

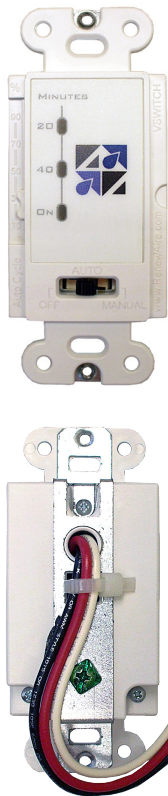
VSWITCH

Line Voltage Ventilation Fan Control

For V-Series Fans by RenewAire



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Capabilities: Automatic hourly run time from 10-90% to provide general ventilation
 Manual 20 and 40 minute delay time off to provide intermittent (point source) exhaust
 Continuous on
 Continuous off – service off

Ratings: 0.5 Amps, 100 Watts
 120 Volt, 60 Hz, Single Phase
 Leads: Black - Line, White - Neutral, Red - Load, Green Screw - Ground

Installation:

1. WARNING: TO AVOID FIRE, SHOCK OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER AND TEST THAT POWER IS OFF BEFORE WIRING. ELECTRICAL WIRING MUST BE DONE BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. NOT FOR OUTDOOR USE.
2. Install control in a standard electrical box with a minimum depth of 1-3/4".
3. Connect ground to green ground screw on back of control. Connect wire leads, following the wiring schematic (Figure 1). Check that all wire connections are secure. Use Copper Conductors Only.
4. Place all wires inside electrical box. Fit control into box and secure using two mounting screws provided.
5. Set "Auto Cycle %" using slider switch on the side of the control. See Run Time Setting for advice on the appropriate setting.
6. Use "Decora" style cover plate to complete installation.
7. Turn on circuit breaker to power the control.

Run Time Setting:

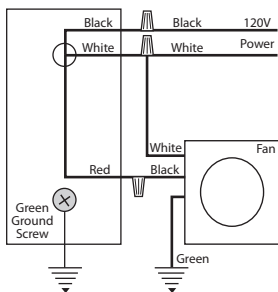
This control may be used to comply with ASHRAE 62.2 ventilation rates for residential applications. Using Figure 2 determine the necessary ventilation rate. Divide the required ventilation air by the fan's rated air flow. Better yet divide the required ventilation air by the tested air flow rate of the installed fan. For example, a three bedroom, 2500 square foot home requires 60 CFM of ventilation air. A V80 fan is rated to provide 80 CFM. 60/80=75%. Set the slider switch at 75%. A similar calculation for Auto Cycle % can be performed to provide an alternative ventilation rate as prescribed by other applicable codes and standards. NOTE: The switch plate must be removed to make adjustments to the Auto Cycle %.

ASHRAE 62.2 Ventilation Air Requirements, CFM

Figure 2

Floor Area (sq ft)	Bedrooms				
	0-1	2-3	4-5	6-7	>7
<1500	30	45	60	75	90
1501-3000	45	60	75	90	105
3001-4500	60	75	90	105	120
4501-6000	75	90	105	120	135
6001-7500	90	105	120	135	150
>7500	105	120	135	150	165

Figure 1




Operation:

- The control may be placed in three operation modes by selecting the switch position on the face plate of the control.
1. Off – all power cut off from the fan allowing for cleaning.
 2. Auto – this is the normal operation mode providing general ventilation based on the Auto Cycle % setting. In the Auto mode intermittent exhaust is also controllable using the touch pad on the face of the control.
 3. Manual – Auto Cycle % run does not occur but manual operation of the fan is provided by the touch pad.

Touch pad operation is possible when the control is in the Auto or Manual mode. Pushing the touch pad once will light the 20 minute LED and run the fan for 20 minutes before it turns off. Pushing the touch pad a second time will light the 40 minute LED and run the fan for 40 minutes before it turns off. Pushing the touch pad a third time will light the ON LED and run the fan continuously. Pushing the touch pad a fourth time will cancel touch pad operation and no lights will be lit. Note: If the control is in Auto mode, the Auto Cycle % runs independently of the touch pad operation. Auto Cycle % provides the hourly required general ventilation rate. For example, if set at 75%, 45 minutes on then 15 minutes off every hour. With one push of the touch pad the fan will run 20 minutes no matter the status of the Auto Cycle %.

Limited Warranty:

If within five (5) years of the product date code, this control fails due to a defect in materials and workmanship, Soler & Palau (S&P) will repair or replace the control, at its sole option, free of charge. The control must be returned to the dealer where the unit was purchased or directly to S&P (obtain return instructions by calling 800-961-7370). S&P will not cover installation labor and is not liable for any incidental or consequential damages. This warranty does not apply to (1) damage caused by accident, abuse or negligent use; (2) controls that have been taken apart or otherwise modified; (3) controls not used in accordance with instructions; (4) normal wear and tear such as surface weathering or (5) shipping damage.



VSWITCH
 Control for S&P
 V-Series Fans
 by RenewAire

ETL LISTED
CONFORMS TO
 UL STD 60730-1A
 UL STD 60730-2-7
CERTIFIED TO
 CAN/CSA STD E730-2-7
 CAN/CSA STD E60730-1

Due to continuing product development, specifications are subject to change without notice.
 For Technical Updates and other current info, visit www.solerpalau-usa.com