

# Emerging Technology

## Variable Speed, Low Cost Motor for Residential HVAC Systems

Today, variable speed motors are used in only 5% of residential HVAC systems. The reason is cost. Existing variable speed motors cost at least 4 times as much as single speed motors. A revolutionary low-cost, brushless, variable speed motor technology is being developed that uses solid state switches on the rotating armature to control motor torque and speed. A variable speed motor running continuously at a 1/2 speed uses 1/4 of the power to move the same amount of air in an HVAC blower thus saving energy.



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