

EnergyGauge USA Version 7.0.05

RELEASE NOTES

GENERAL NEW FEATURES:

Version 7.0.05 is a minor update with bug fixes to version 7.0.03. It does include some new features:

- Expanded types of ceiling on ceiling screens. Can now choose from:
 - Flat ceiling under attic
 - Sloped ceiling under attic
 - Knee wall to attic
 - Single assembly, no airspace
 - Single assembly, with airspace
 - Under neighbor [only shows for attached dwellings]
 - The Help file (hit F1 when on ceiling type entry) now has illustrations of different ceiling/attic types.
 - The Manual J loads will be slightly different for single assembly types and some prescriptive exceptions will only apply to *Single assembly, no airspace*.
 - **If opening old projects, please review your ceiling entries.** Entries that were *Cathedral/Single Assembly* will default to *Single assembly, no airspace* so if that is not the best description please change it. Under Attic converts to Flat ceiling under attic.
- **ResSizePro licensees now join our ResRateSizePro licensees in having the option of entering the building geometry via a drawing tool, Kwik Model.** Kwik Model also allows for drawing a duct system. Look for emails communicating opportunities for free training from FSEC.
- Added infiltration volume to detailed infiltration section of input summary reports. For some cases, such as with sealed attics tested with hatch open, infiltration volume is different than conditioned house volume. This volume previously only showed on the infiltration screen, not in the report
- For ResSizePro and ResRateSizePro licensees, the ability to create the ENERGY STAR Home National HVAC Design Supplement to Std. 310 for Dwellings & Units Report. Create this report from the System Sizing Summary Reports menu option.
- Reminder of new features from 7.0.03: ResSizePro and ResRateSizePro licenses include the ability to create an ACCA Manual D report if the characteristics of the ductwork are entered. These versions include producing an ANSI / RESNET / ACCA 310 HVAC Design Report that provides the design intent of the system which can later be compared against the installed system.



GENERAL BUG FIXES

- Block area and volume should no longer overlap on input summary reports
- EnergyGauge will error check for a *floor over other space* entry if there is a basement.
- Fixed a Save Current Project As issue where some door and ceiling U values and ceiling R values and areas sometimes were not saved
- Removed old report menu items where they had been replaced with newer reports
- Added error checking to catch erroneous large garage widths and lengths
- Hourly reports for some variables for systems beyond the first system were not showing correctly, some hourly reports now limited to first system
- Polybead aggregate was overlapping other text on input summary report
- Occasionally had errors with doors and windows assigned to rooms not present in reference buildings; that is fixed

ACCA Manual J and S and D

- Adjustment for medium colored shingles with radiant barrier now uses Manual J construction type 16CR instead of 16DR. May alter Manual J results.
- Fixed bug where Manual S fan exp airflow was not being saved
- AHRI number field entry expanded to handle more digits
- Manual J now calculating zero loads for unconditioned spaces
- Modified Manual S Design OEM cooling capacity error checking

FLORIDA ENERGY CODE

- Illegible string was displaying in water heater section of R405 report when New (From Plans) was selected and there was not a water heater entered.
- Additions with no water heater were getting a failure for prescriptive total UA
- If a person entered heating using the multiple heating system method (generally used for more than five heating systems) the R405 report was not displaying the heating type when it was electric resistance
- 6" concrete walls now have correct reference home walls, and will use the entered solar absorptance

IECC

- No specific changes.

TAX CREDIT

- Error check for completed blower door test per DOE for tax credit 001-20.
- Added a “Date home sold or leased to another person” input to accommodate the new 001-2020 Tax Credit requirement

HERS RATERS CHANGES AND HVAC GRADING

- Added HERS Modeler (Prelim) and HERS Modeler (Final) inputs on the Project screen. These inputs are required by RESNET when generating an RGU file for registration. The HERS Modeler (Prelim) refers to the rater or HERS Modeler initially entering the building in the software during the planning phase. HERS Modeler (Final) refers to the rater or HERS Modeler entering the building during the final stage after testing.

The dropdown selections include the names of raters and HERS Modelers from the list of verifiers in preferences. The tester dropdown selections on the Infiltration, Duct and AHU tabs include raters and RFIs from the list of verifiers in preferences. The verifier type in preferences is determined by the ID entered. RFIs have 6 alpha-numeric RFIIN. Raters have a 7 digit RTIN. HERS Modelers have an 8 alpha-numeric HMIN.

- Added Not Tested Choice to Proposed and Confirmed Choices for each HVAC grade parameter –Changed Proposed “Default Grade” choices to *Grade I*, and *Grade III/Not tested*
- No longer get error message for AHU when deleting a heating system
- Basement walls in reference home set to 6” concrete

ENERGY STAR and ZERH

- No specific changes.

ANNUAL SIMULATION:

- No specific changes.