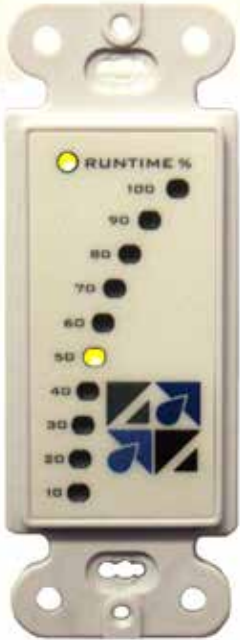


PTL

Percentage Timer Control

For use with EV90/EV90P/EV130/EV200/EV300



Front



Back

Operation

The Percentage Timer Control with indicator lights (PTL) is the primary control for RenewAire Energy Recovery Ventilator (ERV) models EV90/P, EV130, EV200 and EV300. 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.

NOTE for ERV systems with more than one control:

Another control 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.

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.
4. 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 | | | |
|-------------------|---------------------------------|-------------------------------------|-------|-------|-------|
| | | EV90/P | EV130 | EV200 | EV300 |
| 10 | 6 | 9 | 13 | 18 | 30 |
| 20 | 12 | 18 | 26 | 36 | 59 |
| 30 | 18 | 27 | 39 | 54 | 89 |
| 40 | 24 | 36 | 52 | 72 | 119 |
| 50 | 30 | 45 | 65 | 91 | 149 |
| 60 | 36 | 54 | 78 | 109 | 178 |
| 70 | 42 | 63 | 91 | 127 | 208 |
| 80 | 48 | 72 | 104 | 145 | 238 |
| 90 | 54 | 81 | 117 | 163 | 267 |
| 100 | 60 | 90 | 130 | 181 | 297 |

| ASHRAE 62.2 2013 Residential Ventilation Air Requirements Continuous CFM | | | | | |
|--|----------|-----|-----|-----|-----|
| Floor Area (ft ²) | Bedrooms | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| <500 | 30 | 38 | 45 | 53 | 60 |
| 501 - 1000 | 45 | 53 | 60 | 68 | 75 |
| 1001 - 1500 | 60 | 68 | 75 | 83 | 90 |
| 1501 - 2000 | 75 | 83 | 90 | 98 | 105 |
| 2001 - 2500 | 90 | 98 | 105 | 113 | 120 |
| 2501 - 3000 | 105 | 113 | 120 | 128 | 135 |
| 3001 - 3500 | 120 | 128 | 135 | 143 | 150 |
| 3501 - 4000 | 135 | 143 | 150 | 158 | 165 |
| 4001 - 4500 | 150 | 158 | 165 | 173 | 180 |
| 4501 - 5000 | 165 | 173 | 180 | 188 | 195 |

Wiring Diagram

