

# Missouri Manufactured Housing and Modular Units Program

## **Air Conditioner Installation**

*Refer to appliance manufacturer's installation instructions for complete installation requirements.*

1. Wire to the air conditioner is to be in conduit (under the home).  
When the wire is 4 ft. or *less* in length it can be flexible conduit.  
When the wire is 4 ft. or **more** in length it must be rigid non-metallic conduit.  
The conduit is to be fastened every 4 ft. 6 in. 3280.808(k) & Interpretative Bulletin I-2-77.
2. Do not install the air conditioner wire through the main entrance conduit going through the floor up to the electrical panel-board. "Conductors other than service conductors shall not be installed in the same service raceway or service cable" Article 230.7 of the 2008 NEC.
3. The A/C wire is to be run to the electrical panel-board NOT to the furnace disconnect.
4. Where the A/C wire enters the electrical panel-board a protective grommet or bushing is to be installed and securely fastened in the opening prior to installation of the cable.  
Article 551.47(G) of the 2008 NEC.
5. When the air conditioner wire is installed through a perimeter wall – proper protection of the wire is to be through a protective sleeve.
6. The breaker installed in the main electrical panel-board is to be the same brand as the panel-board. The wrong brand of breaker could void the warranty on the panel-board.  
Example: Siemens panel-board requires Siemens breaker.  
Mark the panel-board to identify the A/C breaker.
7. The A-coil is to have filters on each side and fastened to the furnace per the appliance manufacturers installation instructions.
8. The air conditioner drain line from the drip pan is to have a loop installed in the line so it acts as a trap per the appliance manufacturers installation instructions.
9. Where the supply lines for the air conditioner enter at the bottom of the furnace enclosure they are to be fire-stopped. 3280.206(c) Use an approved fire-stopping material - insulation is not to be used for fire-stopping. Foam must be approved for fire-stopping NOT draft stopping.
10. Holes made in the bottom board for a/c installation are to be properly sealed and/or repaired. 3280.307(d)
11. A disconnecting means shall be located within sight of the air conditioner equipment.  
Article 550-20(B) of the 2008 NEC.
12. Condensation drain line to terminate the perimeter foundation and/or skirting per the appliance manufacturers installation instructions or 6- inch minimum and 24- inch maximum from finish grade.