

Date: December 28, 2001
Subject: Equipment use during New Construction/Remodeling

Introduction:

The purpose of this Technical Service Bulletin is to remind dealers, builders, and end users about the use of geothermal systems during the construction process. The procedures discussed are guidelines to be adhered to during the equipment installation. *Failure to follow these guidelines may result in voiding the equipment warranty, increased service issues, reduced equipment life, efficiency and performance.* Any questions should be directed to the Technical Service Department at 1 800 299-9747 in Oklahoma City, OK or your local Sales/Field Technical Manager.

Unit Installation Concerns

Review the Installation, Operation, and Maintenance (IOM) manual supplied with each unit (see **Important Notices** above the Physical Data chart, located near the front of each manual). DO NOT use these units as a source of heating or cooling during the construction process. The mechanical components and filters used in these units will quickly become clogged with construction dirt and debris, which may cause system damage.

Closed Loop Installation Concerns

Another consideration with while operating the equipment during the construction is extreme stress to the fluid temperature in the loop system. Properly designed and sized units for a building are based upon the completed structure's Heat Gain/Loss. This Heat Gain/Loss calculation has a direct relationship to the building envelope. It is used to determine equipment and loop size. If the building construction process is incomplete, and the unit is operated, this can cause additional stress on the Closed Loop system, lowering the amount of heating or cooling capacity available, while increasing the operating cost, and decreasing the equipment efficiency. Stressed Loops eventually do recover, but may take 12 months or more to recuperate to a normal level.

Ductwork Installation Concerns

Utilization of the duct system before the construction dust and debris (i.e. drywall dust, sawdust, etc) are contained may contaminate the newly installed unit, causing additional concerns for the equipment life, performance, efficiency, as well as cause homeowner Indoor Air Quality concerns.

ClimateMaster STRONGLY encourages the use of an ALTERNATE Source for Heating/Cooling the building until the construction process is complete.