

HVAC

Best Practices for Energy Efficiency

When choosing new rooftop equipment ensure that the unit is properly sized and that the unit has the highest SEER (Seasonal Energy Efficiency Rating) available for your needs.

Seasonal Energy Efficiency Ratio is the ratio of output cooling to input power for the overall system efficiency on a seasonal basis. The Energy Efficiency Ratio (EER) is the efficiency for the peak day operations. The federal government has set the minimum SEER rating to 13. Anything above 13 will consume less energy. However, any unit that was improperly installed or running inefficiently will not experience the full savings.

Properly sizing your unit can have greater impacts on your energy bill than a higher efficiency unit. Ask your HVAC specialist to conduct a “Load Calculation” on your building. This will account for all of the internal loads and the building envelope details including heat loss through the windows, walls, and doors. This will allow you to install the most accurate size of HVAC unit for your building. Do not let your HVAC specialist use a rule of thumb based on square footage to size your unit.

Who can accomplish this task?	Licensed HVAC service provider
Cost to implement:	Varied
Savings (\$ or %):	Varied

Additional benefit (business or environmental): Potentially have a lower upfront cost by getting a smaller unit, energy and money savings due to a minimal amount of wasted conditioned air.

