

On new construction or when inspecting an existing HVAC system that will include an EWC Controls Zoning system, you should determine if the duct is correctly sized to handle the volume of air delivered from the HVAC system. You should also determine if the HVAC system was sized correctly for the number of buildings. In order to do all of that, a load calculation should be performed. Once it has been determined that the HVAC equipment and the duct work are correctly sized, then you may install an EWC Controls Forced Air Zone System. Otherwise, HVAC equipment and duct-work issues should be addressed prior to installing an Air Zone system. EWC provides Zone System Design Guidance that predates and complements the ACCA Manual D.

Since the zoned heating and cooling requirements will be controlled through air zone dampers, the concern is how to effectively manage the airflow and volume resulting from closed and semi-closed air zone dampers. This means that as zones are satisfied, the airflow to those zones will be completely or partially shut off. This creates air volume build-up in the duct which can be dealt with using a combination of tools that help manage airflow and volume.

Tools that help manage airflow and volume:

1. **Whenever possible, specify Multistage or Modulating HVAC systems when zoning.** This allows the EWC zone control system to match HVAC system capacity to the individual zone demands.
2. **Select the correct Zone Control system for that HVAC system and the number of zones you want to create.** Consider finer staging or thermostatic staging depending on preference and budget.
3. **If necessary, modify the existing duct and/or install new duct that has been sized at a 1000 ft rate that will accommodate higher CFM values at CFM specified static pressures and industry standard velocities.** (Use ACCA Manual D to size your duct work or use a duct calculator and select 100 ft/min rate value instead of the typical 100).
4. **Whenever possible, install Dampers in the Branch Runs, rather than Duct Trunks.** Now you can select which branch runs to dampen and which runs to leave alone (Open Runs). This method provides airflow in certain areas every time the HVAC system operates. Bathrooms, Large Offices and Washer/Dryer areas should not be dampened.
5. **Allow some or all Zone dampers to leak 10% to 20% air volume when closed.** When properly adjusted, this small amount of air leakage can offset the heat gain or heat loss in a particular zone and reduces air stratification.
6. **Install a Bypass Damper, if there is sufficient clearance and route the bypass air back to the return duct or to a rarely used area of the home.** The bypass damper is the most common and effective tool available to manage airflow and static pressure in a zoned HVAC system.
7. **Install a Balancing Hand Damper in the Bypass Duct.** The balancing hand damper allows you set sufficient pressure differential across the bypass duct, preventing the bypass duct from being the path of least restriction.
8. **Balance the System.** All HVAC systems needs to be balanced and an air zoned system is no exception. Use the zone damper itself to restrict or allow more flow in a particular zone and/or install balancing hand dampers in the branch runs.

Ewc Controls Inc Troubleshooting Guide

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