



ENERGY RECOVERY TECHNOLOGIES

Indoor Air Quality (IAQ), it's essential for the health and well-being of building occupants. At Alliance Air Products, along with offering extended possibilities, quality and efficient custom AHUs, we can also provide reliable and efficient technology as Energy Recovery Units.

Energy recovery ventilation provides fresh air and improved climate control while saving energy by reducing the heating or cooling requirements. Plate and frame heat exchangers, energy recovery wheels and heat pipes are available for maximum energy efficiency in ventilation systems where outdoor make-up air is introduced and heated and cooled air is exhausted. Systems can be designed to transfer both sensible and latent energy. By including energy recovery, systems can be sized with a variety of cooling and heating options while providing year-round energy savings.

The Energy Recovery technology in our units offer performance that results in:

- » Electrical savings
- » Reduce energy cost
- » Extended HVAC unit lifetime
- » Improves indoor air quality
- » Reduce or maintain humidity control



Alliance Air Products can offer you different Heat Recovery Technologies according to your needs, here are some examples of our technologies:

HEAT WHEEL

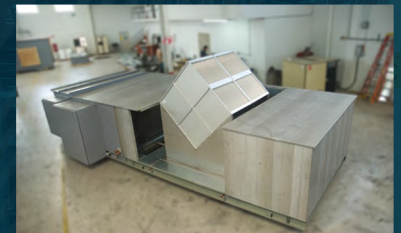
Generally used to reduce the energy consumed by air-conditioning equipment in locations with higher than normal outdoor ambient temperatures or humidity. It functions as a rotary heat exchanger, which means that it continually attempts to achieve thermal equilibrium.

AIR-TO-AIR HEAT EXCHANGER

Air-to-air heat exchangers are fixed-plate (non-rotating) heat exchangers. It can be used in two different applications: energy recovery and dehumidification.

HEAT PIPE

A heat pipe is a thermal transfer technology that utilizes no moving parts. It has two coils (pre-cool and re-heat) and uses a refrigerant that moves the heat from one coil to another through a phenomenon known as thermo-syphoning. This is the same principle that causes heated air to rise and cooled air to fall.



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