

Percentage Timer Control (PTL)

Installation and Operation Manual: AeriTM/EV/EV Premium/SL Series





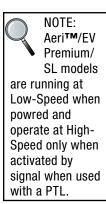


FRONT

BACK

NOTE: For ERV systems with more than one control:

Another control other than the push button may be causing your ventilator to run. If you wish to keep your ventilator from running, check that none of your controls are calling for unit operation.





OPERATION

The Percentage Timer Control with indicator lights (PTL) is the primary control for RenewAire Energy Recovery Ventilator (ERV) Aeri™, EV, EV Premium, and SL series models. This proportional runtime control will operate your ERV an adjustable amount of time each hour. When the "Runtime %" light is on, the PTL control is telling your ERV to operate. Additionally, the PTL can be set to turn your ERV off or to operate constantly. ERV operation time will vary from application to application as well as time of year, lifestyle, indoor air quality concerns and other factors. Discuss any questions with your HVAC professional or contact RenewAire directly.

Constant Operation: Press the RenewAire logo until the light next to "100" is lit.

Operation Each Hour: Run time of your ERV can be adjusted from 10%, or 6 minutes each hour, up to 100% operation in 10% increments. Simply press the RenewAire logo until the light next to the desired percentage amount is lit. You can increase or decrease the run time based upon daily, weekly or monthly variations in occupancy levels, indoor odors, cold weather winter humidity, or other indoor air quality concerns as needed.

FOR NO REGULAR OPERATION: Press the logo until all lights are off. The control is off.

INSTALLATION

- 1. Install control in a standard 2" x 4" electrical box, with a minimum depth of 1.5", with the two screws provided.
- 2. Wire Size: 18–22 gauge, no more than 500 feet. Wiring is non-polar.
- 3. The two wires from the ERV should be attached to the 'C' and 'R' positions on the terminal block on the back of the PTL Control.
- Use Lutron Decora™ cover plate to complete installation (single cover plate included).

PERCENTAGE RUN TIME TABLES

RUNTIME % SETTING	MINUTES OF OPERATION (PER HOUR)	EQUIVALENT CONTINUOUS OPERATION CFM*								
		AERI™	SL75	EV90	EV130	EV200	EVPS	EVPM	EVPL	EVPX
10	6	26	13	9	13	18	13	21	24	39
20	12	51	26	18	26	36	26	42	48	78
30	18	77	39	27	39	54	39	63	72	117
40	24	102	52	36	52	72	52	84	96	156
50	30	128	65	45	65	91	65	105	120	195
60	36	153	78	54	78	109	78	126	144	234
70	42	179	91	63	91	127	91	147	168	273
80	48	204	104	72	104	145	104	168	192	312
90	54	230	117	81	117	163	117	189	216	351
100	60	255	130	90	130	181	130	210	240	390

^{*}EV Premium and SL models running at max speed.

ASHRAE 62.2 2013/16 RESIDENTIAL VENTILATION AIR REQUIREMENTS BEDROOMS 45 60 68 501-1000 53 75 1001-1500 90 60 83 98 105 2001-2500 90 98 105 113 120 2501-3000 3001-3500 120 128 135 143 150 3501-4000 135 143 150 158 165 4001-4500 150 158 165 173 4501-5000 165 173 180 188 195

WIRING DIAGRAM

