



ENERGY STAR® Most Efficient 2020 HVAC Application

Required information for system status and messaging requirements for CAC/ASHP (both ducted and ductless), Furnace and GHP systems.

Submitted data will be used by the U.S. Environmental Protection Agency (EPA) only for ENERGY STAR Most Efficient reviews and will be closely controlled. If requested under the Freedom of Information Act (FOIA), EPA will argue that the data is exempt. Any information used will be masked by EPA so as to protect the confidentiality of the Partner.

Which models/combinations does this information apply to? Include all that are relevant and provide a separate spreadsheet if necessary. All combinations submitted must be certified to the current relevant ENERGY STAR specification to be considered.

Split CAC/ASHP		Packaged CAC/ASHP	Furnace	GHP
Outdoor Unit	Indoor Unit			

1. Automatic Setup Capabilities

- a. What kind of interface is needed for the automatic setup features (installer app, thermostat communication, internal to the unit)?

- b. What measurements or faults can be identified during installation, and is this completed by the thermostat/controller or the contractor? How are these displayed?

- c. *Ducted models only:* Is the unit/system capable of measuring external static pressure? If so, how is the information made available for use by a technician?

- d. Does the system identify the model numbers and quantity of indoor units connected? If so, describe how this is communicated via the thermostat/controller.

- e. What other capabilities does the unit/system provide to facilitate a high-quality installation?

2. Fault History

- a. How and where is the fault history alphanumerically displayed? What external equipment, if any, is necessary to access the history?

- b. How many recent faults can the service personnel access?

- c. Can the fault history be accessed off-site by the technician, at the discretion of the resident?

Yes
No

3. Maintenance Capabilities

- a. Can the unit directly notify service personnel of required servicing, at the discretion of the resident?

Yes
No

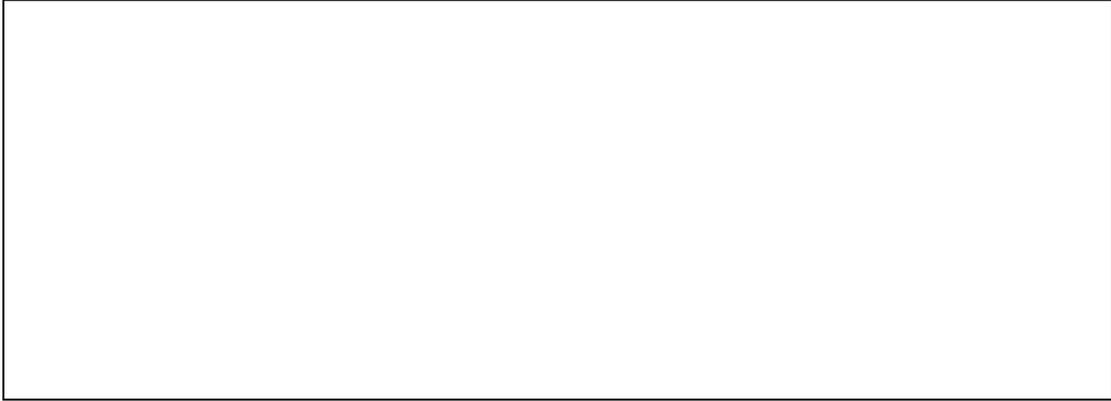
b. How does the unit or controller enable remote assessment or service?

c. What other capabilities does the equipment have to facilitate appropriate maintenance? Are there other notable advanced features specific to system status and messaging that the unit/system provides?

4. Resident Alerts

a. How does the unit/system estimate when to alert residents to check the filter?

- b. Where is the filter alert displayed on the thermostat/controller and how are residents alerted that air filter(s) are in need of checking, cleaning, or changing? Are residents notified through any method other than a thermostat/controller on the wall?
 - i. **Note: This alert must be displayed in plain text and specify action to be taken, i.e. "The filter has operated for 100 hours. Please clean the filter per the instructions in the User Manual."**

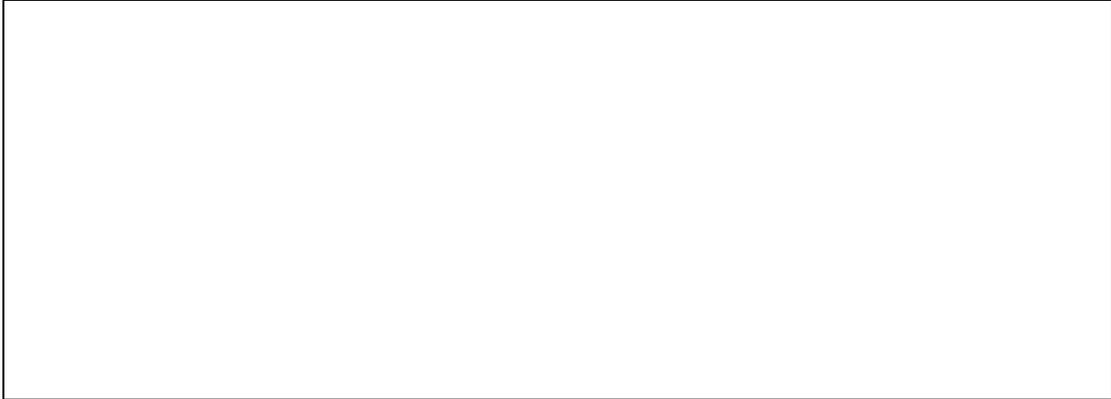


Please provide screenshots of the filter alert as displayed to the consumer in the field below or include as a separate file.



c. How are residents alerted when professional service is needed?

- i. **Note: This alert must be displayed in plain text and specify action to be taken, i.e. "The unit has experienced an error – please contact a service professional for repair."**



Please provide screenshots of the service alert as displayed to the consumer in the field below or include as a separate file.



5. What type of compressor(s) and staging does this equipment have? (Not applicable for furnaces or for water-to-water GHP)

The public reporting and recordkeeping burden for this collection of information is estimated to average 11.4 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.