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- Understanding SEER Ratings for Mobile Home Cooling Understanding SEER Ratings for Mobile Home Cooling Tracking Power Usage in Mobile Home Heating Systems Adapting Mobile Homes for High Efficiency HVAC Equipment Comparing SEER Values to Lower Energy Costs in Mobile Homes Evaluating ROI of Efficient Upgrades in Mobile Home Air Conditioning Minimizing Heat Loss with Insulation for Mobile Home HVAC Achieving Energy Savings with Variable Speed Motors in Mobile Homes Choosing Thermostat Controls for Better Mobile Home Efficiency Calculating Long Term Benefits of Efficient Mobile Home Furnaces Checking Duct Seal Quality for Improved Mobile Home SEER Performance Pinpointing Energy Loss in Mobile Home HVAC Installations Monitoring Seasonal Impacts on Mobile Home AC Efficiency
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Achieving Energy Savings with Variable Speed Motors in Mobile Homes

How SEER Ratings Impact Energy Efficiency in Mobile Homes

Title: Achieving Energy Savings with Variable Speed Motors in Mobile Homes

In the quest for energy efficiency, mobile homes present a unique challenge. Their compact design and often limited insulation can lead to higher energy consumption compared to traditional homes. However, one innovative solution that is gaining traction is the use of variable speed motors. These motors offer a promising avenue for reducing energy usage while maintaining comfort and functionality within mobile homes.

Variable speed motors are an advanced type of electric motor that can operate at varying speeds rather than being confined to a single fixed speed. This capability allows them to adjust their output to match the specific demand of the application they are serving. Thermostat settings should be adjusted seasonally for maximum efficiency **Mobile Home Air Conditioning Installation Services** technician. In contrast, traditional motors run at full capacity regardless of the actual requirements, leading to unnecessary energy expenditure.

The primary advantage of variable speed motors lies in their ability to provide precise control over mechanical systems. For mobile homes, this means that systems like heating, ventilation, and air conditioning (HVAC) can be finely tuned according to the occupants' needs and external weather conditions. By modulating their speed, these motors ensure that only the necessary amount of energy is used at any given time, which significantly reduces waste and leads to lower utility bills. Moreover, variable speed motors contribute to enhanced comfort levels within mobile homes. For instance, in an HVAC system equipped with such a motor, temperature regulation becomes smoother and more consistent. Instead of experiencing abrupt changes in climate when a traditional motor switches on or off at full power, occupants enjoy a more gradual transition as the variable speed motor adjusts incrementally. This subtlety not only enhances comfort but also extends the lifespan of HVAC components by reducing wear and tear associated with frequent starts and stops.

Another noteworthy benefit is noise reduction. Traditional motors tend to generate more noise due to their on/off cycling at full capacity. In contrast, variable speed motors operate more quietly since they usually avoid running at maximum speeds unless absolutely necessary. This aspect is particularly advantageous in mobile homes where space is limited and noise can easily become intrusive.

Furthermore, embracing variable speed technology aligns with broader environmental goals by minimizing carbon footprints. Reduced energy consumption directly correlates with decreased demand on power plants and fewer greenhouse gas emissions-a significant consideration as society seeks sustainable living solutions.

Implementing variable speed motors into existing systems in mobile homes may require an initial investment; however, this cost is often offset by long-term savings on energy bills coupled with potential incentives from government programs aimed at promoting green technologies.

In conclusion, variable speed motors represent a pivotal advancement for achieving energy savings in mobile homes without compromising occupant comfort or system performance. Their ability to dynamically adjust operation based on real-time demands makes them indispensable tools for modernizing portable living environments while contributing positively towards environmental sustainability efforts worldwide. As awareness grows about their benefits-both economically and ecologically-the adoption rate among homeowners looking for efficient solutions will likely continue its upward trajectory well into future generations of residential innovations.

The Relationship Between SEER Ratings and Cooling Costs —

- How SEER Ratings Impact Energy Efficiency in Mobile Homes
- The Relationship Between SEER Ratings and Cooling Costs
- Choosing the Right SEER Rating for Your Mobile Home HVAC System
- Factors Influencing SEER Rating Effectiveness in Mobile Homes
- Comparing SEER Ratings Across Different Mobile Home Cooling Systems
- Tips for Maintaining Optimal Performance of High-SEER Rated Systems
- Future Trends in SEER Ratings and Mobile Home Cooling Technology

In the quest for greater energy efficiency, especially in mobile homes where space and resources are at a premium, variable speed motors present a compelling solution within HVAC systems. Mobile homes often face unique challenges related to insulation and airflow, making efficient heating and cooling not only a matter of comfort but also of economic necessity. By integrating variable speed motors into HVAC units, mobile home owners can achieve significant energy savings along with other notable advantages.

Variable speed motors differ from traditional single-speed models by adjusting their operational speed to match the specific demands of the environment they serve. In a mobile home setting, this adaptability is crucial. Traditional single-speed motors operate at full capacity regardless of necessity, often resulting in wasted energy during periods of lower demand. Conversely, variable speed motors modulate their output efficiently, maintaining optimal performance while consuming less power. This not only reduces electricity bills but also decreases wear and tear on the system, prolonging its lifespan and reducing maintenance costs.

Beyond mere cost savings, variable speed motors enhance temperature control within mobile homes-a critical factor given their generally smaller size compared to standard houses. These motors provide precise control over airflow and temperature levels by operating steadily rather than in sporadic bursts. As a result, they eliminate the frequent on-and-off cycles associated with traditional systems that can lead to uncomfortable temperature fluctuations. Instead, occupants experience a more consistent climate with improved humidity control, contributing

to overall comfort and well-being.

Moreover, quiet operation is another key advantage of using variable speed motors in HVAC systems for mobile homes. Traditional systems can be noisy when cycling on or off due to their fixed high-speed operation. In contrast, variable speed technology ensures smooth transitions between speeds without disruptive noise levels-a significant benefit considering the close quarters typical of mobile home living spaces.

Environmental impact is yet another area where variable speed motors shine. By optimizing energy use and reducing draw from the electrical grid, these systems help decrease carbon footprints-an increasingly important consideration for eco-conscious consumers looking to minimize their environmental impact.

In conclusion, equipping mobile homes with HVAC systems powered by variable speed motors offers numerous advantages: enhanced energy efficiency leading to cost savings; improved comfort through better temperature regulation; quieter operation; and reduced environmental impact. As technology continues to advance and awareness about sustainable living grows, embracing such innovations becomes an integral part of creating smarter and more sustainable residential environments-one where comfort does not come at the expense of economy or ecology.

Posted by on

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Choosing the Right SEER Rating for Your Mobile Home HVAC System

The quest for energy efficiency has become a central theme in modern living, and it is particularly poignant within the context of mobile homes. These dwellings often face unique challenges concerning space and energy consumption, making them ideal candidates for innovative solutions such as variable speed motors. The implementation of such technology not only impacts energy consumption but also leads to significant cost savings, contributing to more sustainable and economically viable housing options.

Variable speed motors are ingenious devices that adjust their speed based on the demand required at any given time, unlike traditional motors that operate at a constant speed regardless of necessity. This capability allows them to consume less energy when full power is not needed, which translates into reduced electricity usage. For mobile home residents, who may be acutely aware of their utility bills due to budget constraints or environmental consciousness, this reduction in energy use can be profoundly beneficial.

The impact on energy consumption is evident through the decreased reliance on electricity, which is particularly important in mobile homes where HVAC systems often represent a significant portion of the total energy expenditure. By modulating the motor speed based on real-time requirements-such as cooling during summer days or heating during winter nights-variable speed motors optimize the functioning of these systems. This optimization results in less wasted energy and ensures that resources are used judiciously.

Furthermore, the economic advantages associated with reduced energy consumption cannot be overstated. Lower electricity bills directly equate to cost savings for homeowners. Over

time, these savings can accumulate significantly, offering financial relief and enabling investments in other areas such as home improvements or even renewable technologies like solar panels. Additionally, many regions offer incentives or rebates for adopting energy-efficient technologies; thus, installing variable speed motors could provide immediate financial benefits beyond just lower utility costs.

Moreover, variable speed motors indirectly contribute to preserving our environment by decreasing overall demand for electricity generation from fossil fuels-a primary source of greenhouse gas emissions. As mobile home communities increasingly adopt these technologies, they collectively contribute to broader efforts aimed at reducing carbon footprints and promoting sustainability.

In conclusion, achieving energy savings with variable speed motors in mobile homes provides substantial impacts both environmentally and economically. These systems not only lower energy consumption but also deliver considerable cost savings over time while supporting global initiatives toward sustainable living. For residents seeking practical ways to reduce expenses without sacrificing comfort or convenience-and for society aspiring towards greener living environments-embracing variable speed motor technology represents a promising path forward.



Factors Influencing SEER Rating Effectiveness in Mobile Homes

Retrofitting existing mobile home HVAC systems to achieve energy savings is a practical consideration for homeowners looking to reduce their energy costs and enhance comfort. One of the most effective strategies in this regard involves the integration of variable speed motors into these systems. As we explore the considerations for such retrofitting, it becomes clear that both technical feasibility and cost-effectiveness play pivotal roles in decision-making.

Mobile homes, often characterized by their compact size and unique construction features, present specific challenges when it comes to upgrading HVAC systems. The first step in considering retrofits is assessing the current state of the existing system. This includes evaluating the age, condition, and efficiency of the current HVAC unit. Older units might not only be less efficient but also incompatible with modern components like variable speed motors without significant modifications.

Variable speed motors offer substantial benefits over traditional single-speed motors by adjusting the motor's operation based on real-time demands rather than operating at full capacity constantly. This adaptability allows for better temperature regulation, reduced energy consumption, and lower noise levels. However, integrating these motors into an existing system requires careful planning.

Compatibility is a primary consideration. Retrofitting may necessitate additional changes such as upgrading control systems or ductwork to accommodate variable speeds. It's essential to consult with an HVAC professional who can evaluate whether your existing infrastructure can support these modifications or if further upgrades are necessary.

Moreover, cost is always a crucial factor in any retrofit decision. While variable speed motors can lead to significant long-term savings on energy bills due to their efficiency, the initial investment can be substantial. Homeowners must weigh these upfront costs against potential savings and consider available incentives or rebates that could offset expenses.

Another important aspect is understanding how local climate conditions impact potential benefits from installing variable speed technology. In regions with extreme temperatures where heating or cooling demands fluctuate significantly throughout the day, variable speed motors can provide more pronounced advantages compared to areas with milder climates.

Finally, sustainability goals should not be overlooked in this equation. Beyond personal financial gains, adopting energy-efficient technologies aligns with broader environmental

objectives by reducing overall energy consumption and minimizing carbon footprints.

In conclusion, while there are several considerations when retrofitting mobile home HVAC systems with variable speed motors-ranging from compatibility issues and initial costs to climatic influences-the potential rewards are compelling. By enhancing system efficiency through smart technology upgrades like variable speed motors, mobile homeowners stand to gain not only financially but also contribute positively towards environmental sustainability efforts. Engaging knowledgeable professionals during this process ensures informed decisions that maximize both immediate comfort and long-term benefits.

Comparing SEER Ratings Across Different Mobile Home Cooling Systems

Achieving energy savings in mobile homes is a pressing concern, given the increasing focus on sustainability and cost efficiency. One promising solution lies in the implementation of variable speed motors. However, like any technological advancement, this approach comes with its own set of potential challenges that need to be addressed to ensure successful adoption.

Firstly, one of the primary challenges is the initial cost associated with installing variable speed motors. Mobile homeowners often operate within tight budget constraints, making it difficult to justify the upfront investment despite the long-term savings. This challenge can be mitigated through financial incentives and rebates offered by government programs or utility companies aimed at promoting energy-efficient technologies. By reducing the initial financial burden, homeowners may be more inclined to adopt these systems.

Another significant challenge is the lack of awareness and understanding among mobile homeowners about how variable speed motors operate and their benefits. Many people are

accustomed to traditional fixed-speed systems and may not readily see the advantages of upgrading. To overcome this barrier, educational initiatives should be prioritized. Workshops, informational campaigns, and partnerships with mobile home associations can play crucial roles in disseminating knowledge about energy efficiency and illustrating tangible benefits such as reduced electricity bills and improved system performance.

Technical compatibility presents another hurdle when implementing variable speed motors in mobile homes. Given that many mobile homes are older or have unique designs, retrofitting them with new technology can pose logistical difficulties. To address this issue, manufacturers could develop adaptable motor solutions that cater specifically to the diverse needs of mobile home structures. Collaboration between manufacturers and installers will also be essential to ensure seamless integration without compromising existing systems.

Furthermore, routine maintenance requirements for variable speed motors could deter some homeowners who prefer less complex systems they perceive as easier to maintain. Offering extended warranties or service packages could alleviate concerns around maintenance costs and complexity while ensuring optimal motor performance over time.

Lastly, there might be resistance from stakeholders who are skeptical about changing established practices within the industry due to perceived risks or uncertainties associated with newer technologies. Building trust through pilot projects demonstrating successful energy savings and reliability can help counteract skepticism.

In conclusion, while implementing variable speed motors in mobile homes presents several challenges-ranging from cost barriers to technical compatibility-there are numerous strategies available to surmount these obstacles. Financial incentives, educational efforts, tailored technical solutions, targeted maintenance offerings, and pilot demonstrations all serve as pathways toward overcoming resistance and fostering widespread adoption of this energy-saving technology. By addressing these challenges head-on with well-thought-out solutions, we can make significant strides toward achieving greater energy efficiency in mobile homes for a sustainable future.



Tips for Maintaining Optimal Performance of High-SEER Rated Systems

Achieving energy savings in mobile homes has become a critical goal as the world shifts towards more sustainable living practices. One promising avenue for achieving these savings is through the use of variable speed motors. These devices adjust their speed and power consumption according to the demands placed on them, resulting in significant energy efficiency improvements. To understand the impact of this technology, we can look at several real-world examples that demonstrate its effectiveness.

Consider a case study from a mobile home community in Florida, where residents faced persistently high electricity bills during the sweltering summer months. The community partnered with an energy solutions company to retrofit their air conditioning units with variable speed motors. The results were remarkable: residents experienced up to a 30% reduction in energy consumption, leading to substantial cost savings on their utility bills. Additionally, the consistent air flow provided by these motors improved indoor comfort levels, offering a more stable temperature without sharp fluctuations.

In another instance, a mobile home park in Arizona focused on upgrading its water pumps with variable speed technology. Traditionally, these pumps operated at full capacity regardless of demand, wasting significant amounts of energy. By installing variable speed motors, the park was able to tailor pump operation to actual water usage patterns throughout the day. This not only reduced energy consumption by about 25% but also extended the lifespan of the equipment due to less wear and tear from overuse.

A third example hails from a mobile home manufacturer that decided to incorporate variable speed motors into its new models as part of an eco-friendly initiative. By equipping heating and cooling systems with these advanced motors, they achieved an estimated 20-35% increase in overall energy efficiency compared to previous models with fixed-speed counterparts. This innovation became a selling point for environmentally conscious consumers who were eager to reduce both their carbon footprint and monthly utility expenses.

These case studies highlight not just isolated successes but also underline broader trends towards sustainability in residential settings. They illustrate how adopting modern technologies like variable speed motors can lead to meaningful reductions in energy usage while enhancing comfort and operational efficiency.

In conclusion, variable speed motors represent a potent solution for achieving energy savings in mobile homes-a sector historically challenged by inefficiencies due to limited space and outdated infrastructure. Through real-world applications and successful case studies, it becomes clear that such technological advancements are integral not only for individual households looking for cost-effective solutions but also for collective movements toward greener living environments. As more communities adopt similar measures, we can expect further innovation and refinement that will continue driving progress towards sustainable habitation across various housing types worldwide.

About Mixed-mode ventilation

Mixed-mode ventilation is a hybrid approach to space conditioning that uses a combination of natural ventilation from operable windows (either manually or automatically controlled), and mechanical systems that include air distribution equipment and refrigeration equipment for cooling. A well-designed mixed-mode building begins with intelligent facade design to minimize cooling loads. It then integrates the use of air conditioning when and where it is necessary, with the use of natural ventilation whenever it is feasible or desirable, to maximize comfort while avoiding the significant energy use and operating costs of year-round air conditioning.[¹][²]

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Heating, ventilation, and air conditioning

- Air changes per hour
- Bake-out
- Building envelope
- \circ Convection
- Dilution
- Domestic energy consumption
- Enthalpy
- Fluid dynamics
- $\circ\,$ Gas compressor
- Heat pump and refrigeration cycle
- Heat transfer
- Fundamental concepts
- Humidity
- Infiltration
- Latent heat
- Noise control
- Outgassing
- Particulates
- Psychrometrics
- Sensible heat
- Stack effect
- Thermal comfort
- Thermal destratification
- Thermal mass
- Thermodynamics
- Vapour pressure of water

- Absorption-compression heat pump
- Absorption refrigerator
- Air barrier
- Air conditioning
- Antifreeze
- Automobile air conditioning
- Autonomous building
- Building insulation materials
- Central heating
- Central solar heating
- Chilled beam
- Chilled water
- Constant air volume (CAV)
- Coolant
- Cross ventilation
- Dedicated outdoor air system (DOAS)
- Deep water source cooling
- Demand controlled ventilation (DCV)
- Displacement ventilation
- District cooling
- District heating
- Electric heating
- Energy recovery ventilation (ERV)
- Firestop
- Forced-air
- Forced-air gas
- Free cooling
- Heat recovery ventilation (HRV)
- Hybrid heatHydronics

Technology

- Ice storage air conditioning
- Kitchen ventilation
- Mixed-mode ventilation
- Microgeneration
- Passive cooling
- Passive daytime radiative cooling
- Passive house
- Passive ventilation
- Radiant heating and cooling
- Radiant cooling
- Radiant heating
- Radon mitigation
- Refrigeration
- Renewable heat
- Room air distribution
- Solar air heat
- Solar combisystem
- Solar cooling
- Solar heating

- Air conditioner inverter
- \circ Air door
- Air filter
- Air handler
- Air ionizer
- Air-mixing plenum
- Air purifier
- Air source heat pump
- Attic fan
- Automatic balancing valve
- Back boiler
- Barrier pipe
- Blast damper
- Boiler
- Centrifugal fan
- Ceramic heater
- \circ Chiller
- Condensate pump
- Condenser
- Condensing boiler
- Convection heater
- Compressor
- Cooling tower
- Damper
- Dehumidifier
- Duct
- Economizer
- Electrostatic precipitator
- Evaporative cooler
- Evaporator
- Exhaust hood
- Expansion tank
- \circ Fan
- Fan coil unit
- Fan filter unit
- Fan heater
- Fire damper
- Fireplace
- Fireplace insert
- Freeze stat
- Flue
- Freon
- Fume hood
- Furnace
- Gas compressor
- Gas heater
- Gasoline heater
- Grease duct

o Grille

Components

- Air flow meter
- Aquastat
- BACnet
- Blower door
- Building automation
- Carbon dioxide sensor
- Clean air delivery rate (CADR)
- Control valve
- Gas detector
- Home energy monitor
- Humidistat
- HVAC control system
- Infrared thermometer

Measurement and control

- Intelligent buildings
- LonWorks
- Minimum efficiency reporting value (MERV)
- $\circ\,$ Normal temperature and pressure (NTP)
- OpenTherm
- Programmable communicating thermostat
- Programmable thermostat
- Psychrometrics
- Room temperature
- Smart thermostat
- $\circ\,$ Standard temperature and pressure (STP)
- Thermographic camera
- Thermostat
- Thermostatic radiator valve
- Architectural acoustics
- Architectural engineering
- Architectural technologist
- Building services engineering
- Building information modeling (BIM)
- Deep energy retrofit
- Duct cleaning

Professions,

trades, and services

- Duct leakage testingEnvironmental engineering
- Hydronic balancing
- Kitchen exhaust cleaning
- Mechanical engineering
- $\circ\,$ Mechanical, electrical, and plumbing
- $\circ\,$ Mold growth, assessment, and remediation
- Refrigerant reclamation
- Testing, adjusting, balancing

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organizations	• CIDSE
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Health and safety	 Passive smoking
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	 Volatile organic compound (VOC)
	 ASHRAE Handbook
See also	 Building science
	 Fireproofing
	 Glossary of HVAC terms
	 Warm Spaces
	 World Refrigeration Day
	 Template:Home automation
	 Template:Solar energy

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About Durham Supply Inc

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Things To Do in Oklahoma County



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OKC Underground

4.1 (136)

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Sanctuary Asia

5 (1)

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Oklahoma National Guard Museum

4.9 (1279)

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National Cowboy & Western Heritage Museum
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Museum of Osteology
4.8 (2737)

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Reviews for Durham Supply Inc

Durham Supply Inc

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Noel Vandy

(5)

Thanks to the hard work of Randy our AC finally got the service it needed. These 100 degree days definitely feel long when your house isn't getting cool anymore. We were so glad when Randy came to work on the unit, he had all the tools and products he needed with him and it was all good and running well when he left. With a long drive to get here and only few opportunities to do so, we are glad he got it done in 1 visit. Now let us hope it will keep running well for a good while.

Durham Supply Inc

Image not found or type unknown Jennifer Williamson



First we would like to thank you for installing our air conditioning unit! I'd like to really brag about our technician, Mack, that came to our home to install our unit in our new home. Mack was here for most of the day and throughly explained everything we had a question about. By the late afternoon, we had cold air pumping through our vents and we couldn't have been more thankful. I can tell you, I would be very lucky to have a technician like Mack if this were my company. He was very very professional, kind, and courteous. Please give Mack a pat on the back and stay rest assured that Mack is doing a great job and upholding your company name! Mack, if you see this, great job!! Thanks for everything you did!! We now have a new HVAC company in the event we need one. We will also spread the word to others!!

Durham Supply Inc

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Salest

(5)

Had to make a quick run for 2 sets of ?? door locks for front and back door.. In/ out in a quick minute! They helped me right away. ?? Made sure the 2 sets had the same ? keys. The ? bathroom was clean and had everything I needed. ? ?. Made a quick inquiry about a random item... they quickly looked it up and gave me pricing. Great ? job ?

Durham Supply Inc

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K Moore

(1)

No service after the sale. I purchased a sliding patio door and was given the wrong size sliding screen door. After speaking with the salesman and manager several times the issue is still not resolved and, I was charged full price for an incomplete door. They blamed the supplier for all the issues...and have offered me nothing to resolve this.

Durham Supply Inc

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Crystal Dawn

(1)

I would give 0 stars. This isnTHE WORST company for heating and air. I purchased a home less than one year ago and my ac has gone out twice and these people refuse to repair it although I AM UNDER WARRANTY!!!! They say it's an environmental issue and they can't fix it or even try to or replace my warrantied air conditioning system.

Achieving Energy Savings with Variable Speed Motors in Mobile Homes View GBP

Frequently Asked Questions

What are variable speed motors, and how do they differ from traditional motors in mobile home HVAC systems?

Variable speed motors can adjust their operating speed to match the heating or cooling needs of the mobile home, unlike traditional motors that operate at a constant speed. This allows for more efficient energy use and better temperature control.

How do variable speed motors contribute to energy savings in mobile homes?

By adjusting their speed based on demand, variable speed motors reduce energy consumption by avoiding excessive power use during low-demand periods. This leads to lower electricity bills and less strain on the HVAC system.

Can installing a variable speed motor improve indoor comfort in a mobile home?

Yes, because they provide more consistent airflow and temperature regulation. This results in fewer hot or cold spots, improved humidity control, and quieter operation compared to single-speed motors.

Are there any particular considerations when upgrading to a variable speed motor in an existing mobile home HVAC system?

Its important to ensure compatibility with your current HVAC system. Consulting with an HVAC professional is recommended to assess any necessary upgrades or modifications required for optimal performance.

What potential cost savings can be expected from using a variable speed motor in a mobile homes HVAC system?

While specific savings vary based on usage patterns and local energy costs, homeowners can generally expect significant reductions in utility bills due to increased efficiency—often resulting in noticeable savings over time despite the initial investment cost.

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State : OK

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Google Business Profile

Company Website : https://royal-durhamsupply.com/locations/oklahoma-city-oklahoma/

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