



CERTIFICATE OF INSTALLATION		CF2R-MCH-24-H
Building Leakage Worksheet		(Page 1 of 3)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City	Zip Code

A. Building Air Leakage – General Information	
01	Test Procedure Used:
02	Indoor temperature during test (degreeF)
03	Outdoor temperature during test (degreeF)
04	Blower door location
05	Building Elevation (ft)
06	Building Volume (ft3)
07	Date of the diagnostic test for this dwelling

B. Diagnostic Equipment Information				
01	Number of Manometers Used to Measure Home Pressurization			
02	03	04	05	06
Manometer Make	Manometer Model	Manometer Serial Number	Manometer Calibration Date	Manometer Calibration Status
07	Number of Fans Used to Pressurize Home			
08	09	10	11	
Fan Make	Fan Model	Fan Serial Number	Fan configuration (rings)	

C. Envelope Leakage Worksheet – Depressurization - MCH24e – Repeated Single Point Air Tightness Test With Automatic Meter	
01	Time average period of meter
02	Blower Door Software used for calculations?
03	04
Induced Building Pressure	Nominal CFM50
05	Average nominal CFM50

D. Altitude and Temperature Correction	
<<if row C. 2 = "no", use this section>>	
01	Altitude correction factor
02	Temperature correction factor
03	Corrected CFM50

STATE OF CALIFORNIA  
**BUILDING LEAKAGE WORKSHEET**

CEC-CF2R-MCH-24-H (Revised 06/14)

CALIFORNIA ENERGY COMMISSION



CERTIFICATE OF INSTALLATION		CF2R-MCH-24-H
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<b>E. Accuracy Adjustment</b>		
<<if row C. 2 = "no", use this section>>		
01	Standard deviation of nominal CFM 50 values above	
02	Percent uncertainty	
03	Accuracy level	
04	Extending factor	
05	Adjusted CFM50 (measured air leakage rate)	
<<if row C. 2 = "yes", use next two lines>>		
06	Corrected CFM50 (from software)	
07	Percent uncertainty @ 95% confidence level (from software)	

<b>F. Envelope Leakage Worksheet – Pressurization - MCH24e – Repeated Single Point Air Tightness Test With Automatic Meter</b>		
01	Time average period of meter	
02	Blower Door Software used for calculations?	
	03	04
	Induced Building Pressure	Nominal CFM50
05	Average nominal CFM50	

<b>G. Altitude and Temperature Correction</b>		
<<if row F. 2 = "no", use this section>>		
01	Altitude correction factor	
02	Temperature correction factor	
03	Corrected CFM50	

<b>H. Accuracy Adjustment</b>		
<<if row F. 2 = "no", use this section>>		
01	Standard deviation of nominal CFM 50 values above	
02	Percent uncertainty	
03	Accuracy level	
04	Extending factor	
05	Adjusted CFM50 (measured air leakage rate)	
<<if row F. 2 = "yes", use next two lines>>		
06	Corrected CFM50 (from software)	
07	Percent uncertainty @ 95% confidence level (from software)	

<b>I. Additional Requirements For Compliance</b>		
01	Open all interior doors and access including those to closets and those between a conditioned basement and attic.	
02	HVAC Supply and return register dampers shall be fully open.	
03	Temporarily sealing of combustion flues and intermittent exhaust fans are not allowed. Some examples are: combustion flues, fresh air intakes, dryer vents, bathroom and kitchen exhaust vents and fire place.	
04	Continuously operated ventilation devices like energy recovery ventilators may be sealed.	
05	Multifamily – Each dwelling unit must be tested individually and shown to meet the leakage requirements. Pressurization of the adjacent dwelling units while conducting this test is not allowed.	
<b>The responsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.</b>		



CERTIFICATE OF INSTALLATION		CF2R-MCH-24-H
Building Leakage Worksheet		(Page 3 of 3)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City	Zip Code

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

Documentation Author Name:	Documentation Author Signature:
Documentation Author Company Name:	Date Signed:
Address:	CEA/HERS 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:

- The information provided on this Certificate of Installation is true and correct.
- I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement (responsible builder/installer), otherwise I am an authorized representative of the responsible builder/installer.
- The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations, and the installation conforms to the requirements given on the plans and specifications approved by the enforcement agency.
- I understand that a HERS rater will check the installation to verify compliance, and that if such checking identifies defects; I am required to take corrective action at my expense. I understand that Energy Commission and HERS Provider representatives will also perform quality assurance checking of installations, including those approved as part of a sample group but not checked by a HERS rater, and if those installations fail to meet the requirements of such quality assurance checking, the required corrective action and additional checking/testing of other installations in that HERS sample group will be performed at my expense.
- I reviewed a copy of the Certificate of Compliance approved by the enforcement agency that identifies the specific requirements for the scope of construction or installation identified on this Certificate of Installation, and I have ensured that the requirements that apply to the construction or installation have been met.
- I will ensure that a registered copy of this Certificate of Installation shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a registered copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Builder/Installer Name:	Responsible Builder/Installer Signature:	
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)	Position With Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone	Date Signed:
Third Party Quality Control Program (TPQCP) Status:	Name of TPQCP (if applicable):	

Registration Number:

Registration Date/Time:

HERS Provider:

CA Building Energy Efficiency Standards - 2013 Residential Compliance

June 2014

**Instructions for MCH24**

**Section A. Building Air Leakage – General Information**

1. Select the appropriate test procedure. This selection will determine which version of this document will be used (a, b, c, d, or e) and therefore which data must be collected. Note that single-point tests can only be used under certain conditions. Note that newer manometers have automatic functions for compensating for baseline (automatic baseline) and compensating for house pressures other than the target (@50 Pa). It is preferable to use these, when available, however if these automatic functions are to be used, they must be used for BOTH automatic baseline and pressure compensation. Note that when the Total Ventilation Rate Method is used infiltration must be measured twice, once using under pressurization and once under depressurization. The MCH-27 (Ventilation) will use the average of those two measurements.
2. Enter the indoor temperature measured at the time that the building air leakage test was performed.
3. Enter the outdoor temperature measured at the time that the building air leakage test was performed.
4. Provide a brief description of the location where the blower door was installed for the test. Examples: “front entry door on west side of house”, “door between house and garage”, “large window in family room”.
5. Enter the building elevation use the value for the closest city found in Joint Appendix JA2.2. Only elevations higher than 5000 feet require an adjustment to the calculations.
6. This number is automatically pulled from the performance approach Certificate of Compliance. It is used to calculate air changes.
7. Enter the date that the building leakage test data was collected.

**Section B. Diagnostic Equipment Information**

1. Enter the number of manometers used to measure the home pressurization. If more than one system is used, the fan flow numbers need to be manually added together, unless blower door software is used that will accommodate multiple fan systems running simultaneously.
2. Enter the make (brand) of the manometer used to collect the building air leakage data. Examples: Retrotec, Energy Conservatory.
3. Enter the model of the manometer used to collect the building air leakage data. Examples: DM-2 Mark II, DG700.
4. Enter the serial number of the manometer used to collect the building air leakage data.
5. Enter the most recent date that the manometer was calibrated by following manufacturer’s calibration specifications.
6. This field is automatically filled. If the calibration date was more than 12 months prior to the test date entered in Row A.8, above, an error will appear.
7. Enter the number of blower door fan systems required to run simultaneously to pressurize the home for the building air leakage test. If more than one system is used, the fan flow numbers need to be manually added together, unless blower door software is used that will accommodate multiple fan systems running simultaneously.
8. Enter the make (brand) of the fan used to collect the building air leakage data. Examples: Retrotec, Energy Conservatory.
9. Enter the model of the fan used to collect the building air leakage data. Examples: US1000, Q46, BD3, BD4.
10. Enter the serial number of the fan used to collect the building air leakage data.
11. Enter the fan configuration shown on the meter. This is sometimes referred to as “range configuration”, “CONFIG” or “rings”. Examples: Open, A, B, C8.

**Section C. Envelope Leakage (MCH24e) - Depressurization**

1. Enter the time average period used on the manometer during the DEPRESSURIZATION test. Must be at least 10 seconds.
2. This version of the MCH-24 can be used with an ASTM E779-10 compliant software, typically provided by the blower door manufacturer. Confirm with the software vendor that it is compliant.
3. Enter five to nine Induced Building Pressure numbers straight from the manometer. All blower door induced pressures for the depressurization tests are to be negative relative to outside.
4. Enter five to nine Nominal CFM50 values from the manometer that corresponds to the Induced Building Pressure values.
5. This field is automatically calculated when using the online form. It is the average of the Nominal CFM50 values for the 5-9 repeated single point tests.

**Section D. Altitude and Temperature Correction**

1. This field is automatically calculated when using the online form. The equation used to calculate this value in the field equals:
  - a. If the elevation less than or equal to 5,000 ft, the altitude correction factor is 1 (no adjustment).
  - b. If the elevation is greater than 5,000 ft, the altitude correction equation equals  $1 + (0.000006 * \text{elevation in feet})$
2. Enter the temperature correction factor from Table RA3.8-2 or RA3.8-3 using the indoor and outdoor temperatures entered in Section A.

**Table RA3.8-2 Temperature Correction Factors for Depressurization Testing- Calculated according to ASTM E779-10**

		Inside Temperature (F)								
		50	55	60	65	70	75	80	85	90
Outside Temp (F)	-20	1.062	1.072	1.081	1.090	1.099	1.108	1.117	1.127	1.136
	-15	1.056	1.066	1.075	1.084	1.093	1.102	1.111	1.120	1.129
	-10	1.051	1.060	1.069	1.078	1.087	1.096	1.105	1.114	1.123
	-5	1.045	1.054	1.063	1.072	1.081	1.090	1.099	1.108	1.117
	0	1.039	1.048	1.057	1.066	1.075	1.084	1.093	1.102	1.111
	5	1.033	1.042	1.051	1.060	1.069	1.078	1.087	1.096	1.105

<b>10</b>	1.028	1.037	1.046	1.055	1.064	1.072	1.081	1.090	1.099
<b>15</b>	1.023	1.031	1.040	1.049	1.058	1.067	1.076	1.084	1.093
<b>20</b>	1.017	1.026	1.035	1.044	1.052	1.061	1.070	1.079	1.087
<b>25</b>	1.012	1.021	1.029	1.038	1.047	1.056	1.064	1.073	1.082
<b>30</b>	1.007	1.015	1.024	1.033	1.041	1.050	1.059	1.067	1.076
<b>35</b>	1.002	1.010	1.019	1.028	1.036	1.045	1.054	1.062	1.071
<b>40</b>	0.997	1.005	1.014	1.023	1.031	1.040	1.048	1.057	1.065
<b>45</b>	0.992	1.000	1.009	1.017	1.026	1.035	1.043	1.051	1.060
<b>50</b>	0.987	0.995	1.004	1.012	1.021	1.029	1.038	1.046	1.055
<b>55</b>	0.982	0.990	0.999	1.008	1.016	1.024	1.033	1.041	1.050
<b>60</b>	0.997	0.986	0.994	1.003	1.011	1.019	1.028	1.036	1.045
<b>65</b>	0.973	0.981	0.989	0.998	1.006	1.015	1.023	1.031	1.040
<b>70</b>	0.968	0.976	0.985	0.993	1.001	1.010	1.018	1.026	1.035
<b>75</b>	0.963	0.972	0.980	0.988	0.997	1.005	1.013	1.022	1.030
<b>80</b>	0.959	0.967	0.976	0.984	0.992	1.000	1.009	1.017	1.025
<b>85</b>	0.955	0.963	0.971	0.979	0.988	0.996	1.004	1.012	1.020
<b>90</b>	0.950	0.958	0.967	0.975	0.983	0.991	0.999	1.008	1.016
<b>95</b>	0.946	0.954	0.962	0.970	0.979	0.987	0.995	1.003	1.011
<b>100</b>	0.942	0.950	0.958	0.966	0.970	0.982	0.990	0.998	1.007
<b>105</b>	0.938	0.946	0.954	0.962	0.970	0.978	0.986	0.994	1.002
<b>110</b>	0.933	0.942	0.950	0.952	0.966	0.974	0.982	0.990	0.998

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**Table RA3.8-3 Temperature Correction Factors for Pressurization Testing- Calculated according to ASTM E779-10**

		Inside Temperature (F)								
		50	55	60	65	70	75	80	85	90
Outside Temp (F)	-20	0.865	0.861	0.857	0.853	0.849	0.845	0.841	0.837	0.833
	-15	0.874	0.870	0.866	0.862	0.858	0.854	0.850	0.846	0.842
	-10	0.883	0.879	0.874	0.870	0.866	0.862	0.858	0.854	0.850
	-5	0.892	0.887	0.883	0.879	0.875	0.871	0.867	0.863	0.859
	0	0.900	0.896	0.892	0.887	0.883	0.879	0.875	0.871	0.867
	5	0.909	0.905	0.900	0.896	0.892	0.888	0.883	0.879	0.875
	10	0.918	0.913	0.909	0.905	0.900	0.896	0.892	0.888	0.884
	15	0.927	0.922	0.918	0.913	0.909	0.905	0.900	0.896	0.892
	20	0.935	0.931	0.926	0.922	0.917	0.913	0.909	0.905	0.900
	25	0.944	0.939	0.935	0.930	0.926	0.922	0.917	0.913	0.909
	30	0.952	0.948	0.943	0.939	0.934	0.930	0.926	0.921	0.917
	35	0.961	0.956	0.952	0.947	0.943	0.938	0.934	0.930	0.926
	40	0.970	0.965	0.960	0.956	0.951	0.947	0.942	0.938	0.934
	45	0.978	0.974	0.961	0.964	0.960	0.955	0.951	0.946	0.942
	50	0.987	0.982	0.977	0.973	0.968	0.963	0.959	0.955	0.950
	55	0.995	0.990	0.986	0.981	0.976	0.972	0.967	0.963	0.958
	60	1.004	0.999	0.994	0.998	0.985	0.980	0.976	0.971	0.967
	65	1.012	1.008	1.003	0.998	0.993	0.988	0.984	0.979	0.975
	70	1.021	1.016	1.011	1.006	1.001	0.997	0.992	0.988	0.983
	75	1.029	1.024	1.019	1.015	1.010	1.005	1.000	0.996	0.991
	80	1.038	1.033	1.028	1.023	1.018	1.013	1.009	1.004	0.999
85	1.046	1.041	1.036	1.031	1.026	1.022	1.017	1.012	1.008	
90	1.055	1.050	1.045	1.040	1.035	1.030	1.025	1.020	1.016	
95	1.063	1.058	1.053	1.048	1.043	1.038	1.033	1.028	1.024	
100	1.072	1.066	1.061	1.056	1.051	1.046	1.041	1.037	1.032	
105	1.080	1.075	1.070	1.064	1.059	1.054	1.050	1.045	1.040	
110	1.088	1.083	1.078	1.073	1.068	1.063	1.058	1.053	1.048	

- This field is automatically calculated when using the online form. The Corrected CFM50 is the Nominal CFM50 from Section C multiplied times the Altitude and Temperature Correction Factors.

**Section E. Accuracy Adjustment (If Row C.2 = No)**

1. This field is automatically calculated when using the online form. It is the standard deviation of the Nominal CFM50 values from the 5 to 9 repeated single point tests
2. This field is automatically calculated when using the online form. It is the percent uncertainty and the equation used to calculate this value in the field equals  $\{[(C.1/\text{square root } N \text{ or the number of tests}) \times t\text{-statistic look up from table RA 3.8-1}]/D.3 \text{ corrected CFM50}\} = \text{percent uncertainty}$

**Table 3.8-1 Precision Uncertainty: Values of t-statistic**

Number of Readings	t-statistic
5	2.78
6	2.57
7	2.45
8	2.37
9	2.31

3. This field is automatically calculated when using the online form. The equation used to calculate this value in the field equals:
  - a. If the percent uncertainty in E.2  $\leq 10$ , then enter “standard” as accuracy level in box E. 3
  - b. If the percent uncertainty in E.2  $> 10$ , then enter “reduced” as accuracy level in box E. 3
4. This field is automatically calculated when using the online form. The equation used to calculate this value in the field equals:
  - a. If the accuracy level E.3 = Standard, then enter 1 as extending factor in box E.4
  - b. If the accuracy level E.3 = Reduced, extending factor equation equals  $1+(E.2/100)$
5. This field is automatically calculated when using the online form. The equation used to calculate this value in the field equals the  $D.3 * E.4 = \text{Adjusted CFM50}$

**Section E. Accuracy Adjustment (If Row C.2 = Yes)**

6. Enter the corrected CFM50 from manometer software.
7. Enter the percent uncertainty from manometer software.

**Section F. Envelope Leakage (MCH24d) - Pressurization**

1. Enter the time average period used on the manometer during the PRESSURIZATION test. Must be at least 10 seconds.
2. This version of the MCH-24 can be used with an ASTM E779-10 compliant software, typically provided by the blower door manufacturer. Confirm with the software vendor that it is compliant.
3. Enter five to nine Induced Building Pressure numbers straight from the manometer. All blower door induced pressures for the pressurization tests are to be positive relative to outside.
4. Enter five to nine Nominal CFM50 values from the manometer that correspond to the Induced Building Pressure values.
5. This field is automatically calculated when using the online form. It is the average of the Nominal CFM50 values for the 5-9 repeated single point tests.

**Section G. Altitude and Temperature Correction**

1. This field is automatically calculated when using the online form. The equation used to calculate this value in the field equals:
  - c. If the elevation less than or equal to 5,000 ft, the altitude correction factor is 1 (no adjustment).
  - d. If the elevation is greater than 5,000 ft, the altitude correction equation equals  $1 + (0.000006 * \text{elevation in feet})$
2. Enter the temperature correction factor from Table RA3.8-2 or RA3.8-3 using the indoor and outdoor temperatures entered in Section A.

**Table RA3.8-2 Temperature Correction Factors for Depressurization Testing- Calculated according to ASTM E779-10**

Outside Temp (F)	Inside Temperature (F)									
	50	55	60	65	70	75	80	85	90	
-20	1.062	1.072	1.081	1.090	1.099	1.108	1.117	1.127	1.136	
-15	1.056	1.066	1.075	1.084	1.093	1.102	1.111	1.120	1.129	
-10	1.051	1.060	1.069	1.078	1.087	1.096	1.105	1.114	1.123	
-5	1.045	1.054	1.063	1.072	1.081	1.090	1.099	1.108	1.117	
0	1.039	1.048	1.057	1.066	1.075	1.084	1.093	1.102	1.111	
5	1.033	1.042	1.051	1.060	1.069	1.078	1.087	1.096	1.105	
10	1.028	1.037	1.046	1.055	1.064	1.072	1.081	1.090	1.099	
15	1.023	1.031	1.040	1.049	1.058	1.067	1.076	1.084	1.093	
20	1.017	1.026	1.035	1.044	1.052	1.061	1.070	1.079	1.087	
25	1.012	1.021	1.029	1.038	1.047	1.056	1.064	1.073	1.082	
30	1.007	1.015	1.024	1.033	1.041	1.050	1.059	1.067	1.076	
35	1.002	1.010	1.019	1.028	1.036	1.045	1.054	1.062	1.071	
40	0.997	1.005	1.014	1.023	1.031	1.040	1.048	1.057	1.065	
45	0.992	1.000	1.009	1.017	1.026	1.035	1.043	1.051	1.060	
50	0.987	0.995	1.004	1.012	1.021	1.029	1.038	1.046	1.055	
55	0.982	0.990	0.999	1.008	1.016	1.024	1.033	1.041	1.050	

<b>60</b>	0.997	0.986	0.994	1.003	1.011	1.019	1.028	1.036	1.045
<b>65</b>	0.973	0.981	0.989	0.998	1.006	1.015	1.023	1.031	1.040
<b>70</b>	0.968	0.976	0.985	0.993	1.001	1.010	1.018	1.026	1.035
<b>75</b>	0.963	0.972	0.980	0.988	0.997	1.005	1.013	1.022	1.030
<b>80</b>	0.959	0.967	0.976	0.984	0.992	1.000	1.009	1.017	1.025
<b>85</b>	0.955	0.963	0.971	0.979	0.988	0.996	1.004	1.012	1.020
<b>90</b>	0.950	0.958	0.967	0.975	0.983	0.991	0.999	1.008	1.016
<b>95</b>	0.946	0.954	0.962	0.970	0.979	0.987	0.995	1.003	1.011
<b>100</b>	0.942	0.950	0.958	0.966	0.970	0.982	0.990	0.998	1.007
<b>105</b>	0.938	0.946	0.954	0.962	0.970	0.978	0.986	0.994	1.002
<b>110</b>	0.933	0.942	0.950	0.952	0.966	0.974	0.982	0.990	0.998

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**Table RA3.8-3 Temperature Correction Factors for Pressurization Testing- Calculated according to ASTM E779-10**

Outside Temp (F)	Inside Temperature (F)									
	50	55	60	65	70	75	80	85	90	
-20	0.865	0.861	0.857	0.853	0.849	0.845	0.841	0.837	0.833	
-15	0.874	0.870	0.866	0.862	0.858	0.854	0.850	0.846	0.842	
-10	0.883	0.879	0.874	0.870	0.866	0.862	0.858	0.854	0.850	
-5	0.892	0.887	0.883	0.879	0.875	0.871	0.867	0.863	0.859	
0	0.900	0.896	0.892	0.887	0.883	0.879	0.875	0.871	0.867	
5	0.909	0.905	0.900	0.896	0.892	0.888	0.883	0.879	0.875	
10	0.918	0.913	0.909	0.905	0.900	0.896	0.892	0.888	0.884	
15	0.927	0.922	0.918	0.913	0.909	0.905	0.900	0.896	0.892	
20	0.935	0.931	0.926	0.922	0.917	0.913	0.909	0.905	0.900	
25	0.944	0.939	0.935	0.930	0.926	0.922	0.917	0.913	0.909	
30	0.952	0.948	0.943	0.939	0.934	0.930	0.926	0.921	0.917	
35	0.961	0.956	0.952	0.947	0.943	0.938	0.934	0.930	0.926	
40	0.970	0.965	0.960	0.956	0.951	0.947	0.942	0.938	0.934	
45	0.978	0.974	0.969	0.964	0.960	0.955	0.951	0.946	0.942	
50	0.987	0.982	0.977	0.973	0.968	0.963	0.959	0.955	0.950	
55	0.995	0.990	0.986	0.981	0.976	0.972	0.967	0.963	0.958	
60	1.004	0.999	0.994	0.989	0.985	0.980	0.976	0.971	0.967	
65	1.012	1.008	1.003	0.998	0.993	0.988	0.984	0.979	0.975	
70	1.021	1.016	1.011	1.006	1.001	0.997	0.992	0.988	0.983	
75	1.029	1.024	1.019	1.015	1.010	1.005	1.000	0.996	0.991	
80	1.038	1.033	1.028	1.023	1.018	1.013	1.009	1.004	0.999	
85	1.046	1.041	1.036	1.031	1.026	1.022	1.017	1.012	1.008	
90	1.055	1.050	1.045	1.040	1.035	1.030	1.025	1.020	1.016	
95	1.063	1.058	1.053	1.048	1.043	1.038	1.033	1.028	1.024	
100	1.072	1.066	1.061	1.056	1.051	1.046	1.041	1.037	1.032	
105	1.080	1.075	1.070	1.064	1.059	1.054	1.050	1.045	1.040	
110	1.088	1.083	1.078	1.073	1.068	1.063	1.058	1.053	1.048	

- This field is automatically calculated when using the online form. The Corrected CFM50 is the Nominal CFM50 from Section F multiplied times the Altitude and Temperature Correction Factors.

**Section H. Accuracy Adjustment (If Row C.2 = No)**

- This field is automatically calculated when using the online form. It is the standard deviation of the Nominal CFM50 values from the 5 to 9 repeated single point tests
- This field is automatically calculated when using the online form. It is the percent uncertainty and the equation used to calculate this value in the field equals  $\{[(C.1/ \text{square root } N \text{ or the number of tests}) \times t\text{-statistic look up from table RA 3.8-1}]/G.3 \text{ corrected CFM50}\} = \text{percent uncertainty}$

**Table 3.8-1 Precision Uncertainty: Values of t-statistic**

Number of Readings	t-statistic
5	2.78
6	2.57
7	2.45
8	2.37
9	2.31

- This field is automatically calculated when using the online form. The equation used to calculate this value in the field equals:
  - If the percent uncertainty in  $\leq 10$ , then enter “standard” as accuracy level
  - If the percent uncertainty in  $> 10$ , then enter “reduced” as accuracy level
- This field is automatically calculated when using the online form. The equation used to calculate this value in the field equals:
  - If the accuracy level = Standard, then enter 1 as extending factor in box E.4
  - If the accuracy level = Reduced, extending factor equation equals  $1+(H.2/100)$
- This field is automatically calculated when using the online form. The equation used to calculate this value in the field equals the G.3 \* H.4 = Adjusted CFM50

**Section H. Accuracy Adjustment (If Row C.2 = Yes)**

- Enter the corrected CFM50 from manometer software.
- Enter the percent uncertainty from manometer software.

**Section I. Additional Requirements for Compliance**

- This statement must be true (or not applicable) for the test to conform to the protocols.
- This statement must be true (or not applicable) for the test to conform to the protocols.
- This statement must be true (or not applicable) for the test to conform to the protocols.

4. This statement must be true (or not applicable) for the test to conform to the protocols.
5. This statement must be true (or not applicable) for the test to conform to the protocols.

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HERS provider