



SUPPLY FAN CONTROL

Modulate the supply fan VFD to maintain the discharge plenum or supply duct static pressure required to satisfy the design air volume when all VAV boxes are fully opened.

RETURN FAN CONTROL

Modulate the return fan VFD to maintain the return plenum or return duct static pressure required to satisfy the design air volume when all VAV boxes are fully opened.

ZONE PRESSURE CONTROL

Modulate the return VAV box to maintain the required supply and return differential at each zone.

MINIMUM OUTSIDE AIR CONTROL

If the minimum OA rate is less than the minimum OA setpoint, modulate the outside air damper and return air damper, in sequence, to maintain the minimum outside airflow rate required to meet requirements for dilution ventilation.

Startup the system with the outside air damper at a fixed minimum position and the return air damper opened.

Dampers shall be sequenced by first modulating the outside air damper. If the outside air damper reaches its fully opened position, begin to modulate the return air damper closed until the setpoint is maintained. If the outside airflow rate exceeds the minimum setpoint, do nothing (the pressurization flow required to satisfy zones is greater than the minimum OA setpoint). Open the relief air damper when the bleed flow across the damper is greater than 0 fpm.