

## **AIR CONDITIONING INSTALLATION INSPECTION**

*All installations of residential air conditioning condensing units require an electrical permits, as well as a mechanical permit, and the related inspections. This applies to new and replacement equipment.*

### **PIPING**

1. Air conditioning (AC) suction line and downstream of TXV (if outside of coil cabinet) must be insulated.
2. Support copper tubing at the maximum horizontally to 6' on center and copper pipe to 12' on center.
3. Joints in copper tube used for refrigerating systems containing Group A2, A3, B2 or B3 refrigerants must be brazed. Soldered joints cannot be used in such refrigeration systems. Mechanical joints cannot be used in annealed copper tubing larger in size than 7/8" outside diameter.
4. Soft annealed copper tubing or refrigerant piping containing other than Group A1 or B1 refrigerants must be enclosed.
5. Tests are required for both the high and low pressure sides of each system at no less than the design pressures. If no condenser installed, test at 300 pounds. This also applies to AC preps on new construction, unless the system is 5 tons or less, and the field installed piping is an approved factory charged line set without joints concealed in the building construction.
6. Provide vibration protection where piping enters cabinet at coil and condenser.

### **CONDENSER**

1. Clearances per manufacturer's specifications.
2. Support is minimum of 3" above grade.
3. Service outlet located within 25 feet.

### **COIL**

1. The coil case is to have an area not less than 90% of the furnace outlet collar. If less than 90%, verify acceptance per furnace listing and/or installation instructions.
2. Provide condensate drain and trap if required per manufacturer's installation instructions.
3. Provide overflow drain if required. Drain must be labeled and terminate at either a floor drain or readily observable location.
4. Duct work to be sealed substantially air tight.

Carbon Monoxide detectors will be required to be installed in all locations required per code if the home has an attached garage or contains a fuel-fired appliance.