CERTIFICATE OF INSTALLATION		CF2R-PLMB-06-E
Pool And Spa Heating Systems		(Page 1 of 2)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City	Zip Code

A. SYSTEMS AND EQUIPMENT (SECTION 114.0(A))

- 1. Heater has a thermal efficiency that complies with the Appliance Efficiency Regulations.
- 2. Has a readily accessible on-off switch mounted outside of the heater.
- 3. Weatherproof plate or card containing operating instructions for the pool or spa heater.
- 4. No electric resistance heating except for listed package units that has fully insulated enclosures and tight fitting covers that are insulated to at least R-6. Or if documentation is provided that at least 60 % of the annual heating energy is from site solar energy or recovered energy.
- 5. Heating system has no pilot light.

The responsible person's signature on this Certificate of Installation indicates the system identified on this Certificate has complied with all applicable requirements specified in this Table.

B. INSTALLATION (SECTION 114.0(B))

- 1. System is installed with at least 36" of pipe between the filter and heater, or dedicated suction and return lines, or built-in or built-up connections for future solar heating.
- 2. A cover for outdoor pools or spas that have a heat pump or gas heater.
- 3. Pool system has directional inlets to adequately mix the pool water
- 4. Time switch which will allow the pump to be set or programmed to run during off-peak periods only

The responsible person's signature on this Certificate of Installation indicates the system identified on this Certificate has complied with all applicable requirements specified in this Table.

C. PUMP SIZING AND FLOW RATE SPECIFICATION (SECTION 150.0(P)) The pump specified is listed in the CEC database of certified pool pumps. The pump flow rate shall be calculated based on pool sizing table below. 3. The pump is capable of operating at 2 or more speeds (not applicable if pump is less than 1 horsepower). 4. Each auxiliary pool load is served by either a separate pump, or the system is served by a multi-speed pump. Calculated volume of pool (gallons). 6. Return Pipe Diameter (inches). 7. Suction Pipe Diameter (inches). 8. Filter Type (Cartridge, Sand, DE). 9. Filter Surface Area (ft²). 10. Max Pump Flow (gpm).

The responsible person's signature on this Certificate of Installation indicates the system identified on this Certificate has complied with all applicable requirements specified in this Table.

D. SYSTEM PIPING

- 1. The suction side pipe is straight for at least 4 pipe diameters before entering the pump (See table below for the required straight run lengths for various pipe sizes).
- 2. The design uses low pressure drop fittings (sweep 90s)

The responsible person's signature on this Certificate of Installation indicates the system identified on this Certificate has complied with all applicable requirements specified in this Table.

CERTIFICATE OF INSTALLATION			CF2R-PLMB-06-E	
Pool And Spa Heating Systems			(Page 2 of 2)	
Project Name:	Enforcement Agency:		Permit Number:	
Dwelling Address:	City		Zip Code	
			1	
E. FILTRATION EQUIPMENT				
If a backwash valve is used: The diameter of the ba pipe, whichever is greater	ckwash multi-port valve is	2 inches or as large	e as the circulation	
The responsible person's signature on this Certificate of In		stem identified on	this Certificate has	
complied with all applicable requirements specified in this	Table.			
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT				
1. I certify that this Certificate of Installation documenta		lete.		
Name:	Signature:			
Company:	Date:			
Address:		CEA or CEPE or HERS Certification # If Applicable:		
City/State/Zip:		Phone:		
RESPONSIBLE PERSON'S DECLARATION STATEMENT				
I certify under penalty of perjury, under the laws of the true and correct.	ne State of California, the	information provid	ed on this form is	
I am eligible under Division 3 of the Business and Pro- authorized representative of the person responsible in		•	struction, or an	
 I certify that the installed features, materials, comport (the installation) conforms to all applicable codes and and specifications approved by the enforcement ager 	I regulations, and the inst			
4. I reviewed a copy of the Certificate of Compliance (CF specific requirements for the installation. I certify the installation have been met.				
5. I will ensure that a completed, signed copy of this Cowith the building permit(s) issued for the building, a applicable inspections. I understand that a signed cowith the documentation the builder provides to the	nd made available to the opy of this Certificate of I	enforcement agen nstallation is requi	cy for all	
Company Name: (Installing Subcontractor or General Cor	tractor or Builder/Owner)		

Date Signed:

Responsible Person's Name:

CSLB License:

Responsible Person's Signature:

Position With Company (Title):

CERTIFICATE OF INSTALLATION - USER INSTRUCTIONS	CF2R-PLMB-06-E
Pool And Spa Heating Systems	(Page 1 of 1)

CF2R INSTRUCTIONS

	• .	pased on a maxin an 1 hp. The max				•
Max Pool Volume (gallons)	Min Pipe D or Greater (inches)		Min Filter Area or more (square feet)		Max Pump Flow (gpm)	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Return	Suction	Cartridge	Sand	DE	,,,
13,000	1.5	1.5	100	2.4	20	36
17,000	1.5	2	130	3.1	25	47
21,000	2	2	160	3.9	30	58
28,000	2	2.5	210	5.2	40	78
42,000	2.5	3	320	7.8	60	117
48.000	3	3	360	8.9	70	133

Table D Pipe Diameter/Pipe Length		
Pipe Diameter	Required Pipe Length	
(inch)	leading into pump (inch)	
1.5	6	
2	8	
2.5	10	
3	12	