

REPAIR OR REPLACE



COMMERCIAL ROOFTOP UNITS

WHAT TO CONSIDER WHEN EVALUATING ROOFTOP UNITS




DO YOU REPAIR, UPGRADE OR REPLACE?

If your system is less than 10 years old and is in good working condition...

REPAIR EXISTING SYSTEMS

KEEP YOUR SYSTEM RUNNING SMOOTHLY

- **Keep** track of your units' warranty information and understand the specifics 
- **Before** you need repairs, proactively select a qualified contractor 
- **During** your preventative maintenance check, consult with your contractor on potential repairs and estimated costs 
- **After** your preventative maintenance check, budget for future repairs 

If your system is sub optimized, could have improved efficiency and be saving you energy and money...

UPGRADE EXISTING SYSTEMS

ADD ADVANCED CONTROLS and TECHNOLOGY



- **Variable** or multi-speed fan control
- **Integrated** economizer control
- **Demand** controlled ventilation
- **Modulating** compressors (two-stage, multiples, variable speed)
- **Fault** detection and diagnostics
- **Remote** monitoring

Retrofitting existing systems with advanced controls and technologies

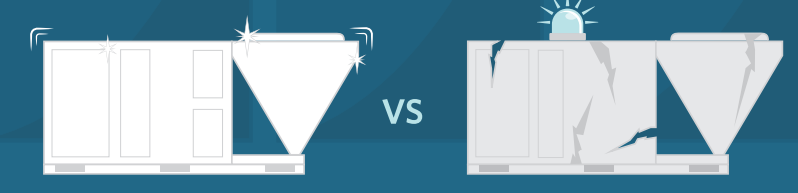
can save up to **40%** 

with paybacks as short as two years



If your system is in poor condition, not operating as intended and wasting energy...

REPLACE EXISTING SYSTEMS

PLAN FOR REPLACEMENT NOW - it's LESS EXPENSIVE than EMERGENCY REPLACEMENT

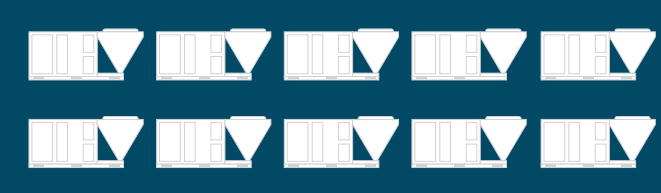



Benefits of proactively replacing older RTUs with high-efficiency RTUs


- **Incentives** from utilities, tax reductions and lower operating costs 
- **Reduced** labor costs by replacing multiple units at one time versus replacing each unit individually
- **Improved** humidity control and occupant comfort with more consistent conditioning throughout the space  Systems with a two-stage compressor, can improve humidity control by **53%**

GENERAL FACTS

Today, there are over **10 million** rooftop units (RTU) in the U.S. and many of those are **15+ years old**



By replacing or retrofitting, businesses can save **\$900 to \$3,700** in energy costs per unit, equating to **6.7 billion dollars** and **670 trillion BTUs** annually 

New high efficiency RTUs can be up to **50% more efficient** than existing units 

Average End of Useful Service Life (EUSL) of a RTU is

15-20 YEARS 

Data Source: Commercial Buildings Energy Consumption Survey (CBECS) and Advanced RTU Campaign

