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| **A. VCHP System Information**  Procedures for verification of VCHP compliance credit eligibility are described on the residential special case compliance webpage at the following URL: <https://ww2.energy.ca.gov/title24/2008standards/special_case_appliance/>. Each VCHP system requiring verification shall use a separate compliance document. | | | |
| 01 | SC System ID/Name from CF1R |  | |
| 02 | SC System Description of Area Served |  | |
| 03 | Conditioned Floor Area Served by the System (ft2) |  | |
| 04 | Status: Refrigerant charge verification from MCH-25 |  | |
| 05 | Verification: Is conditioned airflow supplied to all habitable rooms in accordance with the procedure in SC3.1.4.1.7? |  | |
| Notes: | | |

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| **B. VCHP Indoor Unit Information**  Ducted indoor units are required to be certified to the Energy Commission as low static systems, and included in the list of certified indoor units published on the Energy Commission website at the following URL: <https://www.energy.ca.gov/rules-and-regulations/building-energy-efficiency/manufacturer-certification-building-equipment>. | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| Indoor Unit Name or Description of Area Served | Installed Indoor Unit Type | Indoor Unit Duct Status | Conditioned Floor Area Served By The Indoor Unit (ft2) | Number of Air Filter Devices on Indoor Unit | Indoor Unit Required Minimum System Airflow Rate  (cfm) | Status:  Airflow Rate Verification from MCH-23 | Is Field Verification of Default  Non-Continuous Fan Operation Required? | Verification:  Is Ducted Low Static Indoor Unit  Certified to CEC? |
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| **C. Verification: Ducted Indoor Units Located Entirely in Directly Conditioned Space - RA3.1.4.3.8**  Ducted indoor units shall be verified in accordance with the Verified Low Leakage Ducts in Conditioned Space procedure in Section RA3.1.4.3.8. | | | |
| 01 | 02 | 03 | 04 |
| Indoor Unit Name or Description of Area Served | A Visual Inspection Shall Confirm the Space Conditioning Distribution System Location | Measured Duct Leakage to Outside (cfm) Using RA3.1.4.3.4 | Compliance Statement: |
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| **D. Verification: Ductless Indoor Units Located Entirely in Directly Conditioned Space - SC3.1.4.1.8**  A visual inspection shall confirm that ductless indoor units are located entirely in conditioned space in accordance with the procedures of SC3.1.4.1.8. | | |
| 01 | 02 | 03 |
| Indoor Unit Name or Description of Area Served | Indoor Unit Installation Location Verification | Compliance Statement: |
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| **E. Verification: Wall Mounted Thermostats - SC3.4.5**  Field verification according to the procedure in SC3.4.5 shall confirm that VCHP space conditioning zones that are greater than 150 ft2, are controlled by a permanently installed wall-mounted thermostat. | | | | |
| 01 | 02 | 03 | 04 | 05 |
| Indoor Unit Name or Description of Area Served | Is a Wall-mounted Thermostat Installed in the Zone Served by the Indoor Unit? | Does the Thermostat Control the Zone's Indoor Unit? | Is the Thermostat Mounted Permanently to the Wall? | Compliance Statement: |
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| Notes: |

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| **F. Verification: Non-Continuous Fan Operation - SC3.4.6**  If the certificate of compliance indicates non-continuous indoor unit fan operation was specified for compliance credit, then the system shall be field verified in accordance with the procedures in SC3.4.6 to confirm that the installed system's indoor unit + outdoor unit combination does not operate the fan continuously when the system thermostat is not calling for conditioning. | | | | |
| 01 | 02 | 03 | 04 | 05 |
| Indoor Unit Name or Description of Area Served | Is Non-Continuous Default Fan Operation Shown in CEC Certification Listings? | Does Indoor Unit Air Distribution Fan Operate When There Is No Call For Heating? | Does Indoor Unit Air Distribution Fan Operate When There Is No Call For Cooling? | Compliance Statement: |
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| **G. Verification: Installed Air Filter Sizing and Pressure Drop - SC3.1.4.7 and SC3.1.4.8**  Nominal 2-inch or greater depth air filters shall be sized by the system designer to accommodate a maximum allowable clean-filter pressure drop of 0.1 inch w.c at the air filter's design airflow rate as verified according to the procedures in SC3.1.4.8. Nominal one-inch minimum depth air filters shall be allowed if the filter face area is sized based on a maximum face velocity of 150 ft per minute at the air filter design airflow rate according to the procedures in SC3.1.4.7. In order to inform the occupant of the airflow and clean filter pressure drop performance required for replacement air filters, the installer shall place a sticker in or near the filter grille displaying the air filter design airflow rate and the maximum allowed clean filter pressure drop at the design airflow rate as required by Standards Section 150.0(m)12Biv. | | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Indoor Unit Name or Description of Area Served | Air Filter Name or Description of Location | Air Filter Device Type | Design Airflow Rate  for Air Filter Device  (cfm) | Air Filter Nominal Depth  (inch) | Air Filter Nominal Length  (inch) | Air Filter Nominal Width  (inch) | Air Filter  Calculated Nominal Face Area  (inch2) | Air Filter Required  Minimum Face Area  (inch2) | Face Area Compliance | Air Filter Rated Pressure Drop at Design Airflow Rate (inch W.C.) | Air Filter Pressure Drop Compliance |
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| **H. VCHP System Compliance Statement** | |
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| **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 either: a) a responsible person 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, or b) I am an authorized representative of the responsible person and attest to the declarations in this statement on the responsible person’s behalf.  1. 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 Certificate of Compliance, plans, and specifications approved by the enforcement agency. 2. I understand that a HERS rater will check the installation to verify compliance and if such checking determines the installation fails to comply, I am required to offer any necessary corrective action at no charge to the building owner. 3. 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): | |

**CF2R-MCH-33-H User Instructions**

**Section A. VCHP System Information**

1. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
2. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
3. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
4. This field is filled out automatically. It is referenced from the CF2R-MCH-25 which must be completed prior to this document.
5. Perform the verification specified by RSC3.1.4.1.7 and select the value that describes the result of the verification.

**Section B. VCHP Indoor Unit Information**

1. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
2. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
3. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
4. Enter the conditioned floor area served by the indoor unit - a value in ft2.
5. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
6. This field is filled out automatically. It is referenced from the CF2R-MCH-23 which must be completed prior to this document.
7. This field is filled out automatically. It is referenced from the CF2R-MCH-23 which must be completed prior to this document.
8. This field is filled out automatically. It is referenced from the Certificate of Compliance which must be completed prior to this document.
9. Navigate to the URL for the Manufacturer certification listings and determine whether the installed system is included in the CEC listing, then select the value that describes the result of the verification.

**Section C. Verification: Ducted Indoor Units Located Entirely in Directly Conditioned Space - RA3.1.4.3.8**

1. This field is filled out automatically. It is referenced from a different section of this document.
2. Select the statement that best describes the location of the ducted distribution system.
3. Enter the leakage to outside airflow determined from the RA3.1.4.3.8
4. This field is filled out automatically

**Section D. Verification: Ductless Indoor Units Located Entirely in Directly Conditioned Space - SC3.1.4.1.8**

1. This field is filled out automatically. It is referenced from a different section of this document.
2. Select the statement that best describes the indoor unit installation location as determined according to SC3.1.4.1.8.
3. This field is filled out automatically

**Section E. Verification: Wall Mounted Thermostats - SC3.4.5**

1. This field is filled out automatically. It is referenced from a different section of this document.
2. Answer yes or no to the question: Is a wall-mounted thermostat installed in the zone served by the indoor unit?
3. Answer yes or no to the question: Does the thermostat control the zone's indoor unit?
4. Answer yes or no to the question: Is the thermostat mounted permanently to the wall?
5. This field is filled out automatically

**Section F. Verification: Non-Continuous Fan Operation SC3.4.6**

1. This field is filled out automatically. It is referenced from a different section of this document.
2. Select the best response to the question: Is non-continuous default fan operation shown in CEC certification listings?
3. Select the best response to the question: Does indoor unit air distribution fan operate when there is no call for heating?
4. Select the best response to the question: Does indoor unit air distribution fan operate when there is no call for cooling?
5. This field is filled out automatically

**Section G. Verification: Installed Air Filter Sizing and Pressure Drop - SC3.1.4.7 and SC3.1.4.8**

1. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
2. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
3. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
4. This field is filled out automatically. It is referenced from another section on this document, or from the CF2R-MCH-01 which must be completed prior to this document.
5. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
6. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
7. This field is filled out automatically. It is referenced from the CF2R-MCH-01 which must be completed prior to this document.
8. This field is filled out automatically by calculating the product of air filter length and air filter width.
9. This field is filled out automatically based on the depth of the filter.
10. This field is filled out automatically
11. Input the pressure drop at the design airflow rate from the performance data information published on the air filter label.
12. This field is filled out automatically

**Section H. VCHP System Compliance Statement**

1. This field is filled out automatically.

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| **A. VCHP System Information**  Procedures for verification of VCHP compliance credit eligibility are described on the residential special case compliance webpage at the following URL: <https://ww2.energy.ca.gov/title24/2008standards/special_case_appliance/>. Each VCHP system requiring verification shall use a separate compliance document. | | |
| 01 | SC System ID/Name from CF1R | <<auto filled text: referenced from CF2R-MCH-01>> |
| 02 | SC System Description of Area Served | <<auto filled text: referenced from CF2R-MCH-01>> |
| 03 | Conditioned Floor Area Served by the System (ft2) | <<autofilled text: referenced from CF2R-MCH-01a field D03, or MCH-01d field D03>> |
| 04 | Status: Refrigerant charge verification from MCH-25 | <<if the system has a registered CF2R-MCH-25 that indicates compliance with the refrigerant charge verification requirement, then text result=[System Complies with Refrigerant Charge verification Requirements]; else text result=[System does not comply. A registered MCH-25 for this system is required.] |
| 05 | Verification: Is conditioned airflow supplied to all habitable rooms in accordance with the procedure in SC3.1.4.1.7? | <<user select from following two text values:  1:[Indoor unit complies according to the criteria in SC3.1.4.1.7]  2:[Indoor unit does not comply] |

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| **B. VCHP Indoor Unit Information**  Ducted indoor units are required to be certified to the Energy Commission as low static systems, and included in the list of certified indoor units published on the Energy Commission website at the following URL: <https://www.energy.ca.gov/rules-and-regulations/building-energy-efficiency/manufacturer-certification-building-equipment>.  <<provide one row of data for each of the indoor units listed on the MCH-01 that are associated with the SC system ID and area served data in A01 and A02. For indoor unit information refer to MCH-01a Section G, or J; otherwise refer to MCH-01d Section H, K, L>> | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| Indoor Unit Name or Description of Area Served | Installed Indoor Unit Type | Indoor Unit Duct Status | Conditioned Floor Area Served By The Indoor Unit (ft2) | Number of Air Filter Devices on Indoor Unit | Indoor Unit Required Minimum System Airflow Rate  (cfm) | Status:  Airflow Rate Verification from MCH-23 | Is Field Verification of Default  Non-Continuous Fan Operation Required? | Verification:  Is Ducted Low Static Indoor Unit  Certified to CEC? |
| << auto filled text: referenced from MCH-01>>  note: reference applicable values as follows:  \*\*G03 on MCH-01a for split systems,  \*\*H03 on MCH-01d for split systems,  \*\*J03 on MCH-01a for packaged systems,  \*\*either K03 or L03 on MCH-01d for packaged systems | << auto filled text: referenced from MCH-01 if a value is available either in G04 on MCH-01a or H04 on MCH-01d,  else result=n/a>> | << auto filled text: referenced from MCH-01 if a value is available either in G05 on MCH-01a or H05 on MCH-01d,  else result=n/a  allowed values=  \*Ductless  \*Ducted >10ft length  \*Ducted ≤10ft length>> | <<user input numeric value xxxx.x  \*Require the sum of the values in this column to be equal to the value in A03 as condition of completion of this doc>> | <<autofilled text: referenced from one of the following locations:  \*\* MCH-01a field J11  \*\* MCH-01d field L12>> | <<if B03=Ductless, then result=n/a,  else auto filled integer xxxx referenced from the CF2R-MCH-23:  \*\*MCH-23a field D02, \*\*MCH-23b field D02,  \*\*MCH-23e field D02  \*\*MCH-23f field D02  >> | <<**if** B03=Ductless, then result=n/a,  **elseif** the system has a registered CF2R-MCH-23 that indicates compliance with the minimum airflow rate requirement,  **then** text result=[System complies with the airflow rate verification requirements];  **else** text result= [System does not comply. A registered MCH-23 for this system is required.]>> | << if B03=Ductless, then result=n/a,  else if the CF1R-PRF indicates credit for [Certified Auto-Fan] operation was specified,  then text value=yes,  else text value=no>> | <<if B03=ductless,  then result=n/a,  else user select one of the following two text values:  \*[complies - indoor unit is certified low-static in the CEC listings]  \*[does not comply - indoor unit is not certified]>> |
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| Notes: |

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| **C. Verification: Ducted Indoor Units Located Entirely in Directly Conditioned Space - RA3.1.4.3.8**  Ducted indoor units shall be verified in accordance with the Verified Low Leakage Ducts in Conditioned Space procedure in Section RA3.1.4.3.8.  <<If there are no indoor units in B01, for which B03= one of the following two: 1:[Ducted >10ft length], 2:[Ducted ≤10ft length],  then display the section does not apply message;  else require one row of data for each indoor unit in B01 for which B03= one of the following two: 1:[Ducted >10ft length], 2:[Ducted ≤10ft length]>> | | | |
| 01 | 02 | 03 | 04 |
| Indoor Unit Name or Description of Area Served | A Visual Inspection Shall Confirm the Space Conditioning Distribution System Location | Measured Duct Leakage to Outside (cfm) Using RA3.1.4.3.4 | Compliance Statement: |
| << auto filled text: referenced from B01>> | <<user pick from list:  \*\*Entirely in conditioned space; or  \*\*Not entirely in conditioned space>> | <<user input, numeric xxx.x>> | <<if value in C03 is ≤ 25 cfm, and B02 = [Entirely in conditioned space]; then display text: [Complies], else display text: [Does Not Comply]>> |
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| Notes: |

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| **D. Verification: Ductless Indoor Units Located Entirely in Directly Conditioned Space - SC3.1.4.1.8**  A visual inspection shall confirm that ductless indoor units are located entirely in conditioned space in accordance with the procedures of SC3.1.4.1.8.  <<if there are no indoor units in B01 for which B03=ductless, then display the section does not apply message,  else require one row of data for each indoor unit in B01 for which B03=ductless>> | | |
| 01 | 02 | 03 |
| Indoor Unit Name or Description of Area Served | Indoor Unit Installation Location Verification | Compliance Statement: |
| << auto filled text: referenced from B01>> | <<user select one of the following 3 text values:  1:[Indoor unit mounted entirely on the surface of walls, ceilings, or floors],  2:[Indoor unit protrudes through the air barrier into unconditioned spaces],  3:[Visually confirmed: Indoor unit protrudes into indirectly conditioned spaces wholly inside both the thermal boundary and the air barrier of the dwelling]>> | << **if** D02=[Indoor unit mounted entirely on the surface of walls, ceilings, or floors],  **then** text value=[Complies]  **elseif** D02=[Indoor unit protrudes through the air barrier into unconditioned spaces],  **then** text value=[Does Not Comply];  **elseif** D02=[Visually confirmed: Indoor unit protrudes into indirectly conditioned spaces wholly inside both the thermal boundary and the air barrier of the dwelling],  **then** text value=[Complies]>> |
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| Notes: |

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| **E. Verification: Wall Mounted Thermostats - SC3.4.5**  Field verification according to the procedure in SC3.4.5 shall confirm that VCHP space conditioning zones that are greater than 150 ft2, are controlled by a permanently installed wall-mounted thermostat.  <<if there are no indoor units in B01 for which B04≥150, then display the section does not apply message,  else require one row of data for each indoor unit in B01 for which B04≥150>> | | | | |
| 01 | 02 | 03 | 04 | 05 |
| Indoor Unit Name or Description of Area Served | Is a Wall-mounted Thermostat Installed in the Zone Served by the Indoor Unit? | Does the Thermostat Control the Zone's Indoor Unit? | Is the Thermostat Mounted Permanently to the Wall? | Compliance Statement: |
| << auto filled text: referenced from B01>> | <<user select one of the following two:  \*yes  \*no>> | <<user select one of the following two:  \*yes  \*no>> | <<user select one of the following two:  \*yes  \*no>> | <<if the values in E02 and E03 and E04 all=yes, then text result in this field=[complies], else text value in this field=[Does Not Comply]>> |
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| Notes: |

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| **F. Verification: Non-Continuous Fan Operation - SC3.4.6**  If the certificate of compliance indicates non-continuous indoor unit fan operation was specified for compliance credit, then the system shall be field verified in accordance with the procedures in SC3.4.6 to confirm that the installed system's indoor unit + outdoor unit combination does not operate the fan continuously when the system thermostat is not calling for conditioning.  <<if there are no indoor units listed in B01 for which B08=yes, then display the section does not apply message,  else require one row of data for each indoor unit listed in B01 for which B08=yes>> | | | | |
| 01 | 02 | 03 | 04 | 05 |
| Indoor Unit Name or Description of Area Served | Is Non-Continuous Default Fan Operation Shown in CEC Certification Listings? | Does Indoor Unit Air Distribution Fan Operate When There Is No Call For Heating? | Does Indoor Unit Air Distribution Fan Operate When There Is No Call For Cooling? | Compliance Statement: |
| << auto filled text: referenced from B01>> | <<user select one of the following two:  \*\*[indoor unit+ outdoor unit combination is certified non-continuous in the CEC listings]  \*\*[not certified] | <<user select one of the following two text values:  \*\*[fan does not operate between calls for heating]  \*\*[fan operates continuously]>> | <<user select one of the following two text values:  \*\*[fan does not operate between calls for cooling]  \*\*[fan operates continuously]>> | <<if all of the following three conditions are true:  1: F02=[indoor unit+ outdoor unit combination is certified non-continuous in the CEC listings],  2: F03=[fan does not operate between calls for heating],  3: F04=[fan does not operate between calls for cooling],  then text result=[complies],  else text result=[does not comply]>> |
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| Notes: |

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| **G. Verification: Installed Air Filter Sizing and Pressure Drop - SC3.1.4.7 and SC3.1.4.8**  Nominal 2-inch or greater depth air filters shall be sized by the system designer to accommodate a maximum allowable clean-filter pressure drop of 0.1 inch w.c at the air filter's design airflow rate as verified according to the procedures in SC3.1.4.8. Nominal one-inch minimum depth air filters shall be allowed if the filter face area is sized based on a maximum face velocity of 150 ft per minute at the air filter design airflow rate according to the procedures in SC3.1.4.7. In order to inform the occupant of the airflow and clean filter pressure drop performance required for replacement air filters, the installer shall place a sticker in or near the filter grille displaying the air filter design airflow rate and the maximum allowed clean filter pressure drop at the design airflow rate as required by Standards Section 150.0(m)12Biv.  <<if all of the indoor units listed in B01 have a value in B03=ductless, then display the section does not apply message;  else require one row of data (each) for the quantity of air filter devices in B05 for each of the indoor units in B01 that have a value in B03≠ductless. | | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Indoor Unit Name or Description of Area Served | Air Filter Name or Description of Location | Air Filter Device Type | Design Airflow Rate  for Air Filter Device  (cfm) | Air Filter Nominal Depth  (inch) | Air Filter Nominal Length  (inch) | Air Filter Nominal Width  (inch) | Air Filter  Calculated Nominal Face Area  (inch2) | Air Filter Required  Minimum Face Area  (inch2) | Face Area Compliance | Air Filter Rated Pressure Drop at Design Airflow Rate (inch W.C.) | Air Filter Pressure Drop Compliance |
| <<auto filled from:  \*MCH-01a K03  \*MCH-01d M03>> | <<auto filled from:  \*MCH-01a K04  \*MCH-01d M04>> | <<auto filled from:  \*MCH-01a K05  \*MCH-01d M05>> | <<If B05=1,  then autofill value referenced in B06,  elseif B05>1,  then reference values from:  \*MCH-01a K06  \*MCH-01d M06  \*Require the sum of the values in this column for each indoor unit in G01 to be equal to the value in B06 as condition of completion of this doc>> | <<auto filled from:  \*MCH-01a K07  \*MCH-01d M07>> | <<auto filled from:  \*MCH-01a K08  \*MCH-01d M08>> | <<auto filled from:  \*MCH-01a K09  \*MCH-01d M09>> | <<calculated value= G06\*G07  >> | <<**if** G05=1,  **then** calculated value=(G04 ÷ 150) \* 144;  **else** display text result=[specified by system designer]>> | <<if value in G09= [specified by system designer],  then display text result=[specified by system designer];  elseif G08≥G09,  then text result in this field=[complies], else text result in this field=[Does Not Comply]>> | <<user enter numeric value 1.5≥x.xx≥0.01>> | <<if G11≤0.1,  then text result in this field=[complies], else text result in this field=[Does Not Comply] |
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| Notes: | | | | | | | | | | | |

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| **H. VCHP System Compliance Statement** | |
| 01 | <<**if** all of the following conditions are true:  A04=[System Complies with Refrigerant Charge verification Requirements]  A05=[Indoor unit complies according to the criteria in RX3.1.4.1.7]  B07=[System complies with the airflow rate verification requirements]  B09=[complies - indoor unit is certified low-static in the CEC listings  C04=[Complies]  E05=[Complies]  F07=[Complies]  G10≠[Does Not Comply]  G12=[Complies]  D03=[Complies]  **then** text result=[VCHP System Complies]  **else** text result= [VCHP System Does Not Comply] |