

Technical Bulletin

HERS Verification of Heat Pump Capacity New Verifiable HERS Measure for the 2019 Standards

As Heat Pump space conditioning systems become more common in California, it is important for HERS Raters and Energy Consultants to note that it is very likely the *heating capacity* will have to be confirmed in a 3rd party inspection.

In previous code cycles, HERS verifiable Rated Equipment (CF3R-MCH-26), requires a Rater to confirm that an *installed* equipment combination meets SEER, EER, and/or HSPF efficiency targets using an approved product directory such as [AHRI](#).

New to the 2019 standards is an additional requirement to verify that an equipment combination also meets a specific *Heating BTU Output* at 47°F and 17°F outdoor dry-bulb.

AHRI Certified Ratings					
Cooling Capacity (A2) - Single or High Stage (95F)	EER (A2) - Single or High Stage (95F)	SEER	Heating Capacity (H12) - Single or High Stage (47F)	HSPF (Region IV)	Heating Capacity (H32) - Single or High Stage (17F)
23000	13.00	16.00	22600	9.00	14000

The following procedure for this visual verification is listed in RA3.4.4.2 and RCM4.2.3.1:

- Record the manufacturer name and the model number of the outdoor unit, or package unit.
- Record the manufacturer name and the model number of the inside coil if applicable.
- Record the name of the product directory used to certify the system performance.
- Record the certification number of the installed system if the certification number for listed products are published by the product directory.
- Record the system's rated heating capacity at 47°F as published by the product directory.
- Record the system's rated heating capacity at 17°F if the value is published by the product directory.
- If the installed system rated heating capacities at 47°F and 17°F are equal to or greater than the values specified on the Certificate of Compliance, the system complies. If the product directory does not publish capacity ratings at 17°F, then compliance with capacity at 17°F is not required.

It is highly recommended that the Energy Consultant and the HVAC designer coordinate regarding heat pump capacities (on the CF1R). Equipment that meets the heating load calculations of the home at the specified outdoor conditions should be carefully selected and installed. If the installed equipment does not meet these target capacities, the equipment may not be sized correctly. The Energy Consultant and the HVAC designer should then determine how to proceed.

It is the Rater's responsibility to confirm that the installed equipment combination meets the heating capacities listed on the CF1R using an approved product directory.

Additional questions about [HERS Verification of Heat Pump Capacity](#), may be directed to CalCERTS support: support@calcerts.com or (916) 985-3400, ext.*

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