

Installation Manual

SAVC02 Control



High-End Product

The Company's SAVC02 is a high-end ventilation control device designed to vent attics in the winter using temperature and humidity sensors and in the summer using temperature.

Description of Operation

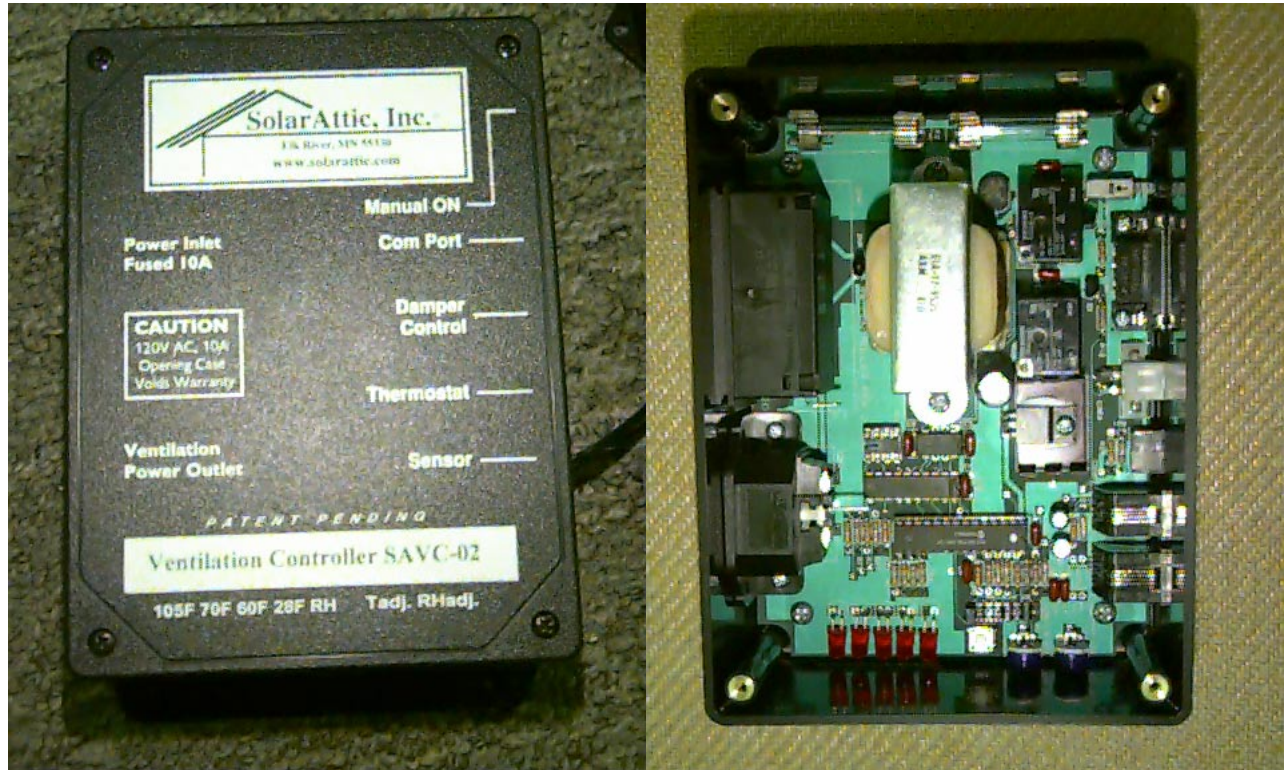
The electronic control senses the temperatures of 28°, 60°, 70° and 105°F. When the attic peak temperature drops to 28°F the first time, a winter condition is sensed and the control activates its humidity sensor. The attic is then vented whenever relative humidity exceeds a preset (adjustable) %Rh (factory set to 35% Rh). Between 28° F and 60° F (spring), the attic is vented constantly. As an alternative, the SAVC02 can also be set to the manual-on position and the ventilator would then simply vent constantly regardless of temperature or humidity. This could be useful in prolonged extreme subzero weather conditions. When the attic reaches 60°F, the SAVC02 stops ventilation. Ventilation, then, only occurs when the attic temperature exceeds the 105°F setting. The SAVC02 control provides for fully automated year-around ventilation.

Shipping Contents:

- Power Cable with Standard 115 vac Plug
- SAVC-02 Controller
- SAVC-02 Power Cord
- Sensor with phone cord plug
- Install & Operating Manual

A Systems Solution to Attic Ventilation

"SAVC02 Electronic Controller"



Temp Sensor
Humidity Sensor

Quarter
Size

A new solid state temperature and humidity sensor comes with the SAVC02 and is placed at the attic's peak. It simply plugs into the side of the SAVC02. There are no complicated controls to operate or settings to make. Simply plug the control into a 115-vac source and plug the Ridge Ventilator, Space heater or the combination unit into the control. Everything is fully automatic!

- 115 vac @ 10 Amps Max current output
- Can be used with existing attic fans
- Temperature sensing -40° F to +150°F
- Humidity sensing 0-50% Rh @ -40 to 185°F

Other specs include the following: Winter vent condition is set at 28° F; Summer vent condition is set at 105° F; Excess humidity vented @ 28° F and below when humidity exceeds 35% Rh; Summer heat is vented above 105° F; Winter ventilation occurs from 28° F - 60° F if winter is set.

How to Install the SAVC02

Step

- a) Mount the control box near the peak of the attic. If possible, mount the box in a convenient location to access the manual on button for testing and for manual operation during extreme weather conditions.
- b) Mount the attic temperature sensor near the peak of the attic extended away from the control. Do not mount the sensor in the air stream of the fan or blower you are connecting it to.
- c) Plug in your existing attic fans or blowers up to 10 amps maximum at 115 volts a-c. Currents above this limit are possible by extending the power output capability using external power relays. This is also true for using 220 vac fans or blowers. Consult a qualified electrician to extend the output operating power options.
- d) Do not attempt to exceed a 10-amp draw directly from the SAVC02 control itself. It is fused externally at a pullout fuse panel located next to the power inlet plug. Unplug the 115-vac power prior to checking the fuse. There is a built-in spare fuse.
- e) Plug the temperature/humidity sensor into controller side port.
- f) Plug the power cord into a 115-vac outlet and into controller. Make sure the push button switch on the side of controller is in the “out” position for automatic operation.
- g) The push button manual on switch requires depressing it with your finger to make it STAY manually on. This is normal. Simply pressing it in will turn on the fan and when you release your finger it will turn off. This serves both as a testing (PUSH) and as a manual on (DEPRESS-switch) function.
- h) There are no user serviceable parts inside of the SAVC02 control. An internal computer drives the ventilation control and senses humidity and temperature conditions.
- i) The USER simply mounts the control and plugs it in. Everything is automatic from that point on UNLESS the user wants the attic ventilation on all the time. Then, the user simply depresses the manual on switch to the SET position.
- j) LED lights at the bottom of the unit disclose the temperatures the sensor senses and also Rh levels above 35%. During the winter below 28 degrees F, the control monitors Rh levels and seeks to keep the attic at or below 35% Rh levels. The control therefore seeks to keep the internal humidity down and the internal temperature of the attic close to the outside ambient conditions. See above description of operation.

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