



Solar Powered Soffit Fans LLC

September 2017

CSF 210 Information

CSF provides forced crawl space ventilation and moisture reduction during sunlight hours, year around. Reducing crawl-space moisture increases floor insulation values and reduces the chances of mold, fungus, and rot development. According to NOAA, average outside relative humidity is lower during the daylight hours when the CSF automatically runs, powered only by sunlight. Air exhausted from the crawl space during sunlight hours is replaced by drier outside air that enters the crawl-space through the other passive crawl space vents. During night hours and times of precipitation or dense cloud cover when outside air relative humidity typically rises, the CSF automatically stops.

We recommend that, in addition to CSF ventilation, the crawl space should have-

- A vapor barrier on the ground;
- All leaks and drips stopped;
- Cold water and HVAC pipes insulated to prevent condensation; and
- Any HVAC ducting properly sealed and insulated.

The compact, adjustable, 10 watt solar panel mounts to the roof edge structure, a south facing wall, a post, or railing. A mini-fan cluster is mounted on the inside of a 16" x 8" screened foundation vent, discharging damper air to the outside through the vent. The fan cluster can also be mounted in a cut out in the crawl space access panel. The connecting cable is 25 feet long (additional wire, up to 100 feet, is available) with quick disconnects.

The CSF 210 is usually adequate for crawlspaces that are 2-3 feet high and about 1200 square feet in area. Please contact SPSF about CSF for larger areas.

CSF does not provide pipe freeze protection. The air changes caused by CSF are comparable to those that occur on a very windy day with passive foundation vents, and your existing freeze protection should provide adequate freeze protection by insulation or other means. If you are concerned that CSF may affect freeze protection in very cold weather, simply unplug the fan, and reconnect it when the risk has passed.

CSF should never be used to vent hazardous or flammable atmospheres.

CSF 210 Kit includes –	
10 watt high efficiency mono-crystalline solar panel	360 degree adjustable ball and socket solar panel mount
Solar panel mount Z adapter plate	High efficiency 2 fan cluster with aluminum vent and insect screen
25 feet of outdoor wire with quick connectors	Mounting screws