

CERTIFICATE OF INSTALLATION – USER INSTRUCTIONS	LMCI-PLB-22-H
HERS Verified Individual Dwelling Unit Hot Water System Distribution	(Page 1 of 4)

LMCI-PLB-22-H User Instructions

A. Design HERS Verified Dwelling Unit Water Heating Systems Information (other than HPWH)

This table reports features of the water heating system(s) other than **HPWH** system that were specified on the registered LMCC compliance document for this project. This section is for information/verification purposes only and requires no user input.

A2. Design HERS Verified Dwelling Unit HPWH System Information

This table reports the water heating system(s) that were specified on the registered LMCC compliance document for this project. This section is for information/verification purposes only and requires no user input.

B. Installed HERS Verified Dwelling Unit Water Heating Systems Information

This table reports features of the water heating system(s) other than HPWH systems that is being installed. Require one line for each installed water heater.

1. Dwelling Unit Name - Reference information from Table A.
2. Water Heating System ID or Name – Reference information from Table A.
3. Water Heating System Type – Reference information from Table A. The different kinds of water heating system type are DHW, or Combined Hydronic.
4. Water Heater Type – Reference information from Table A. The different kinds of water heaters are Large/Commercial Storage, Small/Consumer Storage, Residential-Duty Commercial Storage, Heat Pump, Boiler, Large/Commercial Instantaneous, Small/Consumer Instantaneous, Residential-Duty Commercial Instantaneous or Indirect.
5. # of Like (or Identical) Water Heaters in system – Reference information from Table A.
6. Fuel Type – Reference information from Table A. The different kinds of fuel types are heat pump, electric resistance, natural gas, and propane.
7. Rated Input Type – Reference information from Table A. For natural gas and propane, the input type is Btu/hr. For heat pump and electric resistance, the input type is kW.
8. Rated Input Value – User input. Numerical value of the rated input. Must be equal to or less than value indicated on the LMCC.
9. Central DHW System Distribution - Reference information from Table A.
10. Dwelling Unit DHW System Distribution Type - Reference information from Table A.
11. Compact Distribution - Reference information from Table A.
12. Drain Water Heat Recovery - Reference information from Table A.

B2. Installed HERS Verified Dwelling Unit HPWH System Information

This table reports the water heating system information that is being installed. Require one line for each installed water heater.

1. Dwelling Unit Name – Reference information from Table A2.
2. Water Heating System ID or Name – Reference information from Table A2.
3. Modeled Equipment Make and Model – User input must be equal to the value indicated on Table A2 as default and allow user to override with an equivalent system based on the simulated equipment in Table A2.
4. # of Like (or Identical) Water Heaters in System – Reference information from Table A2.
5. Tank Location – User input. Must be equal to value indicated in Table A2.

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6. Exterior Tank Insulation R-value – User input. Must be equal to or higher than value indicated in Table A2.
7. Dwelling Unit DHW System Distribution Type – Reference information from Table A2.
8. Compact Distribution – Reference information from Table A2.

C. Design HERS Verified Dwelling Unit Water Heating Efficiency Information

This table reports the water heating system features that were specified on the registered LMCC compliance document for this project. This section is for information/verification purposes only and requires no user input.

D. Installed HERS Verified Dwelling Unit Water Heating Efficiency Information

This table reports the water heating system information that is being installed. Require one line for each installed water heater.

1. Water Heating System ID or Name – Reference information from Table A.
2. Heating Efficiency Type – Reference information from Table C. Different efficiency types are Energy Factor, AFUE, UEF and Thermal Efficiency.
3. Heating Efficiency Value – User input must be equal to or higher efficiency than value indicated on the LMCC.
4. Standby Loss – User input. Must be equal to or less than value indicated in Table C. Value may be N/A if LMCC value is N/A.
5. Exterior Insulation R-Value – User input. Must be equal to or higher than value indicated in Table C. Value may be N/A if LMCC value is N/A.
6. Water Heater Storage Volume (gal) – User input. Value may be N/A if water heater type is instantaneous with zero storage.
7. Tank location – User input. Must be equal to system type indicated in Table C.

E. Installed Water Heater Manufacturer Information

This table reports the manufacturer information of the installed water heater(s). Require one line for each installed water heater

- 01 Water Heating System ID or Name – Reference information from LMCC.
- 02 Manufacturer – User input. Enter the name of the water heater manufacturer.
- 03 Model Number – User input. Enter the model number of the water heater.

F. Mandatory Measures for all Domestic Hot Water Distribution Systems

This table lists the requirements for all DHW systems. HERS rater must ensure all the requirements in this table are met.

G. HERS-Verified Compact Hot Water Distribution Expanded Credit and H. Compact Hot Water Distribution Basic

If performance compliance is used, this table lists the values used in the performance calculation and require no user input.

If prescriptive compliance is used, fill out this table.

1. Reference information from LMCC
2. Enter the master bath distance of furthest fixture to water heater in feet. For multiple water heaters, enter the distance to the closest water heater.

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3. Enter the kitchen distance from furthest fixture to water heater in feet. For multiple water heaters, enter the distance to the closest water heater.
4. Enter furthest third fixtures from fixture to Water Heater in feet. For multiple water heaters, enter the average of the furthest distance of each water heater.
5. Weighted Distance - Calculated value – no user input required.
6. Qualification Distance - Calculated value – no user input required.

I. HERS-Verified Drain Water Heat Recovery System

This table lists the requirements for all drain water heat recovery systems. HERS rater must ensure all the requirements in this table are met.

1. Reference information from LMCC.
2. Reference information from LMCC.03 Reference information from LMCC.
3. Reference information from LMCC.
4. Reference information from LMCC.
5. Drain Water Heat Recovery Manufacturer’s Name- Enter the name of the manufacturer.
6. Drain Water Heat Recovery Manufacturer’s Model Number – Enter the model number.
7. Rated Effectiveness – Enter the rated effectiveness of the DWHR device.
8. Installation Configuration – Enter type of configuration. Available options are: Equal flow, unequal to shower, and unequal to water heater
9. Percent of showers served by the DWHR device – Enter the percent of showers served by this DWHR device.
10. DWHR System Certified by CEC – Enter “Yes” if certified or else enter “No”.

J. HERS-Verified Pipe Insulation Credit Requirements

This table only applies to systems indicated as HERS-Verified Pipe Insulation Credit. In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

K. HERS-Verified Parallel Piping Requirements

This table only applies to systems indicated as HERS-Verified Parallel Piping. In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

L. Parallel Piping Requirements

This table only applies to systems indicated as Parallel Piping. In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

M. Point of Use Requirements

This table only applies to systems indicated as Point of Use In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

N. Mandatory Requirements for all Recirculation Systems

The requirements of this table apply to all recirculation systems listed below.

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O. Recirculation Non-Demand Controls Requirements

This table only applies to systems indicated as Recirculation Non-demand Controls. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

P. Demand Recirculation Manual Control/Sensor Control Requirements

This table only applies to systems indicated as Demand Recirculation Manual Control, Demand Recirculation Sensor Control, HERS-Verified Demand Recirculation Manual Control or HERS-Verified Demand Recirculation Sensor Control. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

Q. HERS-Verified Demand Recirculation Manual Control/Sensor Control Requirements

This table only applies to systems indicated as HERS-Verified Demand Recirculation Manual Control or HERS-Verified Demand Recirculation Sensor Control. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

Documentation Declaration Statements

1. The person who prepared the LMCI 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 for their name, company (if applicable), address, phone number, license number (if applicable), date and signature.