

4.3.5 Spinoff Applications and Future Directions

Through the ASHRAE journal article and the ASHRAE meetings, DOE's efforts to develop the unequal parallel supermarket refrigeration system appear to have promoted the development and use of variable speed compressors for supermarket refrigeration and for air conditioning systems in shopping centers. As a more advanced application of the capacity modulation principle, it is likely that variable speed compressor systems will soon replace the unequal parallel system for supermarket refrigeration, because of advantages in cost and reliability. DOE can take some credit for the energy-savings that will thereby result, because of the early role they played in promoting applications of the capacity modulation principle.

The computer design model sponsored by OBCS is currently being used by EPRI. Safeway has teamed up with EPRI in Oakland to test unequal parallel systems in California, and provide a more solid basis of comparison between the competing systems. Advances being built into the improved design by EPRI include better condensers and subcooling.

4.3.6 Sources of Information

Interviews

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Mort Blatt, Electric Power Research Institute, Palo Alto, California, August 1987.

Dean Calton, H. E. Butt Groceries, Corpus Christi, Texas, August 1987.

Robert Coleman, Food Marketing Institute, Washington, D.C., August 1987.