



## Mechanical Actuated Attic Vent Installation

1. For inlet ACI-4000P2, frame in 19" x 46-1/2" opening, for ACI-2800P2, frame in 19" x 28-3/4" and for ACI-2500P2, frame in 19" x 27" opening. (See Figure 1.) See Figure 6 on Page 3 for one possible layout to integrate an inlet within a system.
2. Staple the insulation stop to the frame's opening, making sure it is flush with the bottom side of trussing. The ends of the insulation stop on double units should overlap with lock tabs as shown in Figure 1 and Figure 2.
3. Attach inlet to framed opening using four (4) equally spaced self-tapping screws along each side. Attach the doors to the frame by pressing in on the push buttons on the door and snapping them into the hole in the frame as shown in Figure 3 on Page 2. **NOTE:** Do not attach inlet to frame-out through end flanges.
4. Run the 1/8" stainless steel rod through the inlet. Use one rod to actuate the doors simultaneously as shown in Figure 3 on Page 2. Use two (2) rods to actuate the doors independently as shown in Figure 4 on Page 2.
5. With the actuator in the closed position, attach the nylon cord to the stainless steel rod using a 1/8" cable clamp and 2" from inside of the inside panel nearest the actuator.
6. Thread nylon cord through pulley then down through door. Close the door and slide plastic ball onto cord, then fasten closed with azuma nut. (See Figure 4 on Page 2.)
7. Cut off excess cord, leaving 3"-4" below the azuma nut for adjustment. (See Figure 3 and Figure 4 on Page 2.)

**NOTE:** The cord will stretch. Re-adjust azuma nut as needed to keep door closed.

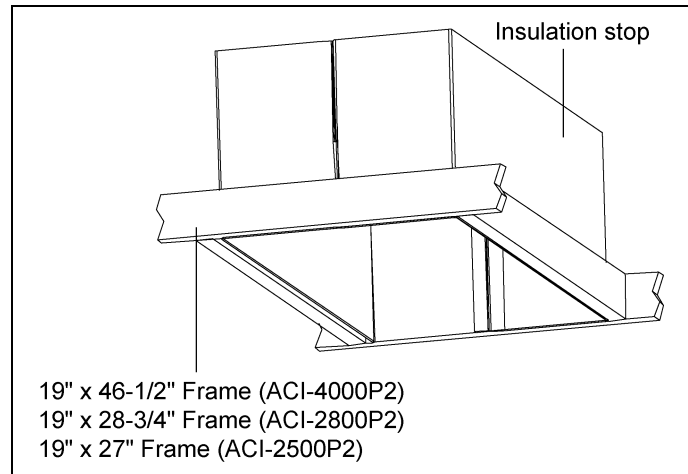


Figure 1

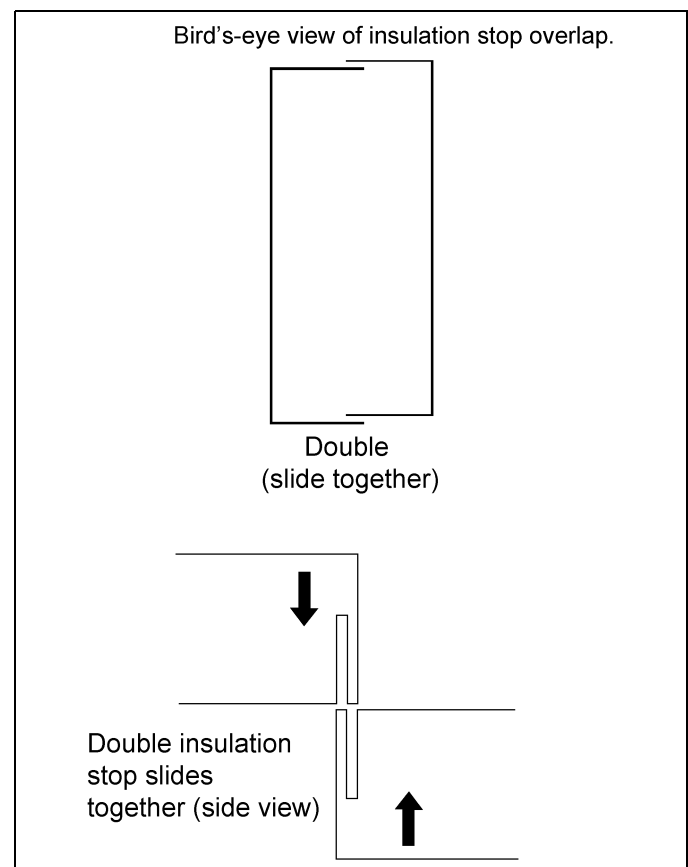
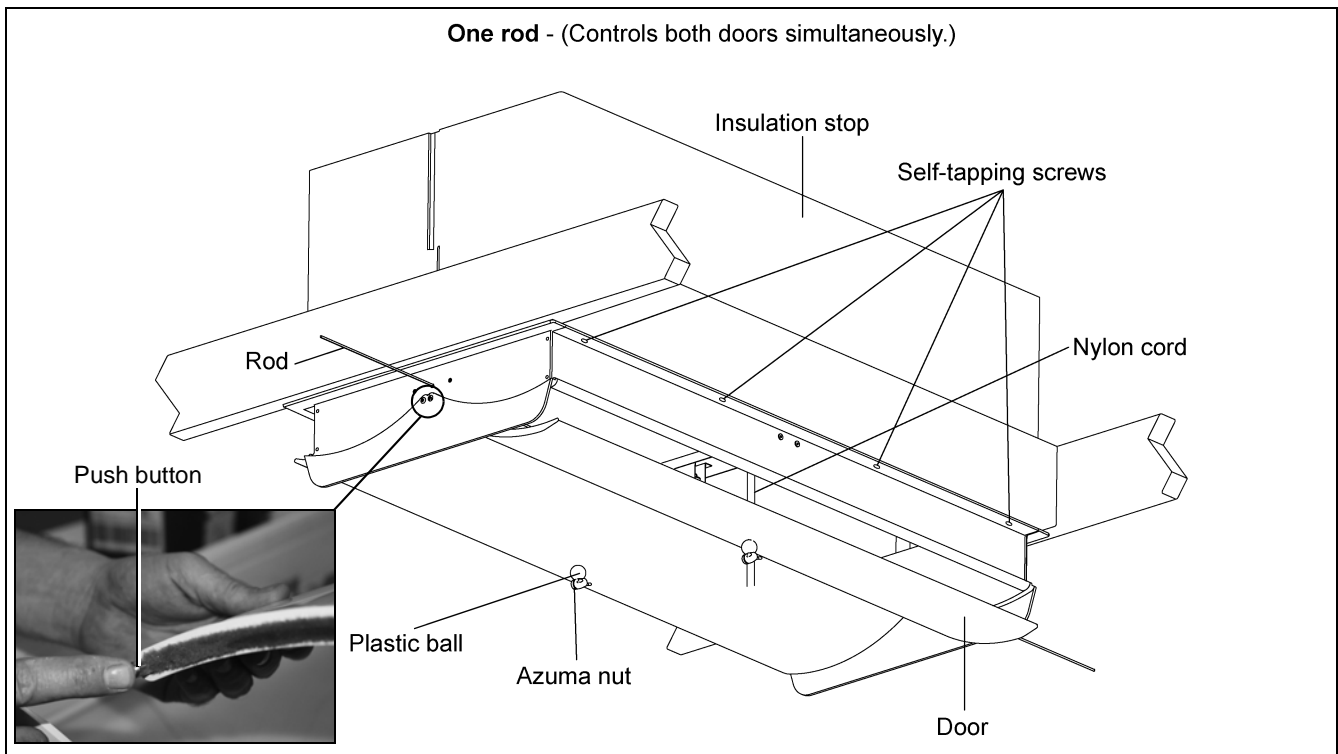


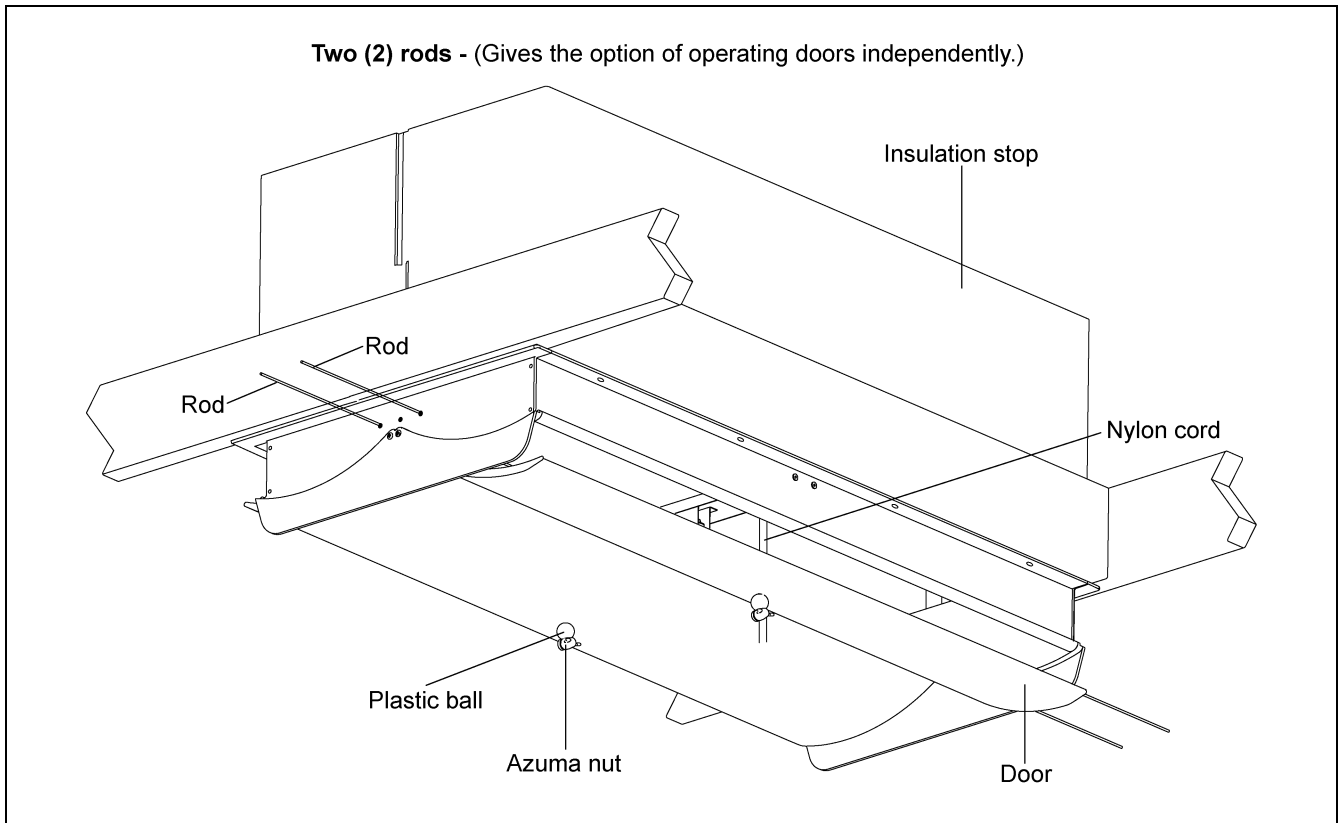
Figure 2



# Mechanical Actuated Attic Vent with Plastic Frame and Doors



**Figure 3** *One Control Rod*



**Figure 4** *Two (2) Control Rods*

# Mechanical Actuated Attic Vent with Plastic Frame and Doors

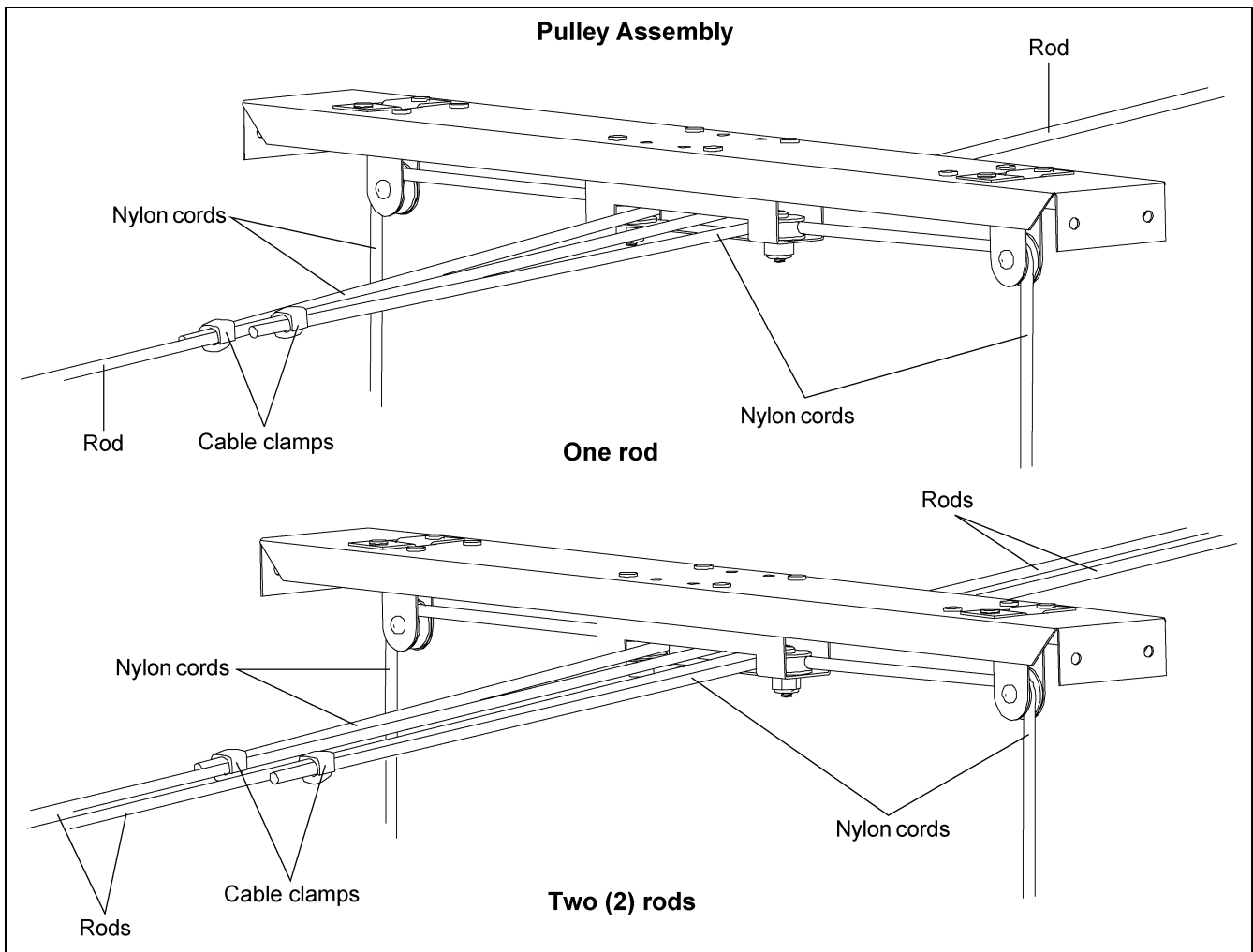


Figure 5

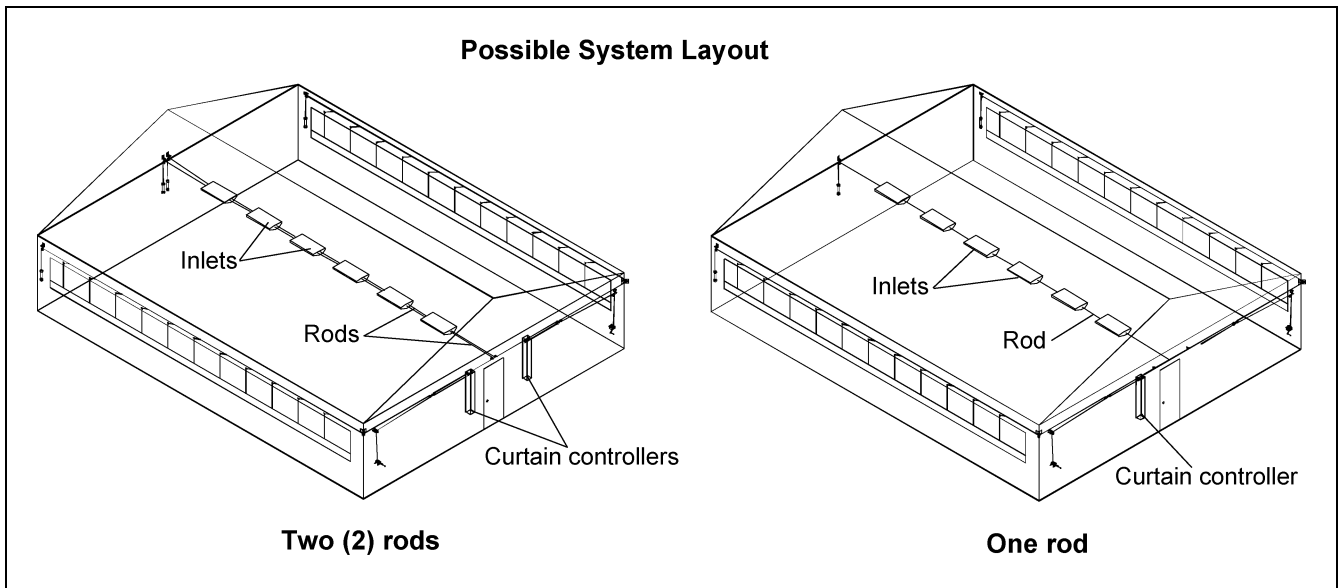


Figure 6

End Installation - One Row of Inlets (2 to 1)

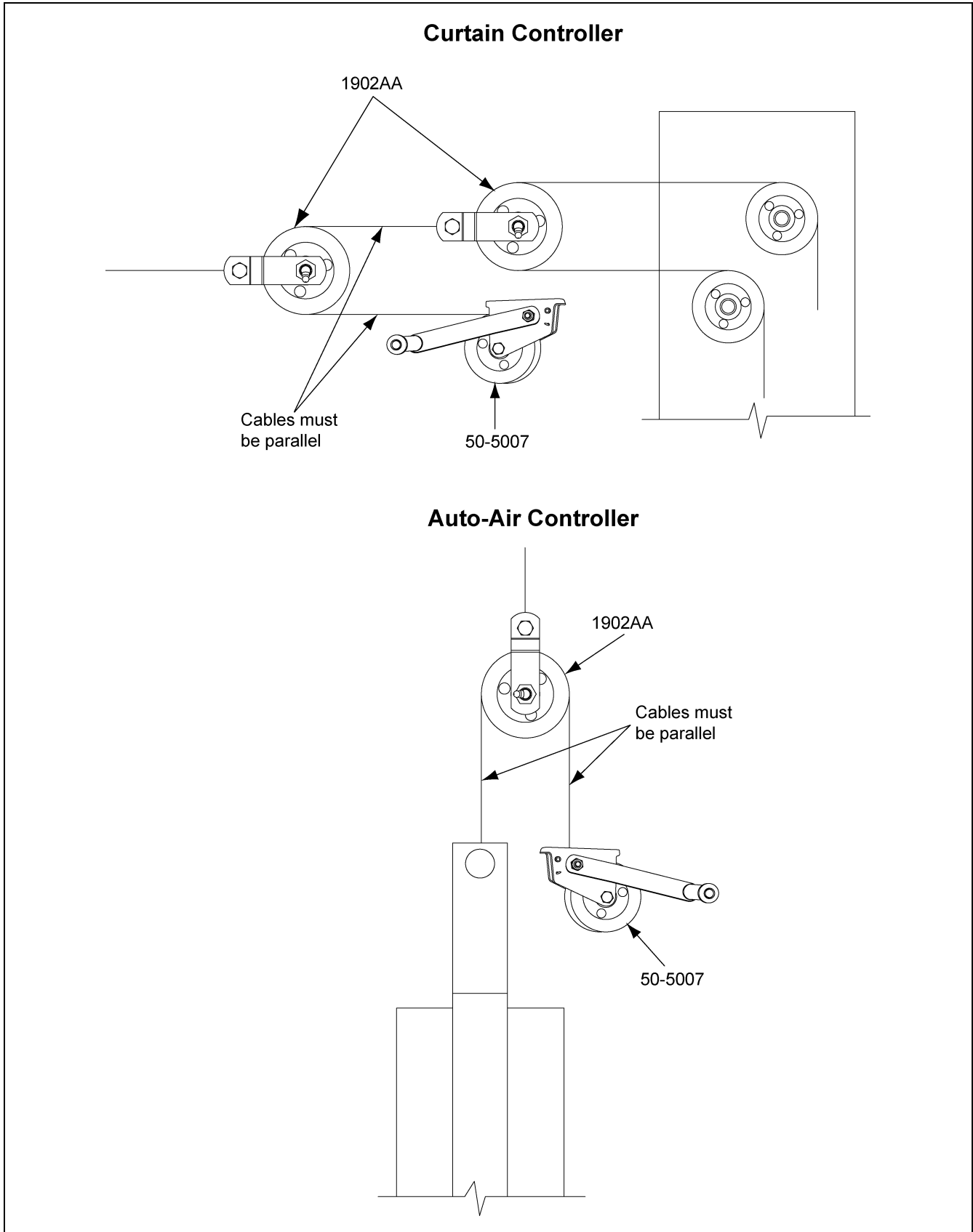


Figure 7

Middle Installation - One Row of Inlets (2 to 1)

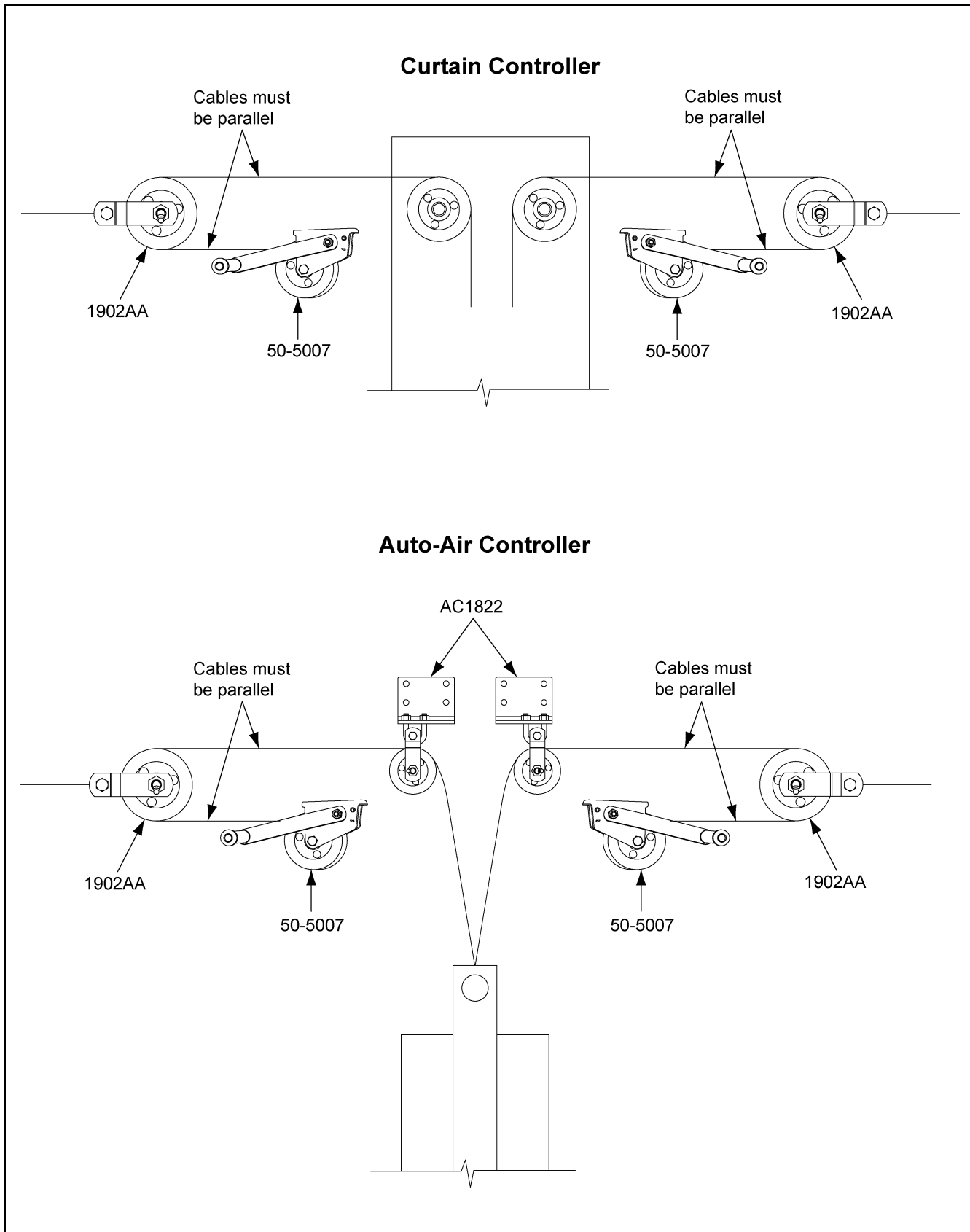


Figure 8

End Installation - Two (2) Rows of Inlets (2 to 1)

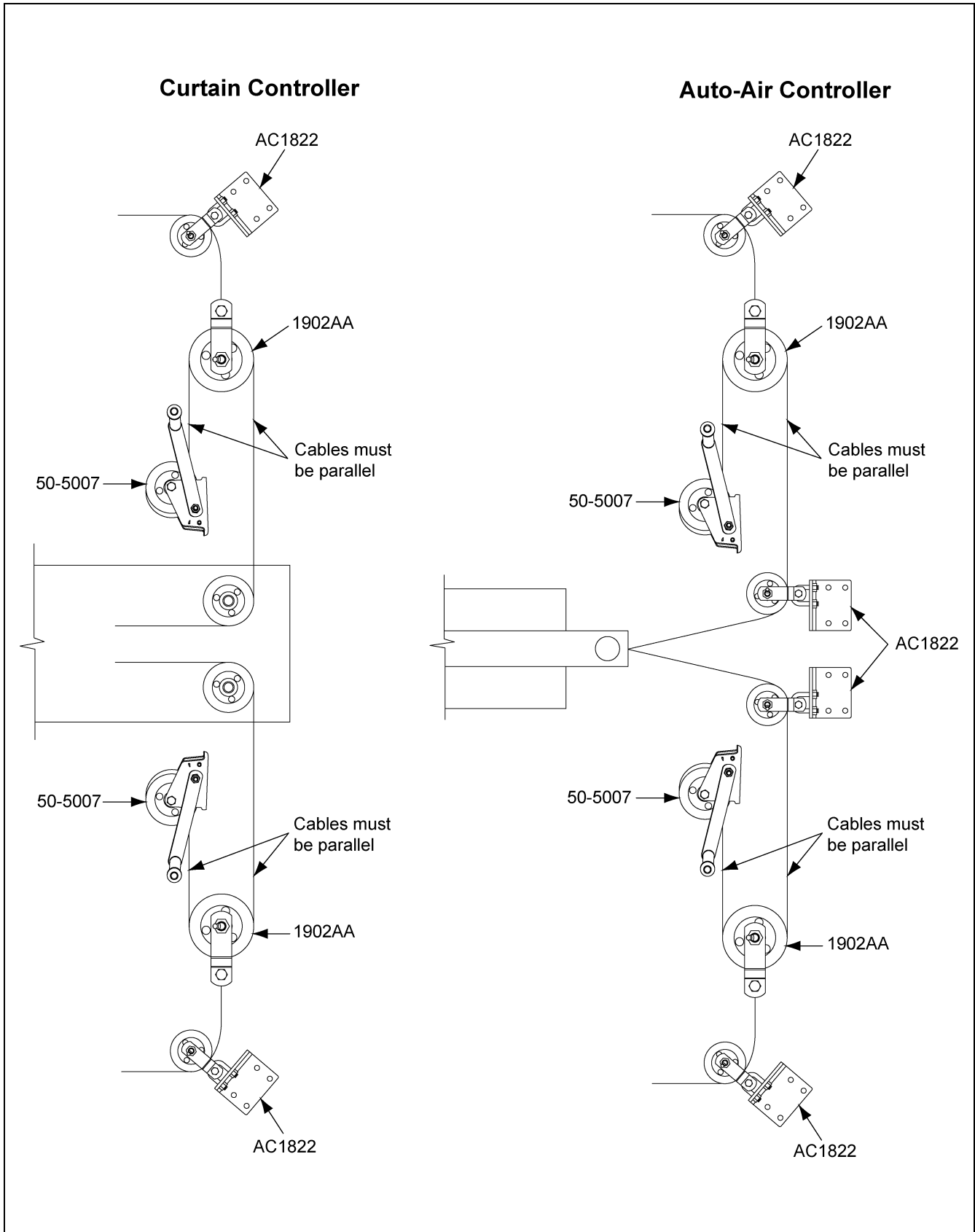


Figure 9

Middle Installation - Two (2) Row of Inlets (2 to 1)

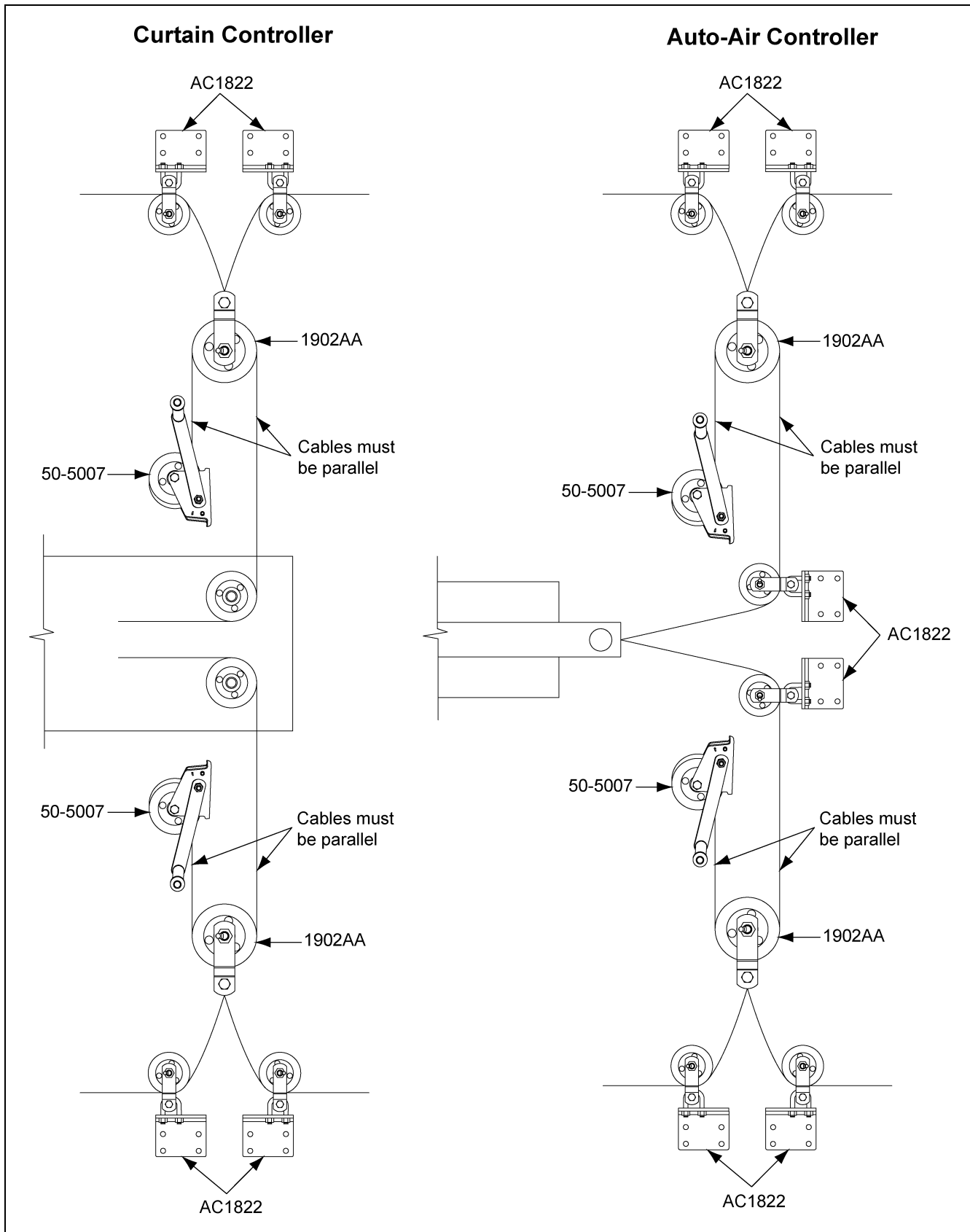


Figure 10

# Mechanical Actuated Attic Vent with Plastic Frame and Doors

## Maximum Inlets per Actuator - Maximum Run Length

Actuator Type	Maximum Number of Inlets per Controller		Maximum Run Length (Feet)
	1:1 Pulley Ratio	2:1 Pulley Ratio	
Auto-Air Controller	16	24	150
Curtain Controller	48	72	150

\* For maximum accuracy limit run length to 150'.

## Rated Airflow - Door Opening - Actuator Travel

Inlet Model	Door Position at Full CFM Rating		Door Position Restricted to Horizontal	
	Rated CFM at 0.10 Static Pressure	Maximum Opening (in.)	Rated CFM at 0.10 Static Pressure	Opening at Horizontal (in.)
ACI-4000P2	4100	8	2500	4-1/2
ACI-2800P2	2500	8	1500	4-1/2
ACI-2500P2	2200	8	1300	4-1/2

\* If the pulley ratio is 1:1 the travel needed in the actuator is the same as the maximum opening listed above.

\* If the pulley ratio is 2:1 the travel needed in the actuator is twice the maximum opening listed above.

## Actuator Run Times (Seconds)

Horizontal Restriction	Curtain Controller 30 RPM 1 to 1 Pulley Ratio (6 in./min.)	Curtain Controller 30 RPM 2 to 1 Pulley Setup (3 in./min.)	Auto-Air Controller 1 to 1 Pulley Setup (15 in./min.)	Auto-Air Controller 2 to 1 Pulley Setup (7.5 in./min.)
No	65	130	26	52
Yes	45	90	18	36

\* Actuator run times in this table are approximate. Actual run times may vary slightly. To determine the most accurate time manually run the inlets open and/or closed and time with a stop watch.

\* For 15 RPM curtain controllers multiply run times by 2.

\* For 60 RPM curtain controllers multiply run times by 1/2.

## Tension Spring Specifications (AP-2877)

Initial Length	31"	Full Extension Length	57"
Initial Load	19 Lbs.	Full Extension Load	81 Lbs.