



APPLICATION AND DESIGN GUIDELINES

Lennox Refrigerant Piping DESIGN AND FABRICATION GUIDELINES

Corp. 9351-L9
February 25, 2008

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Introduction

The piping design of any air conditioning system will affect the performance, reliability, and applied cost of that system. The design of refrigerant piping systems involves capacity and efficiency, reliability, oil management, refrigerant charge, sound level, liquid refrigerant control, modulation effectiveness and cost. Therefore it is essential that the installing contractor understand the effect of piping and be able to make intelligent decisions in order to do the best job possible on the installation. This material below will clearly explain the basic effects on system performance of the piping design.

In most typical installations with lines less than 50 feet, the line sizes will match up to the connections on the outdoor unit. However, with installations involving long line sets or elevation differences between the outdoor unit and the indoor unit, the piping must be sized carefully. System performance may be improved even in a typical installation by optimizing pipe sizes.

The intent of this manual is to represent generally accepted safe engineering practices. Specifications and limits outlined in this manual are subject to change. System design should conform to all codes, laws and regulations applying at the site at the time of installation. Additional documents that should be followed include The Safety Code for Mechanical Refrigeration and the Code for Refrigeration Piping, both available from ASHRAE. In addition, the procedures and limits outlined in this manual do not supersede local, state or national codes under any circumstances.

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