ESHB 1619 - S AMD **1297**
    By Senator Fortunato

1   On page 10, line 35, after "~~2009.~~))" insert "(i)"

2   On page 11, line 2, after "2022" insert ";
3   (ii) The normalized standby power (Pnorm), as defined in Table
4   G-5, of portable electric spas manufactured on or after June 1, 2019,
5   shall be no greater than the applicable values shown in Table G-5.

6   Table G-5
7   Standards for Portable Electric Spas

Appliance	Normalized Standby Power (Pnorm) Condition	Maximum Standby Power (Watts)
Standard spas and the standard spa portion of combination spas	Where: ΔTstd = 37 degrees Fahrenheit (21 degrees Celsius)	$3.75V^{2/3}+40$
Exercise spas and the exercise spa portion of combination spas	Where: ΔTstd = 22 degrees Fahrenheit (12.2 degrees Celsius)	$3.75V^{2/3}+40$
Exercise spas and the exercise spa portion of combination spas capable of maintaining a minimum water temperature of 100°F for the duration of the test	Where: ΔTstd = 37 degrees Fahrenheit (21 degrees Celsius)	$3.75V^{2/3}+40$
Inflatable spas	Where: ΔTstd = 37 degrees Fahrenheit (21 degrees Celsius)	$7(V^{2/3})$

27 Where:
28 Pnorm = normalized standby power = Pmeas (ΔTstd/ΔTmeas), in Watts;
29 Pmeas = E/t:

1 E = total energy use during the test, in Watt-hours;
2 t = length of test, in hours;
3 ΔTmeas = Twater avg - Tair avg;
4 Twater avg = average water temperature during test;
5 Tair avg = average air temperature during test;
6 V = the fill volume, in gallons"

7   On page 11, line 6, after "(b)" insert "(i)"

8   On page 11, line 12, after "2022" insert ";
9 (ii) The normalized standby power (Pnorm), as defined in Table
10 G-5, of portable electric spas manufactured on or after June 1, 2019,
11 shall be no greater than the applicable values shown in Table G-5.

12   Table G-5
13   Standards for Portable Electric Spas

Appliance	Normalized Standby Power (Pnorm) Condition	Maximum Standby Power (Watts)
Standard spas and the standard spa portion of combination spas	Where: ΔTstd = 37 degrees Fahrenheit (21 degrees Celsius)	$3.75V^{2/3}+40$
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Exercise spas and the exercise spa portion of combination spas capable of maintaining a minimum water temperature of 100ºF for the duration of the test	Where: ΔTstd = 37 degrees Fahrenheit (21 degrees Celsius)	$3.75V^{2/3}+40$
Inflatable spas	Where: ΔTstd = 37 degrees Fahrenheit (21 degrees Celsius)	$7(V^{2/3})$

33 Where:
34 Pnorm = normalized standby power = Pmeas (ΔTstd/ΔTmeas), in Watts;
35 Pmeas = E/t:

1   E = total energy use during the test, in Watt-hours;

2   t = length of test, in hours;

3   ΔTmeas = Twater avg - Tair avg;

4   Twater avg = average water temperature during test;

5   Tair avg = average air temperature during test;

6   V = the fill volume, in gallons"

     EFFECT: Adds specifications from California Code of Regulations, Title 20, section 1605.3 in effect as of January 1, 2022, to the efficiency standards for portable electric spas.

--- **END** ---