

A modification to correlate RECPI-10 & REPI-18

RECPI-10 (modified, with red text to clearly show changes from RECPI-10 and REPI-18)

TABLE R408.2
CREDITS FOR ADDITIONAL ENERGY EFFICIENCY

R408.2.43 Reduced energy use in service water-heating options.

Measure Number	Measure Description	Credit Value								
		CZ 0 & 1	CZ 2	CZ 3	CZ 4	CZ 4C	CZ 5	CZ 6	CZ 7	CZ 8
R408.2.4 (1)	Gas-fired storage water heaters	7	6	5	3	3	2	2	3	1
R408.2.4 (2)	Gas-fired instantaneous water heaters	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
R408.2.4 (3)		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
R408.2.4 (4)		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
R408.2.4 (5)	Solar hot water heating system	4	5	6	6	6	6	5	5	4
R408.2.4 (6)	Compact hot water distribution	2	2	2	2	2	2	2	2	2

For measure numbers R408.2.4 (1) through R408.2.4 (5), the hot water system shall meet one of the Uniform Energy Factors (UEF) or Solar Uniform Energy Factors (SUEF) efficiencies: in Table R408.2.34. For measure number R408.2.4 (6), the hot water system shall comply with R408.2.4.1.

Table 408.2.34 Service water-heating efficiencies

Measure Number Option	Water Heater	Size and Draw Pattern	Type	Efficiency
R408.2.4 (1)	Gas-fired storage water heaters	≤ 55 gallons, Medium		UEF ≥ 0.81
		≤ 55 gallons, High		UEF ≥ 0.86
		>55 gallons, Medium or High		UEF ≥ 0.86
R408.2.4 (2)	Gas-fired instantaneous water heaters	Medium or High		UEF ≥ 0.95

<u>R408.2.4 (3)</u>	<u>Electric water heaters</u>	<u>Low, Medium, or High</u>	<u>Integrated HPWH</u>	<u>UEF ≥ 3.30</u>
<u>R408.2.4 (4)</u>	<u>Electric water heaters</u>	<u>Low, Medium, or High</u>	<u>Integrated HPWH, 120 Volt/15 Amp Circuit</u>	<u>UEF ≥ 2.20</u>
		<u>Low, Medium, or High</u>	<u>Split-system HPWH</u>	<u>UEF ≥ 2.20</u>
<u>R408.2.4 (5)</u>	<u>Solar water heaters</u>		<u>Electric backup</u>	<u>SUEF ≥ 3.00</u>
			<u>Gas backup</u>	<u>SUEF ≥ 1.80</u>

R408.2.4.1. Compact hot water distribution. For Compact Hot Water Distribution system credit, the volume shall store not more than 16 ounces of water in the nearest source of heated water and the termination of the fixture supply pipe when calculated using section R403.5.4. When the hot water source is the nearest primed plumbing loop or trunk, this must shall be primed with an on-demand recirculation pump and must shall run a dedicated ambient return line from the furthest fixture or end of loop to the water heater. In order to claim this credit, the dwelling must shall have a minimum of 1.5 bathrooms.

To field or plan review, verify that the system meets the prescribed limit, one of the following must be done:

- d. At plan review, referencing ounces of water per foot of tube on plans as per Table R403.5.4.1
- e. At rough in (plumbing), referencing ounces of water per foot of tube installed as per Table R403.5.4.1
- f. At final inspection, in accordance with Department of Energy's Zero Energy Ready Home National Specification (Rev. 07 or higher) footnote on Hot water delivery systems.