RATED SPACE CONDITIONING SYSTEM EQUIPMENT VERIFICATION

CALIFORNIA ENERGY COMMISSION

CEC-LMCV-MCH-26-H

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

CERTIFICATE OF VERIFICATION

Note: This table completed by ECC Registry.

Project Name:	Enforcement Agency:
Dwelling Address:	Permit Number:
City and Zip Code:	Permit Application Date:

A. System Information

Procedures for verification of High SEER/SEER2 and EER/EER2 Equipment are described in Reference Appendix RA3.4. Each HVAC system requiring verification must use a separate form.

01	Space Conditioning System Identification or Name	
02	Space Conditioning System Description of Area Served	
03a	Efficiency Metric	
03	Status: SEER/SEER2 Performance Compliance Credit Check	
04	Status: EER/EER2 Performance Compliance Credit Check	
05	Status: Heat Pump Heating Output Performance Compliance Check	
06	Status: HSPF/HSPF2 Performance Compliance Credit Check	
07	Directory Used to Certify Product Performance	
08	AHRI Certification Number for the Installed Space Conditioning System from http://www.ahridirectory.org	
09	Does the directory used to certify product performance require a specific air handler, furnace or fan coil make and model?	
10	Does the directory used to certify product performance require a time delay relay (+TDR)?	
11	Does the directory used to certify product performance require a TXV (+TXV)?	

B. Rated Space Conditioning System Equipment Information from Nameplate of the Installed System

The data on the nameplate of the installed component shall conform to the data for the component as shown in the Directory used to certify product performance in order to demonstrate compliance.

01	02	03	04	Data from nameplate of the installed system component					
				05	06	07	08	09	10
SC System ID/Name from CF1R	SC System Description of Area Served	Indoor Unit Name or Description of Area Served	Installed Indoor Unit Type	Outdoor Condenser or Package Unit – Installed Manufacturer Name	Outdoor Condenser or Package Unit - Installed Model Number	Indoor Unit – Installed Manufacturer Name	Indoor Unit - Installed Model Number	Installed Furnace Manufacturer Name	Installed Furnace Model Number

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

C. Rated Space Conditioning System Equipment Information from Directory of Certified Product Performance

The data on the nameplate of the installed component shall conform to the data for the component as shown in the Directory used to certify product performance in order to demonstrate compliance.

01	02	03	04	Data from the directory used to certify product performance for the rated system component					
				05	06	07	08	09	10
SC System ID/Name from CF1R	SC System Description of Area Served	Indoor Unit Name or Description of Area Served	Installed Indoor Unit Type	Outdoor Condenser or Package Unit – Installed Manufacturer Name	Outdoor Condenser or Package Unit - Installed Model Number	Indoor Unit – Installed Manufacturer Name	Indoor Unit - Installed Model Number	Installed Furnace Manufacturer Name	Installed Furnace Model Number

D. Verified Cooling System SEER/SEER2

Signature by responsible person on this compliance document certifies that the installed cooling equipment meets or exceeds the required value listed on the LMCI.

01	Required Minimum SEER/SEER2	
02	Installed SEER/SEER2	
03	Compliance Statement:	

E. Verified Cooling System EER/EER2

Signature by responsible person on this compliance document certifies that the installed cooling equipment meets or exceeds the required value listed on the LMCI.

01	Required Minimum EER/EER2	
02	Installed EER/EER2	
03	Compliance Statement:	

F. Verified Heat Pump Heating Output

Signature by responsible person on this compliance document certifies that the installed cooling equipment meets or exceeds the required value listed on the LMCI.

01	Required Heating BTU Output at 47 Degrees F	
02	Installed Heating BTU Output at 47 Degrees F	
03	Required Heating Output at 17 Degrees F	
04	Installed Heating Output at 17 Degrees F	
05	Compliance Statement:	

G. Verified Heat Pump HSPF/HSPF2

Signature by responsible person on this compliance document certifies that the installed cooling equipment meets or exceeds the required value listed on the LMCI.

01	Required Minimum HSPF/HSPF2	
02	Installed HSPF/HSPF2	
03	Compliance Statement:	

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

H. Verified Space Conditioning System Air Handler, Furnace or Fan Coil

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.

01	If a specific air handler, furnace or fan coil is required by the directory used to certify product performance, the responsible person certifies by signing this compliance document that the installed air handler/furnace matches the equipment specified by the Directory of Certified Performance.	
02	Verification Status:	☐ Pass - all applicable requirements are met; or ☐ Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or ☐ All N/A - This entire table is not applicable
03	Correction Notes:	

I. Verified Space Conditioning System Time Delay Relay

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.

01	If a Time Delay Relay is specified by the Directory of Certified Product Performance, the responsible person certifies by signing this compliance document that the Time Delay Relay is installed and has been tested to operate correctly according to the protocols of RA3.4.3.	
02	Verification Status:	☐ Pass - all applicable requirements are met; or ☐ Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or ☐ All N/A - This entire table is not applicable
03	Correction Notes:	

J. Verified Space Conditioning System TXV

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.

01	If a TXV is specified by the Directory of Certified Product Performance, the responsible person certifies by signing this compliance document that the TXV is properly installed and has been visually verified, including proper placement of the sensing bulb.	
02	Verification Status:	☐ Pass - all applicable requirements are met; or ☐ Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or ☐ All n/a - This entire table is not applicable
03	Correction Notes:	

K. Determination of ECC Verification Compliance

All applicable sections of this document shall indicate compliance with the specified verification protocol requirements in order for this Certificate of Verification as a whole to be determined to be in compliance.

01	

RATED SPACE CONDITIONING SYSTEM EQUIPMENT VERIFICATION

CALIFORNIA ENERGY COMMISSION

CEC-LMCV-MCH-26-H

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Installation documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company:	Date Signed:
Address:	CEA/AEA/ECC Certification Identification (If applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Verification is true and correct.
2. I am the certified ECC Rater who performed the verification identified and reported on this Certificate of Verification (responsible rater).
3. The installed features, materials, components, manufactured devices, or system performance diagnostic results that require ECC verification identified on this Certificate of Verification comply with the applicable requirements in Reference Appendices RA2, RA3, and the requirements specified on the Certificate of Compliance for the building approved by the enforcement agency.
4. The information reported on applicable sections of the Certificate(s) of Installation (LMCI) signed and submitted by the person(s) responsible for the construction or installation conforms to the requirements specified on the Certificate(s) of Compliance (LMCC) approved by the enforcement agency.
5. I understand that a registered copy of this Certificate of Verification shall be posted, or made available with the building permit(s) issued for the building and shall be made available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill this requirement.
6. I understand that a registered copy of this Certificate of Verification is required to be included with the documentation the builder provides to the building owner at occupancy. I will take the necessary steps to fulfill this requirement.

BUILDER OR INSTALLER INFORMATION AS SHOWN ON THE CERTIFICATE OF INSTALLATION

Company Name (Installing Subcontractor, General Contractor, or Builder/Owner):	
Responsible Builder or Installer Name:	CSLB License:

ECC PROVIDER DATA REGISTRY INFORMATION

Sample Group Number (if applicable):	Dwelling Test Status in Sample Group (if applicable):

ECC RATER INFORMATION

ECC Rater Company Name:	
Responsible Rater Name:	Responsible Rater Signature:
Responsible Rater Certification Number w/ this ECC Provider:	Date Signed:

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300

LMCV-MCH-26-H User Instructions

Section A. System Information

1. System Name or Identification/Tag: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
2. System Location or Area Served: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.

3a. Efficiency Metric: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.

3. Status: SEER/SEER2 performance compliance credit check: This field is filled out automatically. It is referenced from the LMCI.
4. Status: EER/EER2 performance compliance credit check: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
5. Status: Heat Pump Heating Output Performance Compliance Check: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
6. Status: HSPF/HSPF2 performance compliance credit check: This field is filled out automatically. It is referenced from the LMCI.
7. Directory Used to Certify Product Performance: User to select from dropdown list the certification data base used to document equipment efficiency. Choices are AHRI, CEC and DOE.
8. AHRI Certification Number for the Installed Space Conditioning System: If the directory used is not AHRI, "N/A" will automatically be entered. Otherwise, enter the complete AHRI Certification Number for the Installed Space Conditioning System. This number represents a specific piece of equipment (e.g., package units) or combination of equipment (e.g., split systems) that must match the installed equipment.
9. Does the directory used to certify product performance require a specific air handler, furnace or fan coil make and model?: If not using AHRI, user has the option to select "N/A." Note that when using AHRI, this does not apply to package units. Sometimes, for split systems, a specific model air handler/furnace will be called out in addition to the condenser and coil. When it is, it must be installed and verified for the AHRI certificate to be valid for the installed system. Sometimes, the AHRI certificate only calls out the condenser and coil model numbers. In this case the furnace make/model need not be verified. If not, select "No".
10. Does the directory used to certify product performance require a time delay relay (+TDR)?: If not using AHRI, user has the option to select "N/A." If the AHRI certificate specifies that a TDR was on the system when it was tested, then the TDR is required for the system to achieve its certified efficiency and it must be verified. If not, select "No". The indication for a TDR usually consists of a "+TDR" at the end of the model number. Sometimes it may just be a "+D" (delay).
11. Does the directory used to certify product performance require a TXV (+TXV)?: If not using AHRI, user has the option to select "N/A." If the AHRI certificate specifies that a TXV was on the system when it was tested, then the TXV is required for the system to achieve its certified efficiency and it must be verified. If not, select "No". The indication for a TXV usually consists of a "+TXV" at the end of the model number. Sometimes it may just be a "+V" (valve).

Section B. Rated Space Conditioning System Equipment Verification from Nameplate

1. System Name or Identification/Tag: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
2. System Location or Area Served: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
3. Indoor unit Name: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.

4. Installed Indoor unit type is automatically filled out.
5. Outdoor Condenser or Package Unit - Installed Manufacturer Name, Data from Nameplate of Installed system component: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
6. Outdoor Condenser or Package Unit - Installed Model Number, Data from Nameplate of Installed system component: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
7. Indoor Coil - Installed Manufacturer Name, Data from Nameplate of Installed system component: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
8. Indoor Coil - Installed Model Number, Data from Nameplate of Installed system component: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document. For systems where there is no separate inside coil "N/A" will be automatically entered.
9. Installed Furnace Installed Manufacturer Name, Data from Nameplate of Installed system component: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
10. Installed Furnace Installed Model Number, Data from Nameplate of Installed system component: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document

Section C. Rated Space Conditioning System Equipment Verification from Directory

1. System Name or Identification/Tag: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
2. System Location or Area Served: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
3. Indoor unit Name: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
4. Installed Indoor unit type is automatically filled out.
5. Outdoor Condenser or Package Unit - Installed Manufacturer Name, Data from the Directory used to certify product performance for the rated system component: Enter the Manufacturer's name for the condenser as it appears in the Directory. For Package units, this will be the only Manufacturer's name.
6. Outdoor Condenser or Package Unit - Installed Model Number, Data from the Directory used to certify product performance for the rated system component: Enter the Manufacturer's model number for the condenser as it appears in the Directory. For Package units, this will be the only model number required.
7. Indoor Coil - Installed Manufacturer Name, Data from the Directory used to certify product performance for the rated system component: Enter the Manufacturer's name for the inside coil (aka, indoor coil, evaporator coil) as it appears in the Directory. For system types that don't have separate inside coils or if the directory rating does not include this information, like package units, fan coil units and multi-split variable capacity heat pumps, user may enter "N/A".
8. Indoor Coil - Installed Model Number, Data from the Directory used to certify the rated system component: Enter the Manufacturer's model number for the inside coil (aka, indoor coil, evaporator coil) as it appears in the Directory. For system types that don't have separate inside coils or if the directory rating does not include this information (package units, fan coil units, multi-split variable capacity heat pumps), user may enter "N/A".
9. Installed Furnace Manufacturer Name, Data from the directory used to certify product performance for the rated system component: If not using AHRI, user has the option to select "N/A." Enter the Manufacturer's name for the air handler/furnace as it appears in the directory. For package units there is

no separate air handler, so enter "N/A". Also enter "N/A" if a specific furnace or air handler is not called out in the directory, as indicated in Section A, above.

10. Installed Furnace Installed Model Number, Data from the directory used to certify product performance for the rated system component: If not using AHRI, user has the option to select "N/A". Enter the Manufacturer's model number for the air handler/furnace as it appears in the directory. For package units there is no separate air handler, so enter "N/A". Also enter "N/A" if a specific furnace or air handler is not called out in the directory, as indicated in Section A, above.

Section D. Verified Cooling System SEER/SEER2

1. Required Minimum SEER/SEER2: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
2. Installed SEER/SEER2: Enter the exact SEER value shown in the Directory used to certify the equipment shown in Section A, above.
3. Compliance Statement: This field is filled out automatically. Compliance requires that the installed SEER meet the required minimum SEER2.

Section E. Verified Cooling System EER/EER2

1. Required Minimum EER/EER2: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
2. Installed EER/EER2: Enter the exact EER value shown in the Directory used to certify for the equipment shown in Section A, above.
3. Compliance Statement: This field is filled out automatically. Compliance requires that the installed EER meet the required minimum EER

Section F. Verified Heat Pump Heating Output

1. Required Heating BTU Output at 47 Degrees F: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
2. Installed Heating BTU Output at 47 Degrees F: Enter the exact Heating BTU Output at 47 Degrees F value shown on in the Directory used to certify the equipment shown in Section A, above.
3. Required Heating BTU Output at 17 Degrees F: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
4. Installed Heating BTU Output at 17 Degrees F: Enter the exact Heating BTU Output at 17 Degrees F value shown on in the Directory used to certify the equipment shown in Section A, above. N/A entry is allowed if heat pump system output is not rated at 17 degrees F in any directory
5. Compliance Statement: This field is filled out automatically. If both rating points are available compliance requires that the installed Heating BTU Output at 47 Degrees and Heating BTU Output at 17 Degrees meet the required minimum from LMCI-MCH-01 or if the high temperature is available compliance requires that the installed Heating BTU Output at 47 Degrees meet the required minimum from LMCI-MCH-01.

Section G. Verified Heat Pump System HSPF/HSPF2

1. Required Minimum HSPF/HSPF2: This field is filled out automatically. It is referenced from the LMCI-MCH-01, which must be completed prior to this document.
2. Installed HSPF/HSPF2: Enter the exact HSPF value shown in the Directory used to certify for the equipment shown in Section A, above.
3. Compliance Statement: This field is filled out automatically. Compliance requires that the installed EER meet the required minimum EER.

Section H. Verified Cooling System Air Handler/Furnace

1. This statement must be true for the system to comply.
2. Verification Status: Select the appropriate choice from the following list:
    a. Select "Pass" if the installed air handler/furnace matches the air handler/furnace on the AHRI certificate.
    b. Select "Fail" if the installed air handler/furnace does not match the air handler/furnace on the AHRI certificate. You will be required to enter an explanation in the notes section below.
    c. Select "N/A" if this section does not apply.

Correction Notes: If "Fail" is selected in the previous row, indicate specifically why in this section

Section I. Verified Cooling System Time Delay Relay

1. This statement must be true for the system to comply.
2. Verification Status: Select the appropriate choice from the following list:
    a. Select "Pass" if the installed has a time delay relay that meets the verification requirements of RA3.4.3.
    b. Select "Fail" if the installed system does not meet the verification requirements of RA3.4.3.
    c. Select "N/A" if this section does not apply.
3. Correction Notes: If "Fail" is selected in the previous row, indicate specifically why in this section.

Section J. Verified Cooling System TXV

1. This statement must be true for the system to comply.
2. Verification Status: Select the appropriate choice from the following list:
    a. Select "Pass" if a TXV is specified by the Directory of Certified Product Performance and a TXV has been installed.
    b. Select "Fail" if a TXV is specified by the Directory of Certified Product Performance but has not been installed.
    c. Select "N/A" if this section does not apply.
3. Correction Notes: If "Fail" is selected in the previous row, indicate specifically why in this section.

Section K. Determination of ECC Verification Compliance

1. Compliance Statement: This field is filled out automatically.

Documentation Declaration Statements

1. The person who prepared the LMCV will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature.
2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields (if applicable) for their company, responsible builder or installer name, CSLB license number, sample group number, dwelling test status in sample group, ECC Rater company name, ECC Rater name, ECC Rater signature, ECC Rater certification number and date signed.