note that for WSHP there will be two separate entries (each with the same AHRI reference number) to associate a PDF, one for each application point.
 - iii. Click "Choose Files" to select a file to upload. Multiple Excel spreadsheets and PDFs can be uploaded but please combine into one file if possible. Ensure the combined file size is less than 10 MB. If an incorrect file is selected click "Choose Files" again and select the correct file and this will remove what was previously selected to upload.
 - iv. Populate the "Description" information and then click "Upload File" to complete the upload of the PDF. There will be an on screen message confirming the file upload was successful. If an incorrect file is uploaded it can be replaced by repeating the upload process.
 - b. Ready to be approved by the Engineer: This indicates models have their necessary supporting documentation and are pending an AHRI engineer's review and approval. Further details on the records, including access to the PDF submitted with the model, is available through the "View" link under the "Transaction Detail" column.

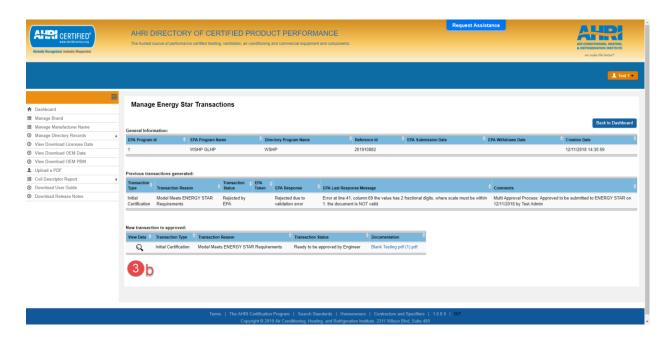
- c. Rejected by Engineer: The submission has been rejected by the AHRI engineer. Further details on the rejection can be viewed in the "View" link associated with the submission, as well as through communications outside of the Directory with the AHRI engineer.
- d. Pending to be reported to EPA: The submission has been approved by the AHRI engineer and is pending submission to EPA. An update as to whether the submission passed EPA validations will be available within 24 hours.
- e. Rejected by EPA: The submission has been rejected by EPA. Further details on the rejection can be viewed in the "View" link associated with the submission.
- f. Approved by EPA: The submission has been approved by EPA and will be published on the ENERGY STAR site within 24 48 hours.

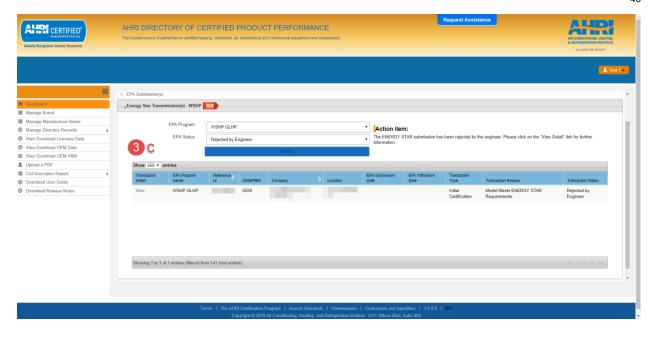


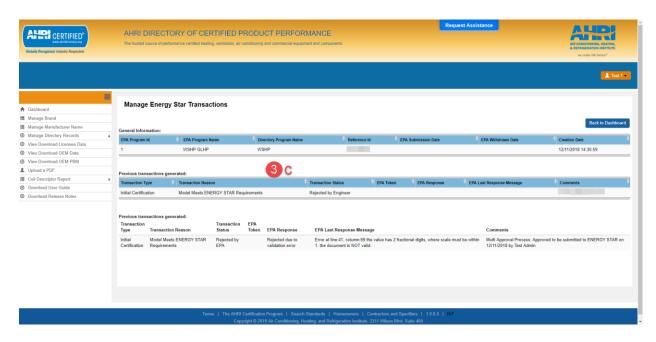


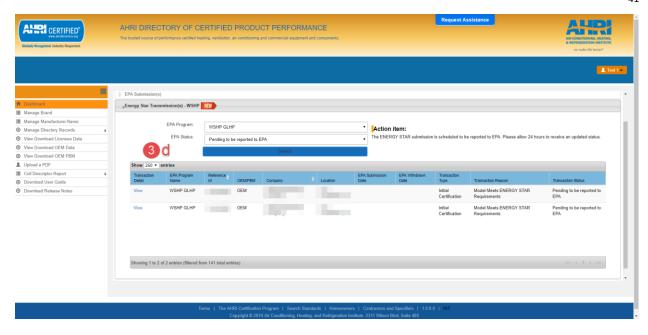


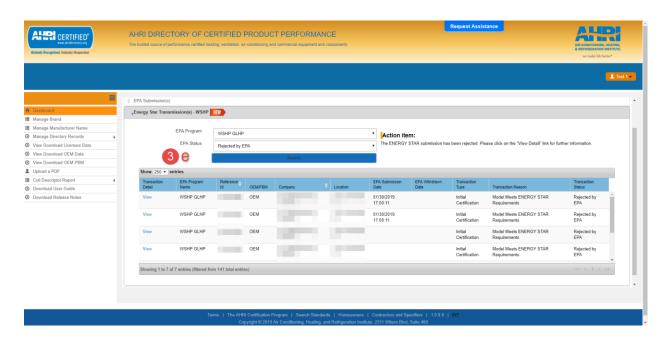


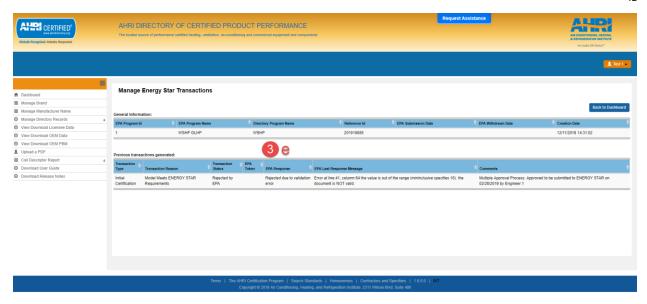


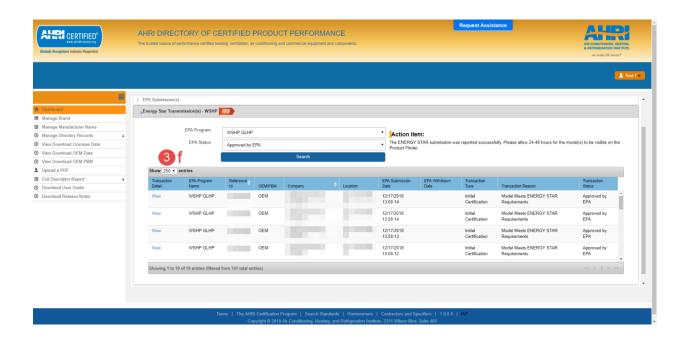










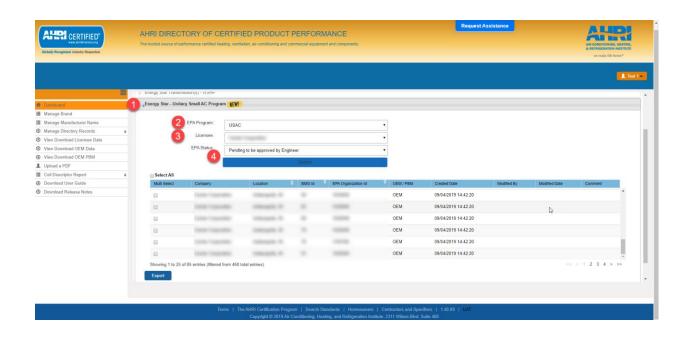


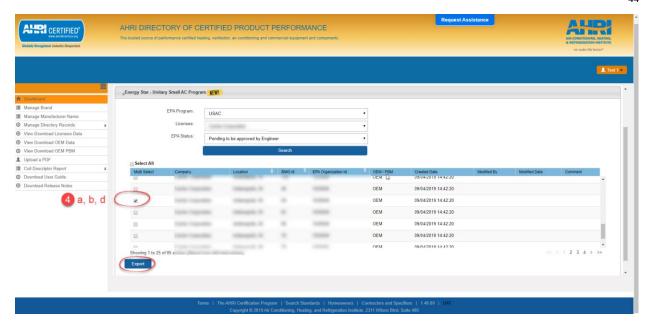
Process for Submitting Records to ENERGY STAR: USAC, USHP, VSMSAC and VSMSHP

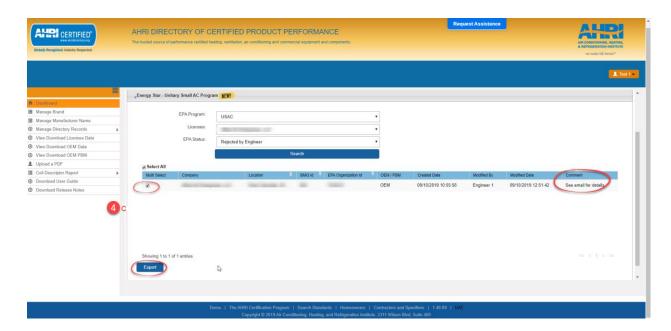
Records that are created and successfully uploaded with "Submit to Energy Star" = Yes will still require further actions to proceed through the submittal process. If AHRI finds any issues with the records they will be rejected and a notification will be sent outside of the Directory. After the necessary adjustments have been made the submission process will need to be followed starting from the beginning.

Please note the below steps are directly related to submission of newly certified ENERGY STAR models. Any modifications or withdrawals will automatically proceed through the process without any further need from the manufacturer.

- 1. After successfully creating or editing the record/s to submit to Energy Star, proceed to the "Energy Star Unitary Small Programs" function on the dashboard.
- 2. Select the applicable program from the "EPA Program" drop down list.
- 3. Select the applicable licensee from the "Licensee" drop down list.
- 4. Select the applicable status from the "EPA Status" drop down list and click search to initiate the query, it will not be an automatic pull.
 - a. Pending to be approved by the Engineer: This indicates models meet the current ENERGY STAR specifications and are pending an AHRI engineer's review and approval. Further details on the records in this batch are available by clicking the select box and then clicking the "Export" button.
 - b. Approved by Engineer: The submission was approved by the AHRI engineer and is marked on the CEE page as ENERGY STAR labeled. Further details on the records in this batch are available by clicking the select box and then clicking the "Export" button.
 - c. Rejected by Engineer: The submission has been rejected by the AHRI engineer. Further details on the rejection can be viewed in the "Comments" section of the dashboard, as well as through communications outside of the Directory with the AHRI engineer. As with the other status functions, further details on the records in this batch are available by clicking the select box and then clicking the "Export" button.
 - d. Withdrawn from EPA: The models previously labeled as ENERGY STAR are no longer labeled as such. This applies to models that have been edited as Submit to Energy Star = No or whose ratings have been edited or rerated to below the ENERGY STAR minimums. Further details on the records in this batch are available by clicking the select box and then clicking the "Export" button.



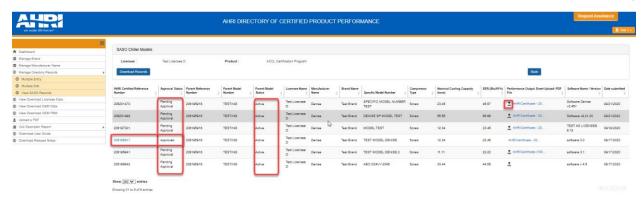




Submitting Records to SASO (ACCL/WCCL only)

Products from the Chiller family (ACCL, WCCL) which are imported into Saudi Arabia require a special approval process in order to obtain the AHRI Certificate of Product Ratings. Specific build ratings, in addition to a software output sheet, must be reviewed by AHRI staff prior to providing approval. You will be notified of the status of your submission by both an automated nightly email and a feature nested under "Manage Directory Records" called "View SASO Records"; the latter is also where you can download the Certificate for approved models which are still in "Active" or "Production Stopped" status. Please follow the steps below:

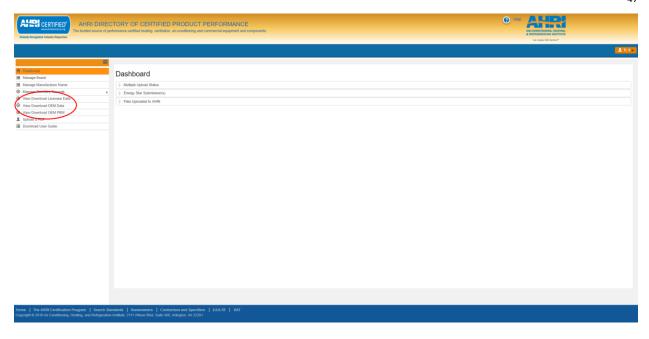
- 1. Using the "Multiple Entry" feature for submitting records, select "SASO" program and download the model data template to populate with your SASO-specific model information
 - a. Note: "Parent model" is the ACCL or WCCL model upon which this record is based
- 2. Confirm the record was processed successfully by checking the "Multiple Upload" feature on your Dashboard
- 3. Once record entry is successful, Open the "Manage Directory Records" tab to find "View SASO Records" and select this option
- 4. Enter the Licensee for this model and select either ACCL or WCCL as appropriate
- 5. On the next screen you will see a table of all SASO records which meet the above criteria, and the most recent entry should be at the top
- 6. On the given row, select the Upload File Icon to attach your software output sheet as a PDF
 - a. Note all other fields besides the file selection are populated based on the values in the SASO record you submitted; the Description field is optional
- 7. After you've attached the file, you will return to the View SASO Records table and see that the file was attached
 - a. Note you may upload a different file until the SASO record has been approved by AHRI by repeating step 6 (above)
- 8. This record is now in "Pending Approval" status and will be in AHRI's queue for review
 - a. If AHRI approves the record, the status will change to "Approved" and you may now download your Certificate by clicking the AHRI Reference Number which will now be a blue link in the "View SASO Records" table
 - b. If AHRI rejects the record, you will also get comments from the AHRI Engineer as to what specifically is the problem that needs to be rectified
- 9. If you need to make edits to the SASO submission, you may do so using the "Multiple Edit" feature under Manage Directory records
 - a. Note records are editable until they are approved by AHRI, and then they are locked
- 10. You will receive a daily email indicating the change of status of your SASO submissions and any comments input by AHRI



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Viewing Data as an Authenticated User

The Directory offers multiple functions to allow licensees and AHRI staff users, based on their program permissions, to create customized views of licensee data. These features give the user access to more fields than those shown on the public directory. The features are accessed from the menu on the left-hand side of the screen.

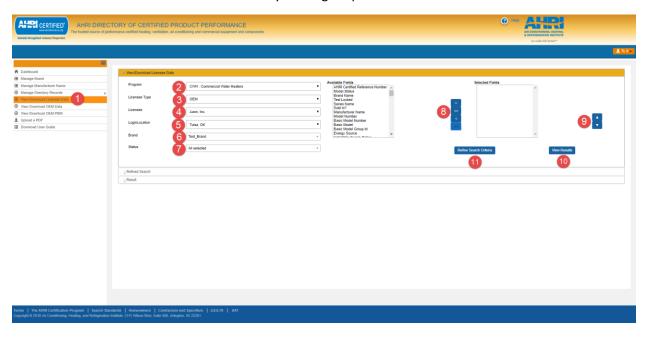


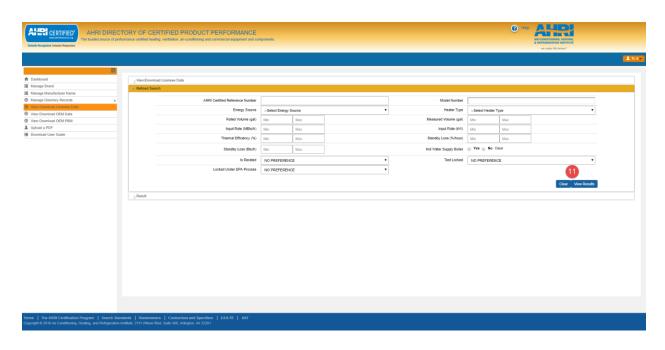
View and Download Licensee Data

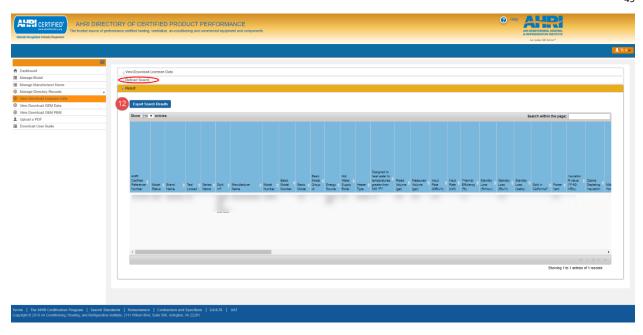
The "View Download Licensee Data" feature allows a user to view and download records stored in the database based on the program, licensee type (OEM or PBM), licensee, login location, brand(s) and model status(es) selected by the user. This feature allows the user to query one licensee's records at a time, specific to login location.

- 1. Select "View Download Licensee Data" in the left-hand menu.
- 2. Select the program from the drop down menu.
- 3. Select the licensee type from the drop down menu.
- 4. Select the licensee from the drop down menu.
- 5. Select the login location from the drop down menu.
- 6. Select one, some or all brand(s) from the drop down menu.
- 7. Select one, some or all model status(es) from the drop down menu.
- 8. In the "Available Fields" select as many, or as few, data points to search on.
 - a. A single data point can be moved to "Selected Fields" by selecting it and clicking the single right arrow.
 - b. Multiple data points can be moved to "Selected Fields" by using CTRL while selecting the points and then clicking the single right arrow.
 - c. All data points can be moved to "Searchable Fields" by clicking the double right arrow.
- 9. The data points in "Selected Fields" can be rearranged by using the up and down buttons to the right.
 - a. A single data point can be removed from "Selected Fields" by selecting it and clicking the single left arrow.
 - b. Multiple data points can be removed from "Selected Fields" by using CTRL while selecting the points and then clicking the single left arrow.
 - c. All data points can be removed from "Searchable Fields" by clicking the double left arrow.
- 10. To run the search without further refining the search criteria click "View Results."

- 11. To further refine the search criteria, click "Refine Search Criteria". From that screen, range specifications can be defined along with other model details. To initiate the search click "View Results" or to clear the field values click "Clear."
 - a. This function can also be accessed after the initial search by clicking on the "Refined Search" tab.
- 12. Search results can be downloaded by clicking "Export Search Results."





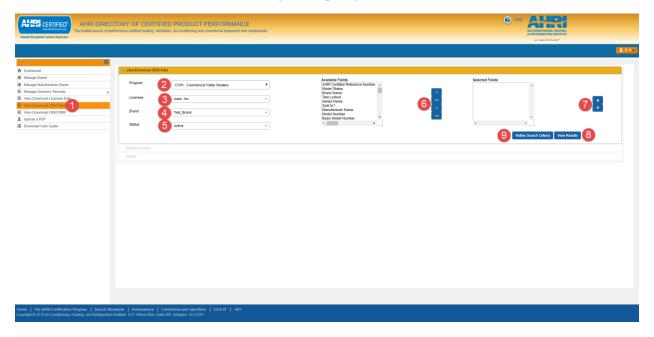


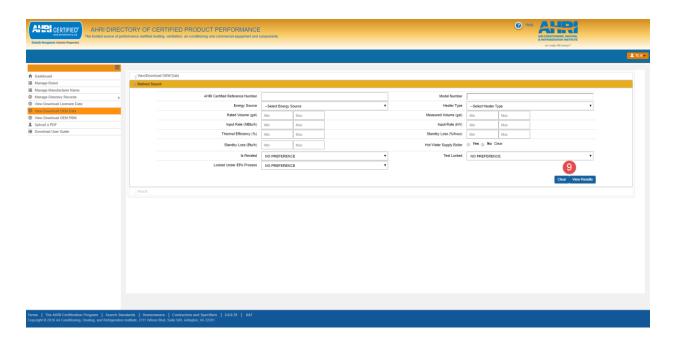
View and Download OEM Data

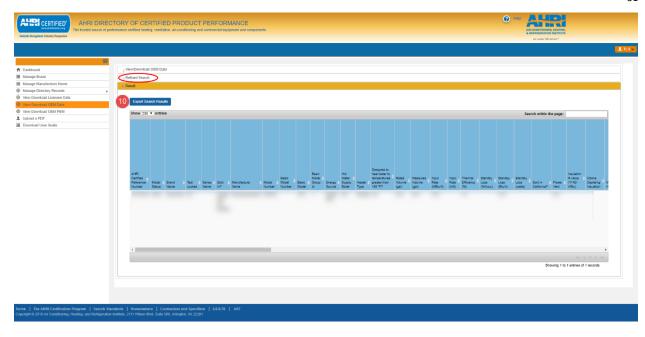
The "View Download OEM Data" feature allows a user to view and download OEM records stored in the database based on the program, licensee(s), brand(s) and model status(es) selected by the user. This feature allows the user to query one, some, or all OEM licensees (based on permissions) and does not base the results on login location. This will be helpful to licensees who are examining their BMGs and to AHRI staff making test selections.

- 1. Select "View Download OEM Data" in the left-hand menu.
- 2. Select the program from the drop down menu.
- 3. Select one, some or all licensee(s).
- 4. Select one, some or all brand(s).
- 5. Select one, some or all model status(es).
- 6. In the "Available Fields" select as many, or as few, data points to search on.
 - a. A single data point can be moved to "Selected Fields" by selecting it and clicking the single right arrow.
 - b. Multiple data points can be moved to "Selected Fields" by using CTRL while selecting the points and then clicking the single right arrow.
 - c. All data points can be moved to "Searchable Fields" by clicking the double right arrow.
- 7. The data points in "Selected Fields" can be rearranged by using the up and down buttons to the right.
 - a. A single data point can be removed from "Selected Fields" by selecting it and clicking the single left arrow.
 - b. Multiple data points can be removed from "Selected Fields" by using CTRL while selecting the points and then clicking the single left arrow.
 - c. All data points can be removed from "Searchable Fields" by clicking the double left arrow.
- 8. To run the search without further refining the search criteria click "View Results."

- 9. To further refine the search criteria, click "Refine Search Criteria". From that screen, range specifications can be defined along with other model details. To initiate the search click "View Results" or to clear the field values click "Clear."
 - a. This function can also be accessed after the initial search by clicking on the "Refined Search" tab.
 - b. Be aware that selecting a brand name on this screen may override the multiple brand names selected on the previous screen. For USAC or USHP ICM licensees, the "Outdoor Unit Brand Name" filter may be helpful.
- 10. Search results can be downloaded by clicking "Export Search Results."







View and Download OEM PBM Data

The "View Download OEM PBM" feature allows a user to view and download the correlation between OEM and PBM records, or vice versa, based on the selected program, model status(es), type of licensee and licensee.

Viewing PBM Records Related to an OEM Licensee

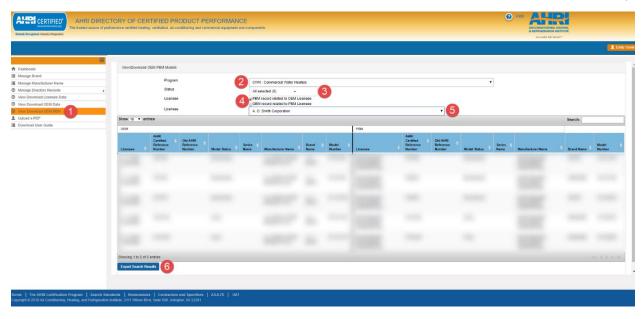
This function will show all the selected OEM licensee's records with their corresponding PBM records.

- 1. Select "View Download OEM PBM" from the left-hand menu.
- 2. Select the program from the drop down menu.
- 3. Select one, some or all model status(es).
- 4. Select "PBM record related to OEM Licensee."
- 5. Select the OEM licensee from the drop down menu.
- 6. Search results can be downloaded by clicking "Export Search Results."

Viewing OEM Records Related to a PBM Licensee

This function will show all the selected PBM licensee's records with their corresponding OEM records.

- 1. Select "View Download OEM PBM" from the left-hand menu.
- 2. Select the program from the drop down menu.
- 3. Select one, some or all model status(es).
- 4. Select "OEM record related to PBM Licensee."
- 5. Select the PBM licensee from the drop down menu.
- 6. Search results can be downloaded by clicking "Export Search Results."



View and Download Coil Descriptor Reports (for USAC and USHP programs only)

This function is available to licensee's that are associated with USAC and/or USHP programs.

- 1. Select either "USAC" or "USHP" from the "Coil Descriptor Report" drop down in the left-hand menu.
- 2. Select either "Systems" or "Coil (Mix-Match)" from the "Manufacturer Type" drop down.
- 3. Enter as much, or as little, information into the search fields
- 4. Click "Export to Excel."
- 5. An onscreen message will display stating "Depending on your search criteria and Internet connection speed, this report may take several minutes to generate. The report will generate as a compressed .csv file. If you are using an older version of Excel (2003 or earlier), any records beyond 65,535 rows will be dropped from your downloaded file. If you are using a more recent version of Excel (2007 and beyond) to open the file, any records beyond 1,048,575 rows will be dropped from your downloaded file. In both instances, please consider using a text editor application to open the file to avoid dropping records. Do you want to continue?" Click "Continue" to proceed with the download.



