



# greenfan® inc.

## Smart Fan Controller™ (SFC™) Model 1414-01

Smart Fan Controller SFC Model 1414-01 P/N GF-1414-01	SFC software automatically adjusts and extends cooling and heating variable fan-off delays based on the duration of on and off cycles to improve cooling and heating energy efficiency by 10 to 20% based on Intertek® laboratory tests.
Intertek® Lab Tested	AC and gas furnace lab tests <a href="http://www.greenfan.co/s/Intertek_DXGF.pdf">www.greenfan.co/s/Intertek_DXGF.pdf</a> Heat pump and hydronic lab tests <a href="http://www.greenfan.co/s/Intertek_DXHP.pdf">www.greenfan.co/s/Intertek_DXHP.pdf</a>
CPUC-Approved	SWHC059-02 Smart Fan Controller (SFC) measure package is approved statewide by the California Public Utilities Commission. <a href="http://www.caetrm.com/measure/SWHC059/02/">www.caetrm.com/measure/SWHC059/02/</a>
Compliance	UL 916 Energy Management Accessory Certification E 356046, Class 2. 24Vac, 0.75 A
Compatibility	Works with smart thermostats on split-system and packaged air conditioning systems and gas furnace, heat pump, electric, and hydronic heating systems.
Value Proposition	High customer satisfaction based on improved indoor air quality and comfort.
Indoor Air Quality	SFC prevents biofilms and maintains proper airflow by removing 0.5 to 0.8 lbs of water per AC cycle to dry evaporator coil after each cooling cycle. According to Montana State University Center for Biofilm Engineering, biofilms are formed by viruses, bacteria, mold, fungi, mites, and dust attaching to water on evaporator coils which flow into conditioned spaces impacting indoor air quality. <a href="https://www.biofilm.montana.edu/">https://www.biofilm.montana.edu/</a>
Standby Power	SFC standby power is only 0.3W and 2.5 kWh/y versus other fan controllers and smart thermostats with 1.3 to 1.6W and 11 to 14 kWh/y standby power
Reliability	SFC opto-isolator circuit eliminates stray voltage to prevent false triggering and prevent turning on fan during smart thermostat power stealing
Electric Specifications	0.3 Watts standby power, 24VAC, 50/60Hz, automatic resettable fuse
Wiring Harness	18 AWG Hook-Up Wires: Red hot R, Blue common B, Yellow AC Y, White heat W (or heat pump O/B), Black thermostat fan G, green to HVAC terminal fan G, Purple to hot R for heat pump O or accessory diode wire for heat pump B reversing valve.
Easy Installation	SFC quick tests check wire connections for easy, high-quality, and reliable installation to ensure proper operation to save energy and avoid call backs
Warranty	5-year warranty and solid-state design lasts for life of HVAC equipment
Patented variable fan-off delays	Cooling fan-off delay: 3 to 6 min. Gas furnace heating fan-off delay: 3 to 5.5 min. HP heating fan-off delay: 1 to 3.25 min. Hyd/electric heat fan-off delay: 2 to 3.5 min. US Pat. 11460208, 10047969, 10119719, 9797405, 9410713 B2, 10281938, 10533768, 10712036, 9995493, 11187425, RE49383E.
Ambient Conditions	32°F–122°F (0°C–50°C), 10%–95% RH, 86°F (30°C) maximum dew point
PCB electronics	RoHS and Prop 65 compliant all parts are UL listed
Packaging	RoHS and Prop 65 compliant Polyolefin, MgOH2 flame retardant UL E493462
Labeling	RoHS and Prop 65 compliant UL listed labels Made in USA
Dimensions	1.2" W x 0.5" D x 8" L with thermostat wires
Weight	0.8 ounces (22 grams)

Performance specifications are nominal and conform to acceptable industry standards. [www.greenfan.co/sfc](http://www.greenfan.co/sfc)