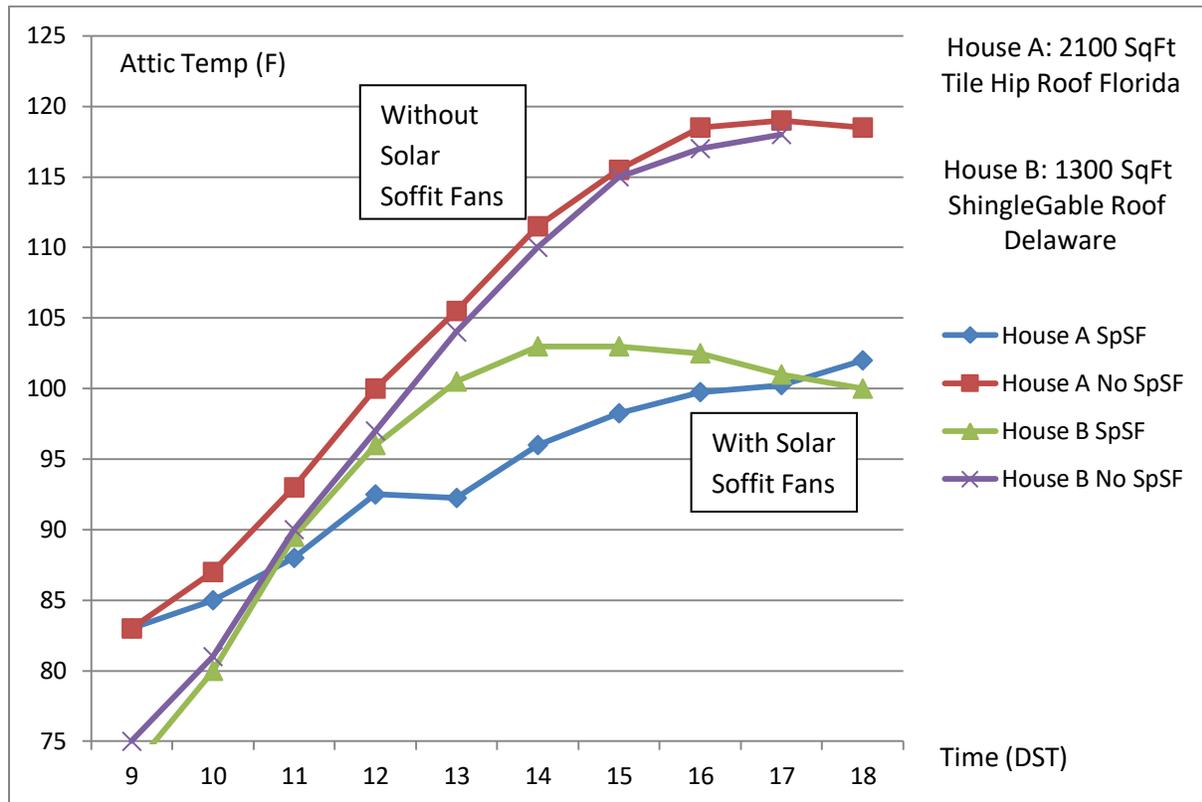


SpSF Test Data Summer 2010



House A Owner Comments – “I put the thermometer sensor on top of the living room cathedral ceiling, at the far end of the house from the fans. After the fans were installed, I went into the attic and I could feel the cool air coming in. I went outside and could feel warm air coming out of the soffit vents on the side of the house.”

House B Owner Comments – “The attic is 4 feet high. The temperature two feet above the ceiling was about 20 degrees higher. I could feel the cool air on the attic floor.”

House C: 3200 SqFt Tile Hip Roof Florida, incomplete data. Owner Comments –“At times, the (SpSF cooled) attic temperature was lower than the (south stone patio area) outside temperature. Our monthly electric bill was lower. We want one for our son’s (separate attic) bedroom area.”

House D: 1200 SqFt Tile Hip Roof Florida, incomplete data. Owner Comments –“It was much less stuffy inside, and the bedroom air was comfortable for the first time. The air conditioning doesn’t run as much. The highest the attic reached this summer was 106F. You can’t hear the fans run. The wind turbines never turned before, now they turn even when there is no wind.”

House E: 2200 SqFt White Tile Hip Roof Florida, Owner Comments –“We kept records for 3 weeks, and the attic temperature never went over 98F, which was also the highest outside temperature. The attic is bone dry. Our summer electric bill with air conditioning was \$155 per month; winter is about \$130 per

month. The air conditioner definitely runs less. There isn't any stuffiness in the house anymore, even in closed rooms."

Other test house notes –

- During passing summer "sun showers", the SpSF fans ran if the sun was at an angle that was not blocked by the rain cloud. The cooler air under the shower cloud that was blown into the attic dropped the attic temperature several degrees in a few minutes.
- All test house owners noted, and volunteered, that their house was "less stuffy" with the SpSFs.
- Perforated aluminum soffit vent openings were usually found to be blocked with dust, debris, dead bugs, blown insulation, and aluminum oxidation.
- Attic air is cool until mid-morning, or until it is replaced with outside air.
- SpSFs are quiet.
- SpSFs with adjustable mounts on the north side of the house can be as effective as those with fixed or adjustable mounts on the south side of the house.
- Adjusting the solar panel tilt twice a year (summer setting vs. spring-autumn setting) provides fan performance similar to installing a bigger, more expensive solar panel that is not adjusted.
- Thermostats that were tested never opened during summer months.
- On windy days, SpSFs work better if they are working *with* the wind direction, instead of *against* the wind direction.



SOLAR POWERED SOFFIT FANS LLC