

## Solar hot water sizing for a family

80 gallon for 1 to 3 people / 119 gallon for 3 to 5 people

### Collector choices and number required

Tank size		4x4 = 16ft <sup>2</sup>	4x6.5= 26ft <sup>2</sup>	4x8= 32ft <sup>2</sup>	4x10= 40ft <sup>2</sup>	
		SS-16	SS-26	SS-32	SS-40	
Water temperature is 50° Northern climate	80 gallon tank	5	3	2	2	50° to 160° = 73,304 BTU
	119 gallon tank	7	4	3	3	50° to 160° = 109,039 BTU
<a href="http://askrod.com/temp-of-incoming-water-for-sizing/">http://askrod.com/temp-of-incoming-water-for-sizing/</a>						
Water temperature is 70° Southern climate	80 gallon tank	4	2	2	2	70° to 160° = 59,976 BTU
	119 gallon tank	6	3	3	2	70° to 160° = 89,214 BTU

16,000 BTU    26,000 BTU    32,000 BTU    40,000 BTU

Based on 1,000 BTU per ft<sup>2</sup> of collectors

