The Rack™

A Heating & Cooling Energy Rotation System

Heating

Heating & Cooling

The Energy Rotation System

Guarantees ENERGY SAVINGS while maintaining consistent BUILDING TEMPERATURE

Product features:

- High Energy Savings
- Consistent Building Temperature
- Low Installation Cost
- No Loss of Valuable Floor Space
- Quiet Operation
- Low Maintenance
- Fresh Air Intake Option

4790 West 73rd Street I Indianapolis, Indiana 46268
Phone: 317-290-8500 I Fax: 317-290-1900
www.aesrack.com

ER-142-400 (single unit)

ER-242-800 (double unit)

Pre-cast building

The Rack™

Heating Applications

THE RACK can meet your heating demands whether heating a 10,000 square foot steel building or a 600,000 sq ft multi-tenant structure. THE RACK utilizes the industry's most energy efficient heater and combines it with a ceiling hung air turn-over unit.

The Energy Rotation (ER) unit has two distinct functions. First, the unit-heater controlled by the thermostat, cycles on and off based on the temperature demands of the building. And secondly, the ER's rotation fan runs continuously distributing heated air evenly throughout the space.

Basic RACK models are available in four sizes:

- ER-130-200 : 9,000 cfm – 200,000 btu/hr
- ER-230-400 : 18,000 cfm – 400,000 btu/hr
- ER-142-400 : 16,500 cfm – 400,000 btu/hr
- ER-242-800 : 33,000 cfm – 800,000 btu/hr

Additional features of the RACK Heating Energy Rotation Unit include:

- 93% efficient…truly the first "GREEN HEATING SYSTEM"
- Offers ultimate flexibility for multi tenant buildings as square footage changes in size and usage
- Utility savings up to 40%...1 ER unit can replace multiple standard unit heaters – using the same flue vent piping… ideal for retro-fit projects
- De-stratifies heated ceiling air to floor level
- Utilizes any heat source: natural gas, steam or hot water or electric unit heaters
- Fresh outside air can be supplied through roof mounted intake hoods or side wall intake louvers or dampers

Steel building

Typical Ceiling Hung Installation

Fresh Air Intake Air Duct

ER-242 & ER-142 Rotation Units

Discharged duct to the ER-242

Heating & Cooling Applications

Pre-cast building

THE RACK, incorporated with conventional heating and cooling roof-top units, provides the most cost efficient method of maintaining temperatures in a facility.

Utilizing any manufacture's equipment, THE RACK mixes the unit's discharged air with large volumes of returned plant air. The ceiling hung installation design allows THE RACK to turn over and distribute air with minimal electrical consumption...while preserving your valuable floor space.

> **Example:** *25 ton roof top units have a discharge air flow of 10,000 cfm. By discharging the 10,000 cfm into the ER-242, air circulation increases to 33,000 cfm... resulting in even temperatures through the facility.*

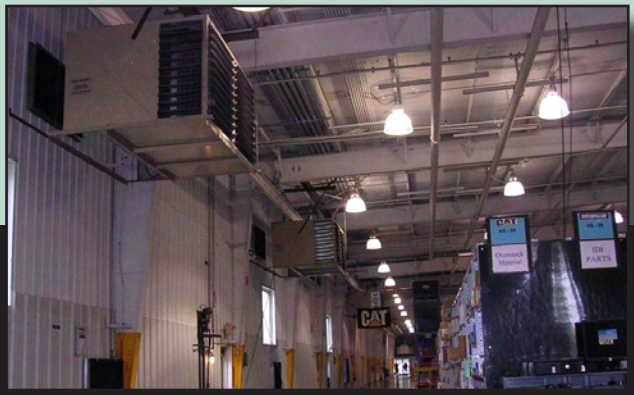
This process will eliminate hot and cold spots associated with standard heating or heating/cooling systems. The building maintains even temperatures and increases the comfort level for employees.

Steel building

Steel Building & Precast Facilities:

- Reduces the need for expensive roof structural steel (Steel Buildings)
- Eliminates roof penetration which causes roof leaks (Steel Buildings)
- Decreases the quantity of units needed to distribute the conditioned air evenly throughout the space
- Maintains consistent temperatures throughout the work environment eliminating the need for expensive discharge duct work
- Lowers installation costs with gas and electrical piping
- Saves utility expenses in both natural gas and electrical consumption

Steel Building



ER-242 Rotation Unit

About Us

Since 1986, Air Energy Systems, Inc. (AES) has provided contractors with ventilation equipment, air distribution products, radiant heaters, make-up air units and energy rotation units. **We are committed to providing every customer with the most energy efficient system at the most competitive price.**

AES realizes that heating and cooling are important factors in any industrial / warehouse building project. Therefore, we go above and beyond your expectations to customize equipment which will address your HVAC requirements. We provide you with a single source responsibility – from initial design and manufacturing to equipment lay-out and service.

In addition to THE RACK, AES manufactures roof curbs, welded equipment frames and small filter sections. We also represent the following companies and products:

- **Arrow United Industries:** louvers & dampers
- **Breidert Air Products:** full line of axial and centrifugal fans
- **Rupp:** direct fired make-up air units & direct fired 80/20 units
- **Solaronics:** vented & ceramic radiant heaters
- **Vent Products:** louvers & dampers
- **Weather Rite:** direct fired make-up air units & direct fired 80/20 units

Please contact Air Energy Systems, Inc. to learn more about our various products and services. We welcome the opportunity to partner with you on your next project.

AIR ENERGY SYSTEMS

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