



Benefits of The Rack Unit:

- High Energy Savings – Therm + kWh
 - Heating - \$.19/sqft savings
 - Heating + Cooling = \$.22/sqft savings
- Elimination of Stratification
- Reduces Amount of Cooling Tonnage required to Condition Space
- Allows for Multi-Tenant flexibility
- No Loss of Valuable Floor Space
- Low Maintenance
- Utilizes any Heat Source: NG, LP, Steam/Hot Water or Electric
- Fresh Air Intake Option
 - Roof Mounted Hoods
 - Wall Mounted Louvers

Operation of The Rack Unit:

- Heating: (Metro 6 Case Study)
 - System Controlled by Remote Control Panel incorporated with Night Setback Thermostat that cycles Unit Heaters between 2-Stages to meet specified temperature
 - Blower Fans run continuously distributing conditioned air throughout the facility to maintain even temperatures from Floor to Ceiling
 - Utilizes Building operating hours to eliminate the need for Outside Air during Unoccupied Hours

- **Cooling: (Stryker Case Study)**
 - RTU ducted into Back or Top of The Rack Unit
 - Mixes RTU Air with large volumes conditioned air from the Facility
 - Blower Fans with run continuously while the RTU will cycle on and off on demand
 - Reduces the amount of tonnage required to condition space
- **Ventilation: (Brooks Case Study)**
 - Racks incorporated with Intake Hoods or Louvers can take advantage of Cooler nighttime temperature to reduce facility temperatures
 - Reduces summer ventilation requirements from 2 Air Changes/Hour to $\frac{1}{2}$ Air Changes/Hour
 - Dampers open at night (10pm-6am) and bring in cool air that is distributed throughout the Facility
 - Dampers close when outside temperatures exceed inside air temperature
 - Blower Fans recirculate tempered air in the space
 - Temperature do not exceed 77° when set up properly