

**DOCKETED**

<b>Docket Number:</b>	19-BSTD-02
<b>Project Title:</b>	Residential Alternative Calculation Method Variable Capacity Heat Pump Modeling Approach
<b>TN #:</b>	230305
<b>Document Title:</b>	2019 Residential VCHP Software
<b>Description:</b>	Efficiency inputs related to the 2019 residential variable capacity heat pump (VCHP) research software.
<b>Filer:</b>	Adrian Ownby
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
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Project Title: Residential Alternative Calculation Method Variable Capacity Heat Pump Modeling Approach

Document Title: 2019 Residential VCHP Software

Description: Efficiency inputs related to the 2019 residential variable capacity heat pump (VCHP) research software.

CBECC-Res 2019.1.0 software includes the ability to test the variable capacity heat pump (VCHP) compliance option for research purposes. In order for the compliance option to calculate properly, the user inputs for the heating performance and cooling performance need to be left as default values or manually changed to:

HSPF: 8.2  
SEER: 14.0  
EER: 11.6

Heat Pump System: HeatpumpSystem

Heat Pump Data

Currently Active Heating System: HeatpumpSystem

Name: HeatpumpSystem

Type: VCHP - Meets requirements of the VCHP compliance option

VCHP: Meets all the requirements of the VCHP Compliance Option.

**HSPF, Cap @ 17, SEER and EER for reporting only, no analysis impact**

Heating Performance: HSPF: 8.2 ratio

Cooling Performance: SEER: 14 (kBtu/h)/kW  
EER: 11.6 kBtu/h/kW

The VCHP functionality is for research purposes only and CANNOT be used to show compliance. The CF1R document can be generated but will be watermarked “Not Useable For Compliance”.