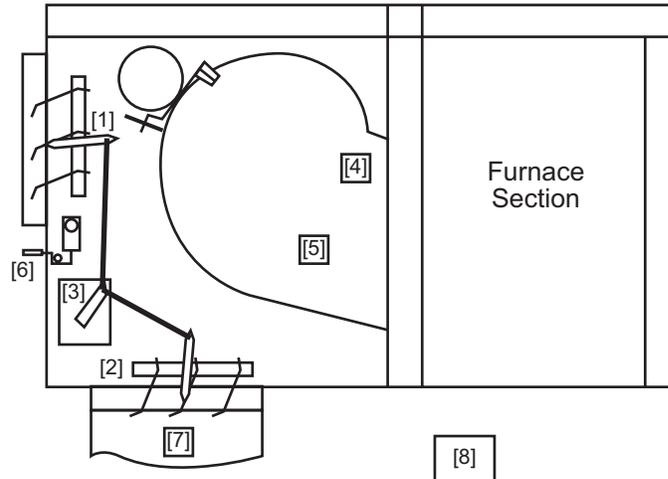


# AIR CONTROL SYSTEMS

MODELS SCE, XE, PGBL, AND SSCBL (unless otherwise noted)



- **Standard Arrangement** [1] Horizontal air inlet opening, no dampers, no duct flanges (Models XE and SCE)  
[2-8] N/A
- **Reznor Option AR4** [1] N/A [2] Bottom air inlet opening, no dampers, no duct flanges  
(Models SSCBL, PGBL only) [3-8] N/A
- **Reznor Option AR5** [1] Horizontal air inlet opening with duct flanges and insulation, no dampers  
(Models XE, SCE only) [2-8] N/A
- **Reznor Option AR8** [1] Outside air damper 100% [2] N/A  
[3] Outside air damper motor (two-position) [4-8] N/A

Includes outside air damper and two-position damper motor. Use where makeup air will be supplied intermittently. When turned off, the damper closes off the outside air. When turned on, the damper opens fully to outside air. Usually is interlocked with building exhauster to work in unison.
- **Reznor Option AR9** [1] Outside air damper 100% [2] N/A  
[3] Outside air damper motor (modulating)  
[4] Potentiometer [5-8] N/A

Includes outside air damper, modulating damper motor, factory-installed potentiometer (in blower cabinet), and a damper relay. Low flow is accomplished by positioning the damper through the potentiometer to throttle outside air as it enters the unit. High flow is accomplished by positioning the damper to full open. On shut down, outside air damper closes. On start up, damper moves from closed position to one of two settings, depending on the amount of makeup air required (may be governed by two-speed exhauster). Always size motor and drive based on high flow air.
- **Reznor Option AR10** [1] Outside air damper 100% [2] N/A  
(Models XE, SCE only) [3] Outside air damper motor (modulating)  
[4] Potentiometer (2) [5] N/A [6-8] N/A

Includes outside air damper, modulating damper motor, two potentiometers, and two damper relays, all factory installed. On start up, damper moves from closed position to one of three positions, depending on the amount of makeup air required. (May be governed by existence of three separate exhausters, which are interlocked with the relays to switch to proper potentiometer). The damper's action controls entering air to provide either full flow or two intermediate flows of makeup air. On shut down, the outside air damper closes. Motor and drive must be selected to provide the maximum air delivery.
- **Reznor Option AR11** [1] Outside air damper [2] Return air damper [3] N/A [4] N/A  
[5] N/A [6] N/A [7] N/A [8] N/A

Not shown - manual locking quadrant

Outside air damper and return air damper linked together at manual quadrant. Use when mix of more than 30% of outside air is required on a permanent basis. Damper is adjusted and locked at setting by installer or air balance expert. Must have makeup air control system.

# AIR CONTROL SYSTEMS

## INDOOR MODELS SCE, XE, PGBL, AND SSCBL (unless otherwise noted) (cont'd)

- **Reznor Option AR12**

[1] Outside air damper	[2] Return air damper	[3] Modulating damper motor
[4] N/A	[5] Mixed air controller	[6] N/A [7] N/A [8] N/A

Includes outside air damper and return air damper linked together at modulating damper motor. A mixed air control is included and monitors the mix temperature at the blower discharge. The controller is usually set for 55°F and maintains its temperature by modulating the dampers to admit enough outside air to dilute the return air down to 55°F. As outside air reaches 55°F, the outside air damper is driven fully open, closing off recirculated air and admitting 100% outside air. On shut down, the outside air damper closes.
- **Reznor Option AR13**

[1] Outside air damper	[2] Return air damper	[3] Modulating damper motor
[4] Potentiometer	[5] Mixed air controller	[6] N/A [7] N/A [8] N/A

Includes outside air damper and return air damper linked together at modulating damper motor. A mixed air control and potentiometer are included. The mixed air control is positioned to monitor the blower discharge air temperature and is usually set for 55°F. The potentiometer provides adjustment of the outside air damper to a minimum opening for full-time admittance of outside air. The mix control, therefore, is overridden by the potentiometer, allowing for specified introduction of outside air at all times, regardless of mix control demands. On shut down, the outside air damper closes.
- **Reznor Option AR14**

[1] Outside air damper	[2] Return air damper	[3] Two-position damper motor
[4] N/A	[5] N/A [6] N/A	[7] Warm-up control [8] N/A

Includes outside air damper, return air damper, two-position damper motor, warm-up control. Provides a warm-up period, which is accomplished by means of the warm-up control which allows the unit to operate with 100% recirculated air until such time as the return air has reached a predetermined setting (suggested to be 65°F, or 5°F below the thermostat setting). Upon reaching the set point, the damper system is energized to move to 100% outside air. On shut down, the outside air damper closes.
- **Reznor Option AR15**

[1] Outside air damper	[2] Return air damper	[3] Modulating damper motor
[4] Potentiometer	[5] Mixed air controller	[6] Outside air changeover (optional)
[7] Warm-up control	[8] N/A	

Includes outside air damper, return air damper, modulating damper motor, potentiometer for adjustment of minimum outside air, warm-up control, mixed air control. Provides a warm-up, which is accomplished by means of the warm-up control which allows the unit to operate with 100% recirculated air until such time as the return air has reached a predetermined setting (suggested to be 65°F, or 5°F below the thermostat setting). Upon reaching the set point, the damper system is energized to move to mix mode with a minimum outside air stop on the damper system. When mechanical cooling is used, an additional outside air changeover (not included) is required which, when exposed to outdoor temperature at set point, usually 75°F, will transfer the damper to 100% recirculated air.
- **Reznor Option AR16**

[1] Outside air damper	[2] Return air damper	[3] Modulating damper motor
[4] N/A	[5] Mixed air controller	[6] N/A
[7] Warm-up control	[8] N/A	

Includes outside air damper, return air damper, modulating damper motor, warm-up control, and mixed air controller. Provides a warm-up period, which is accomplished by means of the warm-up control which allows the unit to operate with 100% recirculated air until such time as the return air has reached a predetermined setting (suggested to be 65°F, or 5°F below the thermostat setting). Upon reaching the set point, the damper system is energized to move to mix mode, which will be set at approximately 55°F, through the mixed air control. On shut down, the outside air damper closes.
- **Reznor Option AR17**

[1] Outside air damper	[2] Return air damper	[3] Two-position damper motor
[4] N/A	[5] N/A [6] N/A	[7] N/A [8] N/A

Outside air damper and return air damper linked together at two-position damper motor. Unit may be programmed by time clock or manual switch to admit outside air during occupied period and recirculate room air during unoccupied periods. May be interlocked with exhaust fan so that both exhaust fan and outside air damper work in unison to permit flow of makeup air. On shut down, the outside air damper closes.
- **Reznor Option AR18**

[1] Outside air damper	[2] Return air damper	[3] Modulating damper motor
[4] N/A	[5] N/A [6] N/A	[7] N/A [8] Remote potentiometer

Includes modulating damper motor and remote potentiometer. The percentage of outside air in the mix may range from 0% to 100%, depending on the manual positioning of the potentiometer. This is not an automatic system, since a manual adjustment of potentiometer is required to change the amount of outside air being admitted to the building. On shut down, the outside air damper closes.
- **Reznor Option AR23**  
(Models SSCBL, PGBL only)

[1] Outside air damper	[2] Return air damper	[3] Modulating damper motor
[4-8] N/A	Not shown - remotely located pressure null switch	

Includes outside air damper and return air damper linked together at modulating damper motor. The amount of outside air is automatically controlled by a remote pressure null switch. On shut down, the outside air damper closes.
- **Reznor Option AR24**  
(Models SSCBL, PGBL only)

[1] Horizontal air inlet opening with duct flanges and insulation, no dampers		
[2] Bottom air inlet opening with duct flanges and insulation, no dampers		
[3-8] N/A		

Designed for installation of field installed damper system.