

## Trouble Shooting Tips

Thermally and electronically actuated diffusers work efficiently and effectively. If there are problems with the system or the directions sent with the diffuser are not followed, problems may occur. Below are some of the symptoms or complaints and the solutions that will solve the problems.

### **Problem**

Cannot get enough CFM through the diffuser

### **Solution**

Make sure that plastic strap is cut prior to installation

### **Problem**

Dampers will not operate in the cooling mode

### **Solution**

1. Make sure that the plastic strap is cut prior to installation.
2. Do not put sheet metal screws through duct and into the collar. This will distort the shape of the sleeve damper, and it will not operate.
3. The appearance panel must be securely closed & clipped properly in order for the unit to operate properly. If the appearance panel is not secured properly, there will be air leakage around the induction guide which will cause an element sensing problem. (This can also happen with heating units).
4. Damage in shipping- If the unit is damaged in shipping or mishandled during installation, there is a possibility that the damper may be jarred against the collar of the unit. This may be checked by opening the access door, removing the allen set screw from the centerpost and inserting a minimum set point pin. The damper should move up and down freely. Should the damper not move freely, the base plate may be off center and may be shoved back into the center point allowing the damper to move freely.

**Problem**

Damper will not operate in the warming mode

**Solution**

1. All units are shipped with the damper fully closed in the heating position.

**Problem**

Excessive noise

**Solution**

1. Vari-Flow diffusers are designed for low pressure systems. There could be an apparent noise problem with the diffuser. When the static pressure increases in the neck, the sound level will increase.

Pressure should be checked at the diffuser by sliding the appearance panel door open and inserting a pressure probe. The pressure should be .5" or below. Balancing dampers cannot be used to overcome a static pressure imbalance. Some of the options are to use relief rings, a static pressure controller or a variable speed drive on the fan.

