

CEC-LMCI-PLB-22-H

SAMPLE FORM – NOT VALID FOR SUBMISSION TO BUILDING DEPARTMENTS

CERTIFICATE OF INSTALLATION

Note: This table completed by HERS Registry.

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

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 specified on the registered LMCC compliance document for this project.

01	02	03	04	05	06	07	08	09	10	11	12
				# of Like			. 1		- Or		
	Water			(or			200	O .	Dwelling		
	Heating	Water		Identical)		0	20	- 1	Unit DHW		Drain
Dwelling	System	Heating	Water	Water		Rated	Rated	Central DHW	System		Water
Unit	ID or	System	Heater	Heaters in	Fuel	Input	Input	System	Distribution	Compact	Heat
Name	Name	Type	Type	System	Type	Type	Value	Distribution	Type	Distrib.	Recovery
					2	2		100			
					11.		.0.	0 1			

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.

01	02	03	04	05	06	07	08	09	10
Dwelling	Water	Modeled	# of Like	Tank	Exterior	Dwelling	Compact	Drain	Simulated
Unit	Heating	Equipment	(or	Location	Tank	Unit DHW	Distribution	Water	Equipment
Name	System	Make and	Identical)	/\	Insulation	System		Heat	Make and
	ID	Model	Water	11/2	R-value	Distribution		Recovery	Model
	or	. 0	Heaters	MA		Туре			
- 0	Name	210	in						
0.0		19	System						
	101.								

Registration Number: Registration Date/Time: **HERS Provider:** January 2022



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B. Installed HERS Verified Dwelling Unit Water Heating Systems Information (other than HPWH)

This table reports features of the water heating system other than **HPWH** systems installed in this project.

01	02	03	04	05	06	07	08	09	10	11	12
Dwellin g Unit Name	Water Heating System ID or Name	Water Heating System Type	Water Heate r Type	# of Like (or Identical) Water Heaters in System	Fuel Type	Rate d Inpu t Type	Rate d Input Valu e	Central DHW System Distributio n	Dwelling Unit DHW System Distributio n Type	Compa ct Distrib.	Drain Water Heat Recove
								11	0	1.7.	

B2. Installed HERS Verified Dwelling Unit HPWH System Information

This table reports the water heating system(s) installed in this project.

01	02	03	04	05	06	07	08	09
Dwelling Unit Name	Water Heating System ID or Name	Modeled Equipment Make and Model	# of Like (or Identical) Water Heaters in System	Tank Location	Exterior Tank Insulation R- value	Dwelling Unit DHW System Distribution Type	Compact Distribution	Drain Water Heat Recovery

C. Design HERS Verified Dwelling Unit Water Heating Efficiency Information

This table reports the water heater(s) efficiency features specified on the registered LMCC compliance document for this project. (Not needed for central systems)

01	02	03	04	05	06	07
. 4	10	2 3	1/2	0	Water	
Water Heating	Heating	Heating	Standby	Exterior	Heater	
System ID or	Efficiency	Efficiency	Loss	Insulation	Storage	
Name	Type	Value	(%)	R-Value	Volume (gal)	Tank Location
	1.					

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D. Installed HERS Verified Dwelling Unit Water Heating Efficiency Information

This table reports the water heater(s) efficiency features installed in this project. (Not needed for central systems)

01	02	03	04	05	06	07
Water Heating	Heating	Heating	Standby	Exterior	Water Heater	
System ID or	Efficiency	Efficiency	Loss	Insulation	Storage	
Name	Туре	Value	(%)	R-Value	Volume (gal)	Tank Location
						0

E. Installed Water Heater Manufacturer Information

	02	03
Water Heating		.O. ' 711.
System ID or		20 4
Name	Manufacturer	Model Number
		10, 16
		0 415
	210	08
	.0.	10000
		"il . 'Ye
		15, 110.
	20, 11	, 0,
	agio" ur	, ,,0,
	"War, ig m	, blog
c	Olwar, dig m	Sprov
	Ormar, id m	Sprov
10	OLLUSINITEB	Sprov
or in	OLLUSTING	Sprov
coring	MOFASIIGHER	Sprov
to, iu	Moragindin	Sprov
to, in	Mornaridin	Sprov
tor in	Moragindin	Sprov
eor in	Mornaridin	S Prov

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F. Mandatory Measures for all Domestic Hot Water Distribution Systems

01	Equipment shall meet the applicable requirements of the Appliance Efficiency Regulations (Section 110.3(b)1).
02	Unfired storage tanks are insulated with an external R-3.5 or combination of R-16 internal and external Insulation.
UZ	(Section 110.3(c)4).
03	All domestic hot water piping shall be insulated as specified in Section 609.11 of the California Plumbing Code. Insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve. Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall butt securely against all framing members. Piping installed in interior or exterior walls that is surrounded on all sides by at least 1 inch (2.5 cm) of insulation. Piping installed in crawlspace with a minimum of 1 inches (2.5 cm) of crawlspace insulation above and below. Piping installed in attics with a minimum of 4 inches (10 cm) of attic insulation on top.
	For Gas or Propane Water Heaters: Ensure either a or b are installed (Section 150.0(n))
	a) designated space at least 2.5 feet by 2.5 feet and 7 feet tall within 3 feet from the water heater
	 □ A dedicated 125V, 20A electrical receptacle connected to the electric panel with a 120/240V 3 conductor, 10 AWG copper branch circuit, within 3 feet from the water heater and is accessible with no obstructions; □ The conductor shall be labeled with the word "Spare" on both ends; and □ A reserved single pole circuit breaker space next to the circuit breaker next to the branch circuit labeled "Future" 240V shall be provided. □ A condensate drain no more than 2 inches higher than the base on water heater for natural draining.
	A condensate drain no more than 2 menes ingried than the base on water neater for natural draining.
04	 b) A designated space at least 2.5 feet by 2.5 feet and 7 feet tall more than 3 feet from the water heater A dedicated 240 volt branch circuit shall be installed within 3 feet from the designated space. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready"; and The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future HPWH installation. The reserved space shall be permanently marked as "For Future 240V use"; and
<.	☐ Either a dedicated cold water supply, or the cold water supply shall pass through the
1	designated HPWH location just before reaching the gas or propane water heater; and
	The hot water supply pipe coming out of the gas or propane water heater shall be routed first through the designated HPWH location before serving any fixtures; and
	The hot and cold water piping at the designated HPWH location shall be exposed
	and readily accessible for future installation of a HPWH; and
	 A condensate drain no more than 2 inches higher than the base of the installed water heater, and allows natural draining without pump assistance.
	neater, and anows natural draining without pump assistance.

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



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G. HERS-Verified Compact Hot Water Distribution Expanded Credit (CHWDS-H-EX) (RA3.6.5)

For dwelling units with multiple systems, enter the master bath distance and kitchen distance to the closest water heater, and enter the average of the furthest fixture to each water heater.

01	02	03	04	05	06	07	08	09	
Dwellir Name	o l	Master Bath distance of furthest fixture to Water Heater in feet	Kitchen distance from furthest fixture to Water Heater in feet	Furthest Third furthest fixture to Water Heater in feet (Avg for multiple water heaters)	Weighted Distance	Qualification Distance	Design Compactness Factor	Calculated Compactness Factor	
						011	- 1		
10	No hot water pip	ing >1 inch diame	eter is allowed.			0	1 1/2		
11	Length of 1 inch diameter piping is limited to 8 feet or less.								
12	Two and three story buildings cannot have hot water distribution piping in the attic, unless the water heater is also located in the attic.								
13	Eligible recirculat	ing systems must	be HERS-Verified	Demand Recircula	ition: Manual Co	ontrol conforming	g to RA4.4.17.		

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

H. Compact Hot Water Distribution (CHWDS) (RA4.4.6)

For dwelling units with multiple systems, enter the master bath distance and kitchen distance to the closest water heater, and enter the average of the furthest fixture to each water heater

01	02	03	04	05	06	07	08	09
		Master Bath			.0			
		distance of	7	Furthest Third	110			
		furthest	Kitchen	furthest fixture	2.			
		fixture to	distance from	to Water Heater				
	C. (Water	furthest fixture	in feet (Avg for			Design	Calculated
Dwelling	Number of	Heater in	to Water	multiple water	Weighted	Qualification	Compactness	Compactness
Name	Stories	feet	Heater in feet	heaters)	Distance	Distance	Factor	Factor
	10	20						
- 4		10	-	*				

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

I. HERS-Verified Drain Water Heat Recovery System (DWHR-H) (RA3.6.9)

DWHR devices shall comply with these requirements.

Registration Number:

Registration Date/Time:

HERS Provider:

CA Building Energy Efficiency Standards – 2022 Low-Rise Multifamily Compliance

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Design DWHR System Information

01	02	03	04
System ID/Name	Rated Effectiveness	Installation Configuration	Percent of shower served by the DWHR device

Installed DWHR System Information

05	06	07	08	09	10	11
System ID/Name	Manufacturer	Model Number	Rated Effectiveness	Installation Configuration	Percent of shower served by the DWHR device	DWHR System Certified by CEC (Yes/No)
			CSI a	X O	.0.0	
12	heat from the mast	For water heating system serving a Individual dwelling, the DWHR system shall, at the minimum, recover heat from the master bathroom shower and must transfer that heat either back to the respective shower(s) or the water heater.				
13		half the showers	located above the	llings, the DWHR sys first floor and must		
14 The DWHR unit(s) shall be installed within 1 degree of the rated slope. Sloped DWHR shall have a minimum lengthwise slope of 1 degree. The lateral level tolerance shall be within plus or minus 1			l have a			
			minus 1 degree.			

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

J. HERS-Verified Pipe Insulation Credit Requirements (PIC-H) (RA3.6.3)

Systems that utilize this distribution type shall comply with these requirements.

HERS rater shall perform a visual inspection that all hot water piping complies with the insulation requirements in 150.0(J).

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

K. HERS-Verified Parallel Piping Requirements (PP-H) (RA3.6.4)

Systems that utilize this distribution type shall comply with these requirements

,	
01	Each central manifold has 5 feet or less of pipe between manifold and water heater.
02	For manifolds that include valves, the manifold must be readily accessible in accordance with the plumbing code.
03	Hot water distribution system piping from the manifold to the fixtures and appliances must take the most direct path. For example, piping from a second story manifold cannot supply the first floor.
04	The hot water distribution piping must be separated by at least 2 inches from any other hot water supply piping, and at least 6 inches from any cold water supply piping. Alternatively, the hot water supply piping must be insulated to the thicknesses shown in Table 120.3-A.

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



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L. Parallel Piping Requirements (PP) (RA4.4.4)

Systems that utilize this distribution type shall comply with these requirements.

01	Each central manifold has 15 feet or less of pipe between manifold and water heater.
02	For manifolds that include valves, the manifold must be readily accessible in accordance with the plumbing code.
03	Hot water distribution system piping from the manifold to the fixtures and appliances must take the most direct path. For instance, piping from a second story manifold cannot supply the first floor.
04	The hot water distribution piping must be separated by at least 2 inches from any other hot water supply piping, and at least 6 inches from any cold water supply piping. Alternatively, the hot water supply piping must be insulated to the thicknesses shown in Table 120.3-A.

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

M. Point of Use Requirements (POU) (RA4.4.5)

Systems that utilize this distribution type shall comply with these requirements.

	All hot water supply pipe run lengths are equal to or less than the maximum values shown below, based on the pipe diameter. If a combination of piping is used in a single run, then one half the allowed length of each size is the maximum installed length. The maximum allowed length of piping for the longest run terminating in:
01	3/8 inch - For only one pipe size - max length allowed is 15 feet For combination pipe sizes the max allowed length of 3/8-inch piping is 7.5 feet, of 1/2 inch piping is 5 feet, and 3/4 inch piping is 2.5 feet.
	1/2 inch - For only one pipe size – max length allowed is 10 feet For combination pipe sizes the allowed length of 1/2inch piping is 5 feet, and 3/4 inch piping is 2.5 feet.
	3/4 inch - For only one pipe size = 5 feet

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

N. Mandatory Requirements for all Recirculation Systems (RA4.4.7)

Systems that utilize a recirculation system shall comply with these requirements.

01	A check valve located between the recirculation pump and the water heater to prevent unintentional recirculation.
02	Piping must take the most direct path between water heater and fixtures.
03	Insulation is not required on the cold water line when it is used as the return.
04	If more than one loop is installed each loop shall have its own pump and controls.

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

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O. Recirculation Non-Demand Controls Requirements (R-ND) (RA4.4.8)

Systems that utilize this distribution type shall comply with these requirements.

The active control shall be either: timer, temperature, or time and temperature. Timers shall be set to less than 24 hours. The temperature sensor shall be connected to the piping and to the controls for the pump.

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

P. Demand Recirculation Manual Control (R-DRmc) (RA4.4.9)/Sensor Control (RDRsc) (RA4.4.10) Requirements

Systems that utilize either of these distribution types shall comply with these requirements.

01	The system operates "on-demand", meaning that the pump begins to operate shortly before or immediately after hot water draw begins, and stops when the return water temperature reaches a certain threshold value. For Demand Recirculation Manual Control, the pump shall be turned on using a manual switch system. For Demand Recirculation Sensor Control, the pump shall be turned on using a sensor system.
02	The controls shall be located in the kitchen, bathroom, and any hot water fixture location that is at least 20 feet from the water heater.
03	Manual controls may be active by wired or wireless mechanisms.
04	Sensor controls may be activated by wired or wireless mechanisms, including buttons, motion sensors, door switches and flow switches. Each control shall have standby power of 1 Watt or less.
05	Pump and control placement shall meet one of the following criteria: When a dedicated return line has been installed the pump, controls and thermo-sensor are installed at the end of the supply portion of the recirculation loop; or The pump and controls are installed on the dedicated return line near the water heater and the thermosensor is installed in an accessible location as close to the end of the supply portion of the recirculation loop as possible; or When the cold water line is used as the return, the pump, demand controls and thermo-sensor shall be installed in an accessible location at the end of supply portion of the hot water distribution line (typically under a sink).
06	After the pump has been activated, the controls shall allow the pump to operate until the water temperature at the thermo-sensor rises to one of the following values: \[\text{Not more than 10°F (5.6°C) above the initial temperature of the water in the pipe; or \] \[\text{Not more than 102°F (38.9°C).} \]
07	Controls shall limit operation to no more than 5 minutes following activation.

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

Q. HERS-Verified Demand Recirculation Manual Control (RDRmc-H) (RA3.6.6)/Sensor Control (RDRsc-H) (RA3.6.7) Requirements

Systems that utilize this distribution type shall comply with these requirements

HERS rater shall perform a visual inspection to verify that the demand pump, manual/sensor controls and thermosensor are present and operating properly consistent with the applicable requirements of RA4.4.9 and RA4.4.10

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

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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

- 2. I certify the following under penalty of perjury, under the laws of the State of California:
 - 1. The information provided on this certificate of installation is true and correct.
 - 2. 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.
 - 3. 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.
 - 4. 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.
 - 5. I understand 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, and I will take the necessary steps to ensure this requirement is accomplished.
 - 6. 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, and I will take the necessary steps to ensure this requirement is accomplished.

A contract of the contract of		
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):	

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

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. His 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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HERS Verified Individual Dwelling Unit Hot Water System Distribution	(Page 2 of 4)

- 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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HERS Verified Individual Dwelling Unit Hot Water System Distribution	(Page 3 of 4)

- 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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HERS Verified Individual Dwelling Unit Hot Water System Distribution	(Page 4 of 4)

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 Senor Control, HERS-Verified Demand Recirculation Manual Control or HERS-Verified Demand Recirculation Senor 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 Senor 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.