



# Maverick® II systems - now with inverter compressor technology



## Market-leading rooftop efficiency solutions

Daikin Applied continues to provide market-leading efficiency solutions by offering inverter compressors in rooftop systems that include Rebel™ (3-15 ton), RoofPak™ (16-75 ton), and now - Maverick II (26-50 ton). Inverter compressors modulate, delivering only the required energy to satisfy space conditions, providing for exceptional temperature/humidity control and lower operating costs.



### Operate quietly

Inverter compressors provide superior reduction in sound levels:

- Sound levels at part-load operation are very low
- Irritating on/off compressor cycling is eliminated

### Outperform digital scrolls

The energy efficiency of an inverter compressor is far superior to that of a digital scroll compressor. Digital scroll compressors have specific performance limitations that should not be overlooked when making compressor selections:

- Digital scroll compressors always operate at full speed and are less efficient at part-load applications
- To try to match building load, digital scrolls require more energy to load and unload the compressor in 5-20 second intervals
- As digital scrolls load and unload, audible noise levels fluctuate noticeably

### Lower operating costs

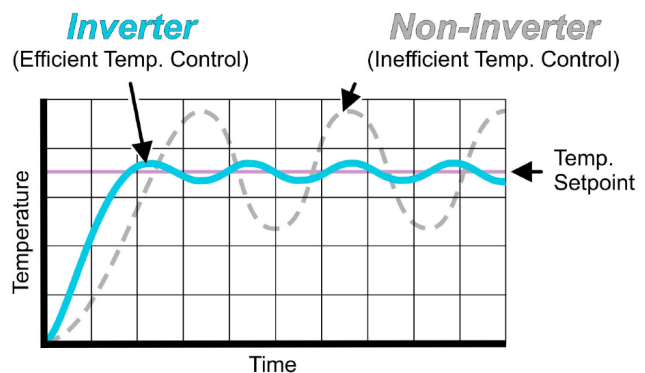
Inverter compressors will reduce your building's operation costs by saving energy:

- Use only the required energy to exactly match building load while minimizing over-cooling
- Low speed operation reduces energy consumption; soft start reduces energy needed for compressor in-rush power
- Minimal compressor cycling saves energy (also eliminates DX coil condensate re-evaporation)

### Improve operation and comfort control

The modulating capacity of an inverter compressor eliminates constant on-off cycling and continually maintains the desired leaving air temperature (LAT), resulting in:

- Better dehumidification and comfort control
- Extended compressor life via better expansion valve control and minimal cycling

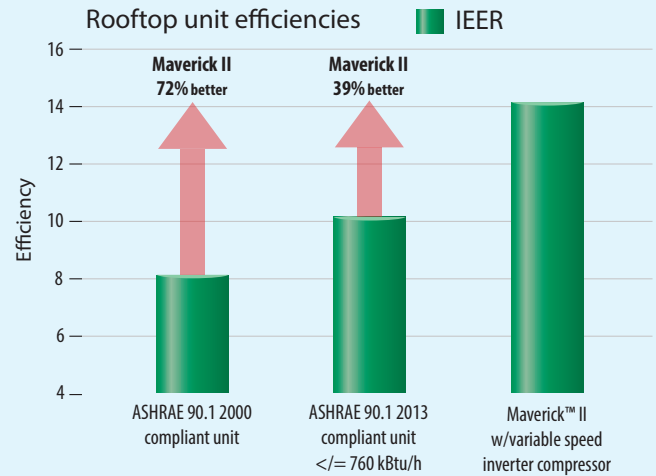


# The REAL measurement criteria for Rooftop efficiencies

Rooftop air conditioning efficiency is measured by two rating metrics – IEER (integrated energy efficiency ratio) for both full-load and part-load operation where equipment operates at 98% of the time, and EER (energy efficiency ratio) for full-load operation where equipment operates at 2% of the time. Since most operating hours are under part-load conditions, part-load efficiencies that occur during 98% of the equipment’s operating time are the best measure of efficiency.

Maverick II units with inverter compressors provide up to 39% better IEER than the current requirement of ASHRAE’s 90.1 (2013) standard, and 72% better than ASHRAE’s 90.1 (2000) standard.

Maverick II is an ideal rooftop solution for applications like schools, large office buildings, health care facilities, hotels, casinos, and data centers where energy efficiency, reliability, indoor air quality and acoustics are top priorities. Maverick II units are also configurable for 100% dedicated outdoor air systems with energy recovery, VAV, single-zone VAV, or CAV systems.



## Energy savings across the country

See how Daikin can save you money in your region each year with the below energy savings chart that compares a 50 ton Daikin Maverick II VAV unit with variable speed inverter compressor technology to a standard efficiency ASHRAE 90.1 (2013) compliant cooling only unit, and an older/vintage unit.

