

CEC-CF3R-MCH-20-H

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

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Project Name:	Enforcement Agency:	
Dwelling Address:	Permit Number:	
City and Zip Code:	Permit Application Date:	\(\mathcal{O}\)

A. System Information

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01	Space Conditioning System Identification or Name	
02	Space Conditioning System Location or Area Served	
03	Indoor Unit Name or Description of Area Served	
04	Building Type from CF1R	
05	Verified Low Leakage Ducts in Conditioned Space (VLLDCS) Credit from CF1R?	
06	Verified Low Leakage Air-Handling Unit Credit from CF1R?	(1, (0, (0)
07	Duct System Compliance Category	
08	Any portions of Duct Located in Garage?	
09	Is the system type Small Duct High Velocity (SDHV)?	

B1. Duct Leakage Diagnostic Test for Completely New Duct System

D1. L	det Leakage Diagnostic Test for Completely New Duct s	ystem
01	Air-Handling Unit Airflow (AHU Airflow) Determination Method	
02	Condenser Nominal Cooling Capacity (ton)	
03	Indoor Unit Nominal Cooling Capacity	
04	Heating Capacity (kBtu/h)	
05	Conditioned Floor Area Served by this HVAC System (ft²)	
06	Measured AHU Airflow (cfm)	
07	Duct Leakage Test Conditions	
08	Duct Leakage Test Method	
09	Leakage Factor	
10	Calculated Target Allowable Duct Leakage Rate (cfm)	
11	Actual Duct Leakage Rate from Leakage Test Measurement (cfm)	
12	Compliance Statement:	
13	Notes:	

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B2. Duct Leakage Diagnostic Test for Low Leakage Ducts in Conditioned Space

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01	System compliance with visual inspection per RA3.1.4.1.3?	
02	Duct Leakage Test Conditions	
03	Duct Leakage Test Method	
04	Target Allowable Duct Leakage Rate (cfm)	
05	Actual Duct Leakage Rate from Leakage Test Measurement (cfm)	
06	Compliance Statement:	

B3. Duct Leakage Diagnostic Test for Low Leakage Air-Handling Unit (LLAHU)

	<u> </u>	
01	Air-Handling Unit Airflow (AHU Airflow) Determination Method	
02	Condenser Nominal Cooling Capacity (ton)	
03	Indoor Unit Nominal Cooling Capacity	
04	Heating Capacity (kBtu/h)	17 6 A
05	Conditioned Floor Area Served by this HVAC System (ft²)	
06	Measured AHU Airflow (cfm)	A. Y. L. YO.
07	Duct Leakage Test Conditions	
08	Duct Leakage Test Method	
09	Leakage Factor	
10	Calculated Target Allowable Duct Leakage Rate (cfm)	
11	Actual Duct Leakage Rate from Leakage Test Measurement (cfm)	2
12	Air-Handling Unit Manufacturer Name	
13	Air-Handling Unit Model Number	
14	Compliance Statement:	
15	Notes:	

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B4. Duct Leakage Diagnostic Test for Complete Replacement or Altered Duct System

01	Air-Handling Unit Airflow (AHU Airflow) Determination Method	
02	Condenser Nominal Cooling Capacity (ton)	
03	Indoor Unit Nominal Cooling Capacity	
04	Heating Capacity (kBtu/h)	
05	Conditioned Floor Area Served by this HVAC System (ft²)	
06	Measured AHU Airflow (cfm)	
07	Duct Leakage Test Conditions	4.14.024
08	Duct Leakage Test Method	
09	Leakage Factor	6.6
10	Calculated Target Allowable Duct Leakage Rate (cfm)	
11	Actual Duct Leakage Rate from Leakage Test Measurement (cfm)	
12	Compliance Statement:	
13	Notes:	

B5. Duct Leakage Diagnostic Test for Smoke Test or Alteration Using Smoke Test

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01	Air-Handling Unit Airflow (AHU Airflow) Determination Method	
02	Condenser Nominal Cooling Capacity (ton)	
03	Indoor Unit Nominal Cooling Capacity	
04	Heating Capacity (kBtu/h)	
05	Conditioned Floor Area Served by this HVAC System (ft²)	
06	Measured AHU Airflow (cfm)	
07	Duct Leakage Test Conditions	
08	Duct Leakage Test Method	
09	Leakage Factor	
10	Calculated Target Allowable Duct Leakage Rate (cfm)	
11	Actual Duct Leakage Rate from Leakage Test Measurement (cfm)	
12	Compliance Statement:	
13	Notes:	

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C. Ducts Located in Garage Spaces

01	Duct Leakage Test Method	
02	Leakage Factor	
03	Air-Handling Unit Airflow (AHU Airflow) Determination Method	
04	Measured AHU Airflow (cfm)	
05	Calculated Target Allowable Duct Leakage Rate (cfm)	
06	Actual Duct Leakage Rate from Leakage Test Measurement (cfm)	
07	Compliance Statement:	

D. Additional Requirements for Compliance

The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.

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01	System was tested in its normal operation of	condition. No temporary taping allowed.
02	used for Central Fan Integrated (CFI) Indoor	ntral forced air duct system shall not be sealed/taped off during duct leakage testing. OA ducts r Air Quality ventilation systems, or Central Fan Ventilation Cooling Systems, that utilize and automatically close when OA is not required, may configure the OA damper to the
03	All supply and return register boots were se	ealed to the drywall.
04	Building cavities were not used as plenums	or platform returns, in lieu of ducts.
05	If cloth backed tape was used it was covere	d with Mastic and draw bands.
06	All connection points between the air hand	ler and the supply and return plenums are completely sealed.
07	, , ,	ection at final construction stage: For all supply and return registers, verify that the he interior finishing wall are properly sealed.
08		ection at final construction stage: If the house rough-in duct leakage test was led, inspect the connection points between the air handler and the supply and return points are properly sealed.
09	For completely new systems visual insp rubber adhesive duct tape is used.	ection at final construction stage: Inspect all joints to ensure that no cloth backed
10	compliance document is included in the Website at:	-Handling Unit (LLAHU): The Low Leakage Air-handling Unit Model identified on this e list of certified Low Leakage Air-Handling Units published on the Energy Commission regulations/building-energy-efficiency/manufacturer-certification-building-
11		s: If the system complies using the Smoke Test method, the smoke test was conducted in ence Residential Appendix RA3.1.4.3.6. Systems that comply using the smoke test shall not be on compliance.
12	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
13	Correction Notes:	

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E. 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.

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

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Documentation Author Name:	Documentation Author Signature:
Documentation Author Company Name:	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 (CF2R) signed and submitted by the person(s) responsible for the construction or installation conforms to the requirements specified on the Certificate(s) of Compliance (CF1R) 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

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CERTIFICATE OF VERIFICATION - USER INSTRUCTIONS	CF3R-MCH-20-H
Duct Leakage Diagnostic Test - MCH-20	(Page 1 of 7)

CF3R-MCH-20-H User Instructions

A. System Information

- 1 *HVAC System Identification or Name*: This field is filled out automatically. It is referenced from the CF2R-MCH-20, which must be completed prior to this document.
- 2. *HVAC System Location or Area Served*: This field is filled out automatically. It is referenced from the CF2R-MCH-20, which must be completed prior to this document.
- 3. *Indoor Unit Name:* This field is filled out automatically. It is referenced from the CF2R-MCH-20, which must be completed prior to this document.
- 4. Building Type: This field is filled out automatically. It is referenced from the CF2R-MCH-20
- 5. *Verified Low Leakage Ducts in Conditioned Space (VLLDCS)*: This field is filled out automatically. It is referenced from the CF2R-MCH-20.
- 6. *Verified Low Leakage Air-Handling Unit (VLLAHU) Credit* This field is filled out automatically. It is referenced from the CF2R-MCH-20.
- 7. *Duct System Compliance Category*: This field is filled out automatically. It is referenced from the CF2R-MCH-20.
- 8. Any portions of Duct Located in Garage: User select from Yes or No.

B1. Duct Leakage Diagnostic Test for Completely New Duct System

- 1. Air-Handling Unit Airflow (AHU Airflow) Determination Method: User will select from the following options:
 - a. Default Airflow Method: The Default Airflow Method may only be used for homes where the duct system is being tested before the conditioning and heating system is installed and the equipment specification is not known (See Section RA3.1.4.2.1 of the 2025 Reference Appendices).
 - b. Cooling System Method: For systems with air conditioning, this selection must be made, and the nominal air handler airflow shall be 400 CFM per nominal ton of condensing unit cooling capacity as specified by the manufacturer
 - c. Heating System Method: For heating only systems the nominal air-handler airflow shall be 21.7 CFM per kBtu/h of rated heating output capacity.
 - d. Measured Airflow Method: The measured system airflow can be used as the air-handler airflow for the purpose of establishing duct leakage percentage (See Section RA3.1.4.2.3 of the 2025 Reference Appendices).
 - e. Indoor Unit Method
- 2. Condenser Nominal Cooling Capacity (ton): Same data given on MCH-01.
- 3. Indoor Unit Nominal Cooling Capacity: Same data given on MCH-01.
- 4. Heating Capacity (kBtu/h): Same data given on MCH-01;
- 5. Conditioned Floor Area Served by this HVAC System (ft²): User must input CFA for the space. Should be consistent with the CF1R input value.
- 6. *Measured AHU Airflow (CFM)*: If "Measured Airflow Method" is selected, user must input measured airflow.
- 7. *Duct Leakage Test Conditions*: Select from the following options:
 - a. Test Rough-in AHU: Installers may determine duct leakage in new construction by using diagnostic measurements at rough-in building construction stage prior to installation of interior finishing (See

- Section RA3.1.4.3.2 of the 2025 Reference Appendices). In this case the air-handling unit (AHU) is installed at the time of test.
- b. Test Rough-in No AHU: Same as "Test Rough-in" except air handling unit is not yet installed (See Section RA3.1.4.3.2 of the 2025 Reference Appendices).
- c. Test Final: Test conducted at "final", i.e. all equipment, ducts, and registers are installed and the system is essentially in its final operating condition. (rough-in no longer an option. See Section RA3.1.4.3.1 of the 2025 Reference Appendices).
- 8. *Duct Leakage Test Method*: Select from the following options: Leakage to the Outside (house is pressurized simultaneously with the ducts such that only leakage going outside of the pressurized conditioned shell is measured, see RA3.1.4.3.4), or Total Leakage.
- 9. Leakage Factor: This field is automatically filled out based on choices in previous fields.
- 10. Calculated Target Allowable Duct Leakage Rate (cfm): This value will be automatically calculated based on values entered in previous fields.
- 11. Actual Duct Leakage Rate from Leakage Test Measurement (cfm): Input the duct leakage rater taken from actual test measurements.
- 12. *Compliance Statement*: If Actual Duct Leakage Rate from leakage test is less than or equal to Calculated Target Allowable Duct Leakage Rate, "System passes leakage test" will automatically populate. If not, "System fails leakage test" will automatically populate.
- 13. *Notes*: This field is automatically filled out. The values in B02, B03, B04 and B05 are checked against the values in the same rows of the CF2R-MCH-20 for this system. If they do not match, an error message will appear here.

B2. Duct Leakage Diagnostic Test - Low Leakage Ducts in Conditioned Space

- 1. System compliance with visual inspection per RA3.1.4.1.3: This field will be automatically filled. A visual inspection confirms the space conditioning system is located entirely in conditioned space in accordance with RA3.1.4.1.3. If any part of the duct system is outside of conditioned space, the system does not pass.
- 2. Duct Leakage Test Conditions: This field will be automatically filled. The entire duct system shall be included in the total leakage test. The air handler, supply and return plenums and all the connectors, transition pieces, duct boots and registers must be installed and tested to total system leakage. All supply registers shall be taped so that the tape goes over the grills and attaches to the surrounding drywall. All return grilles except for one large centrally located return grille or the air handler cabinet access panel shall be taped up.
- 3. Duct Leakage Test Method: This field will be automatically filled. Leakage to outside shall be verified by pressurizing the dwelling and the ducts to 25 Pa (0.1 inches of water) with respect to outside. A full description of these procedures can be found in RA3.1.4.3.4.
- 4. Target Allowable Duct Leakage Rate (cfm): This field will be automatically filled. In order to pass this test duct leakage must be equal to or less than 25 cfm when the dwelling and ducts are pressurized to 25 Pa with respect to outside. NOTE: The 25 cfm leakage value will be difficult to reach unless the ducts are located in conditioned space.
- 5. Actual Duct Leakage Rate from Leakage Test Measurement (cfm): Input the duct leakage rate taken from actual test measurements.

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6. *Compliance statement:* This field will be automatically filled. The test passes if actual leakage rate is less than or equal to 25 cfm and a MCH-21 has been registered.

B3. Duct Leakage Diagnostic Test - Low Leakage Air-Handling Unit (LLAHU)

- 1. Air-Handling Unit Airflow (AHU Airflow) Determination Method: User will select from the following options:
 - a. Cooling System Method: For systems with cooling, this selection must be made, and the nominal air handler airflow shall be 400 CFM per nominal ton of condensing unit cooling capacity as specified by the manufacturer or the heating only value, whichever is greater (See Section RA3.1.4.2.2 of the 2025 Reference Appendices).
 - b. Heating System Method: For heating only systems the nominal air handler airflow shall be 21.7 CFM per kBtu/h of rated heating output capacity.
 - c. Measured Airflow Method: The system airflow can be used as the air-handler airflow for the purpose of establishing duct leakage percentage (See Section RA3.1.4.2.3 of the 2025 Reference Appendices).
 - d. Default Airflow Method: The Default Airflow Method may only be used for homes where the duct system is being tested before the conditioning and heating system is installed and the equipment specification is not known (See Section RA3.1.4.2.1 of the 2025 Reference Appendices).
 - e. Indoor Unit Method
- 2. Condenser Nominal Cooling Capacity (ton): Same data given on MCH-01.
- 3. Indoor Unit Nominal Cooling Capacity: Same data given on MCH-01.
- 4. Heating Capacity (kBtu/h): Same data given on MCH-01;
- 5. Conditioned Floor Area Served by this HVAC System (ft²): User will input CFA for zone which should be consistent with the value from the CF1R. User will have the option to leave this field blank because the zone CFA is only required for the default airflow calculation.
- 6. Measured AHU Airflow (cfm): If "Measured Airflow Method" is selected, user must input measured airflow.
- 7. Duct Leakage Test Conditions: User must select from the following options:
 - a. Test Final: Test conducted at final inspection (testing at rough is not an option with this test. See Section RA3.1.4.3.1 of the 2025 Reference Appendices).
- 8. Duct Leakage Test Method: User will select from the following options: Total Leakage.
- 9. Leakage Factor: Value will be automatically populated from in CF2R-MCH-20.
- 10. Calculated Target Allowable Duct Leakage Rate (cfm): This value will be automatically populated depending on values in B06, B07, and B08.
- 11. Actual Duct Leakage Rate from Leakage Test Measurement (cfm): User will input this value from actual measurements from leakage test.
- 12. Air-Handling Unit Manufacturer Name: This will be automatically populated from information entered in the MCH-01.
- 13. Air-Handling Unit Model Number: This will be automatically populated from information entered in the MCH-01.
- 14. *Compliance Statement*: If Actual Duct Leakage Rate from leakage test is less than or equal to Calculated Target Allowable Duct Leakage Rate, "System passes leakage test" will automatically populate. If not, "System fails leakage test will automatically populate.

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15. *Notes:* This field is automatically filled out. The values in B02, B03, B04, B05, B12 and B13 are checked against the values in the same rows of the CF2R-MCH-20 for this system. If they do not match an error message will appear here.

B4. Duct Leakage Diagnostic Test - Complete Replacement or Altered Duct System

- 1. Air-Handling Unit Airflow (AHU Airflow) Determination Method: User will select from the following options:
 - a. Default Airflow Method: The Default Airflow Method may only be used for homes where the duct system is being tested before the conditioning and heating system is installed and the equipment specification is not known (See Section RA3.1.4.2.1 of the 2025 Reference Appendices).
 - b. Cooling System Method: For systems with air conditioning, this selection must be made, and the nominal air handler airflow shall be 400 CFM per nominal ton of condensing unit cooling capacity as specified by the manufacturer (Note: the heating only value may be used, if higher, See Section RA3.1.4.2.2 of the 2025 Reference Appendices).
 - c. Heating System Method: For heating only systems the nominal air handler airflow shall be 21.7 CFM per kBtu/h of rated heating output capacity.
 - d. Measured Airflow Method: The measured system airflow can be used as the air handler airflow for the purpose of establishing duct leakage percentage (See Section RA3.1.4.2.3 of the 2025 Reference Appendices).
 - e. Indoor Unit Method
- 2. *Condenser Nominal Cooling Capacity (ton)*: Same data given on MCH-01. Should be consistent with CF2R-MCH-20 for this system.
- 3. Indoor Unit Nominal Cooling Capacity: Same data given on MCH-01.
- 4. Heating Capacity (kBtu/h): Same data given on MCH-01. Should be consistent with CF2R-MCH-20 for this system.
- 5. Conditioned Floor Area Served by this HVAC System (ft²): User must input CFA for the space. Should be consistent with the CF1R input value. Should be consistent with CF2R-MCH-20 for this system.
- 6. *Measured AHU Airflow (CFM)*: If "Measured Airflow Method" is selected, user must input measured airflow.
- 7. Duct Leakage Test Conditions: Select from the following options:
 - a. Test Rough-in AHU: Installers may determine duct leakage in new construction by using diagnostic measurements at rough-in building construction stage prior to installation of interior finishing (See Section RA3.1.4.3.2 of the 2025 Reference Appendices). In this case the air handling unit (AHU) is installed at the time of test.
 - b. Test Rough-in No AHU: Same as "Test Rough-in" except air handling unit is not yet installed (See Section RA3.1.4.3.2 of the 2025 Reference Appendices).
 - c. Test Final: Test conducted at "final", i.e. all equipment, ducts, and registers are installed and the system is essentially in its final operating condition. (rough-in no longer an option. See Section RA3.1.4.3.1 of the 2025 Reference Appendices).

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- 8. *Duct Leakage Test Method*: Select from the following options: Leakage to the Outside (house is pressurized simultaneously with the ducts such that only leakage going outside of the pressurized conditioned shell is measured, see RA3.1.4.3.4), or Total Leakage.
- 9. Leakage Factor: This field is automatically filled out based on choices in previous fields.
- 10. Calculated Target Allowable Duct Leakage Rate (cfm): This value will be automatically calculated based on values entered in previous fields.
- 11. Actual Duct Leakage Rate from Leakage Test Measurement (cfm): Input the duct leakage rater taken from actual test measurements.
- 12. Compliance Statement: If Actual Duct Leakage Rate from leakage test is less than or equal to Calculated Target Allowable Duct Leakage Rate, "System passes leakage test" will automatically populate. If not, "System fails leakage test" will automatically populate.
- 13. *Notes*: This field is automatically filled out. The values in B02, B03 and B04, B05 are checked against the values in the same rows of the CF2R-MCH-20 for this system. If they do not match an error message will appear here.

B5. Duct Leakage Diagnostic Test - Sealing All Accessible Leaks using Smoke Test

- 1. Air-Handling Unit Airflow (AHU Airflow) Determination Method: User will select from the following options:
 - a. Default Airflow Method: The Default Airflow Method may only be used for homes where the duct system is being tested before the conditioning and heating system is installed and the equipment specification is not known (See Section RA3.1.4.2.1 of the 2025 Reference Appendices).
 - b. Cooling System Method: For systems with air conditioning, this selection must be made, and the nominal air handler airflow shall be 400 CFM per nominal ton of condensing unit cooling capacity as specified by the manufacturer (Note: the heating only value may be used, if higher, See Section RA3.1.4.2.2 of the 2025 Reference Appendices).
 - c. Heating System Method: For heating only systems the nominal air handler airflow shall be 21.7 CFM per kBtu/h of rated heating output capacity.
 - d. Measured Airflow Method: The measured system airflow can be used as the air handler airflow for the purpose of establishing duct leakage percentage (See Section RA3.1.4.2.3 of the 2025 Reference Appendices).
 - e. Indoor Unit Method
- 2. Condenser Nominal Cooling Capacity (ton): Same data given on MCH-01.
- 3. Indoor Unit Nominal Cooling Capacity: Same data given on MCH-01.
- 4. Heating Capacity (kBtu/h): Same data given on MCH-01.
- 5. Conditioned Floor Area Served by this HVAC System (ft²): User must input CFA for the space. Should be consistent with the CF1R input value.
- 6. *Measured AHU Airflow (CFM)*: If "Measured Airflow Method" is selected, user must input measured airflow.
- 7. *Duct Leakage Test Conditions*: Select from the following options:
 - a. Test Rough-in AHU: Installers may determine duct leakage in new construction by using diagnostic measurements at rough-in building construction stage prior to installation of interior finishing (See

- Section RA3.1.4.3.2 of the 2025 Reference Appendices). In this case the air-handling unit (AHU) is installed at the time of test.
- b. Test Rough-in No AHU: Same as "Test Rough-in" except air handling unit is not yet installed (See Section RA3.1.4.3.2 of the 2025 Reference Appendices).
- c. Test Final: Test conducted at "final", i.e. all equipment, ducts, and registers are installed and the system is essentially in its final operating condition. (rough-in no longer an option. See Section RA3.1.4.3.1 of the 2025 Reference Appendices).
- 8. *Duct Leakage Test Method*: Select from the following options: Leakage to the Outside (house is pressurized simultaneously with the ducts such that only leakage going outside of the pressurized conditioned shell is measured, see RA3.1.4.3.4), or Total Leakage.
- 9. Leakage Factor: This field is automatically filled out based on choices in previous fields.
- 10. Calculated Target Allowable Duct Leakage Rate (cfm): This value will be automatically calculated based on values entered in previous fields.
- 11. Actual Duct Leakage Rate from Leakage Test Measurement (cfm): Input the duct leakage rater taken from actual test measurements.
- 12. Compliance Statement: If Actual Duct Leakage Rate is less than or equal to Calculated Target Allowable Duct Leakage Rate, "system passes system complies with Allowable Duct Leakage Rate Criterion" will automatically populate.
 - If measured leakage is greater than allowable duct leakage rate, then the following will automatically populate:

"System passes using smoke test of an altered HVAC system in an existing building

- No visible smoke exits the accessible portions of the duct system.
- Smoke is only emanating from air handler unit (AHU cabinet and non-accessible portions of the duct system.

Note: Accessible is defined as having access thereto, but which first may require removal or opening of access panels, doors, or moving similar obstructions. If access to the ducts requires an object to be demolished or deconstructed, then sealing of those ducts is not required.

14. *Notes*: This field is automatically filled out. The values in B02, B03, B04 and B05 are checked against the values in the same rows of the CF2R-MCH-20 for this system. If they do not match, an error message will appear here.

C. Ducts Located in Garage Spaces

- 1. Duct Leakage Test Method: This field is automatically filled out based on choices in previous fields.
- 2. Leakage Factor: This field is automatically filled out based on choices in previous fields.
- 3. Air-Handling Unit Airflow (AHU Airflow) Determination Method: This field is automatically filled out based on choices in previous fields.
- 4. Measured AHU Airflow (CFM): This field is automatically filled out based on choices in previous fields.
- 5. Calculated Target Allowable Duct Leakage Rate (cfm): This value will be automatically calculated based on values entered in previous fields
- 6. Actual Duct Leakage Rate from Leakage Test Measurement (cfm): This field is automatically filled out based on choices in previous fields

7. Compliance Statement: If Actual Duct Leakage Rate from leakage test is less than or equal to Calculated Target Allowable Duct Leakage Rate, passes message will automatically populate. If not, "System fails leakage test" will automatically populate.

D. Additional Requirements for Compliance

- 1. This field must be a true statement (or not applicable) for the system to comply.
- 2. This field must be a true statement (or not applicable) for the system to comply.
- 3. This field must be a true statement (or not applicable) for the system to comply.
- 4. This field must be a true statement (or not applicable) for the system to comply.
- 5. This field must be a true statement (or not applicable) for the system to comply.
- 6. This field must be a true statement (or not applicable) for the system to comply.
- 7. This field must be a true statement (or not applicable) for the system to comply.
- 8. This field must be a true statement (or not applicable) for the system to comply.
- 9. This field must be a true statement (or not applicable) for the system to comply.
- 10. This field must be a true statement (or not applicable) for the system to comply.
- 11. This field must be a true statement (or not applicable) for the system to comply.
- 12. Verification Status: If this Section does not apply, then select "All N/A". If the system meets all of the additional requirements for compliance that apply to the system, then select "Pass", otherwise select "Fail". The latter selection means that the system does not meet the applicable requirements and the system will need to be modified to meet the requirements or airflow and fan efficacy will have to be verified by diagnostic
- 13. *Correction Notes:* If one or more applicable requirements are not met "Fail" will appear in the row above. When this occurs the rater is required to enter detailed notes here that describe what failed and why.

Section E. Determination of ECC Verification Compliance

1. This field is filled out automatically. Compliance requires that all individual criteria pass.

Documentation Declaration Statements

- 1. The person who prepared the CF3R 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.