Numerous Control Options

Face and Bypass Controls

Titan Air's Energy Recovery Unit has a specific control system that prevents frost from plugging the energy recovery cell. A temperature sensor is located in the cold corner of the energy recovery cell that detects if the cell's cold corner is getting close to the freezing point. When this sensor is triggered, the face and bypass dampers modulate, allowing the exhaust air to warm the cell while outside air is bypassed around the cell.

Other control options for the unit are available along with linking controls to a building management system.

Pledge to Our Customers

Titan Air pledges to continue product improvements and offerings through the use of customer input and new technologies that become available. As a valued customer, Titan Air realizes that you have come to expect nothing less.

Contact Titan Air

For complete information on our products and services, please contact Titan Air at:

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www.titan-air.com

Titan Air will be the best, build the best, employ the best, and lead the rest.

SOLUTIONS FOR INDUSTRIAL AND COMMERCIAL HEATING, COOLING, AND VENTILATION

TITAN
AIR INCORPORATED

Energy Recovery

Saving Energy Dollars with Titan Air

Reducing the amount of Lost Energy

Titan Air's Energy Recovery Units are a cost effective way to recover energy while still supplying 100% outside air. The Energy Recovery Unit is a standard, ETL listed, air make-up unit, that utilizes a state of the art, plate type heat exchanger.

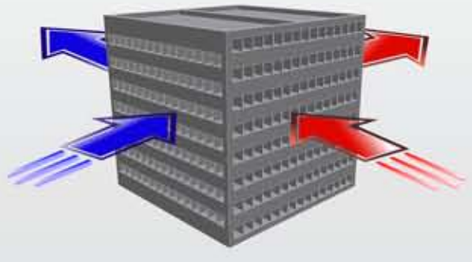
State of the Art Technology

Titan Air has taken the high thermal efficiency of direct fired equipment to the next level by incorporating an air to air energy exchanger to precondition air as it enters the unit. This easy to maintain energy recovery cell can be manufactured to fit individual space, temperature, and humidity control requirements and to do so within a narrow range.

The recovery cell can be used in a variety of applications to recover energy that is lost by other exhaust systems. The benefits of this technology can be realized in a variety of applications that utilize heat mediums such as indirect fired gas, electric, hot water or steam. An air handler can also benefit from an energy recovery cell by pre-conditioning the outside air solely with the exhausted air from the building.

Energy Recovery Cell

The energy recovery cell is constructed of layers of individual plates made of aluminum. Each non moving plate has a smooth surface for low air pressure drop across the recovery cell and ease of cleaning. The seams of the energy recovery cell are folded and sealed with epoxy to prevent cross contamination between the exhaust air stream and the fresh air stream. Energy recovery cells can be made from stainless steel, or various special coatings can be applied.

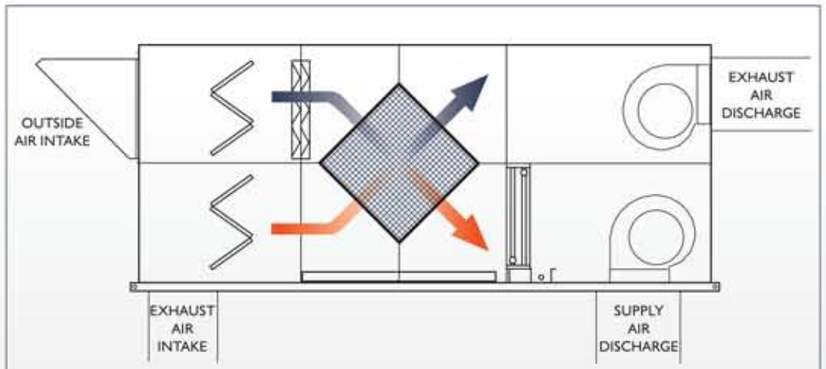


Titan Air's standard Direct Fired Energy Recovery Units range from 1,200 to 17,500 CFM. Larger units are also available.

If recovery of energy dollars spent is important to you, then the Titan Air Energy Recovery System can be your ideal solution.

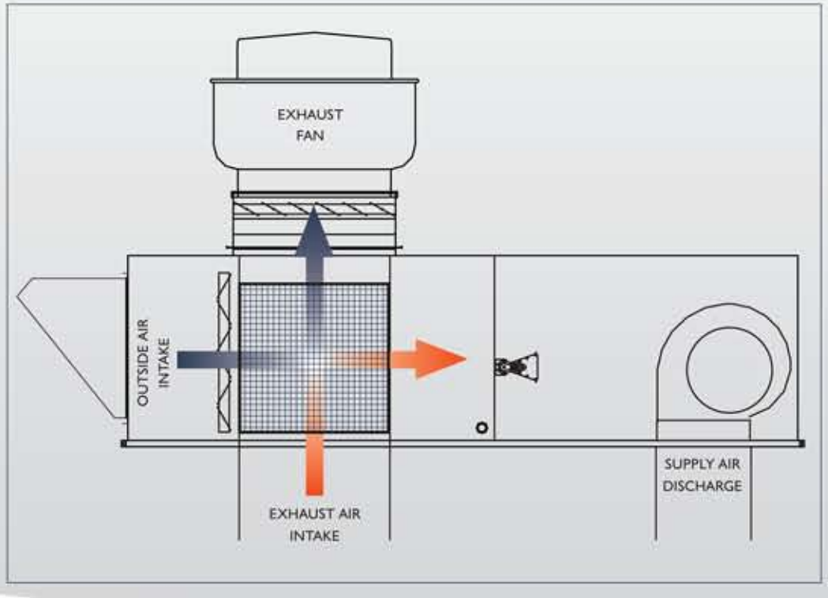
Basic Configurations for an Energy Recovery Cell

Titan Air's Energy Recovery Cell can be positioned either in a flat or diamond configuration depending on the specific application. Below are two examples of the configurations. (These configurations are not specific to heating or cooling applications.)



Cooling Application Example:

This unit is designed to take outside air and pre-cool the air through the energy recovery cell which is cooled from the air that is exhausted from the building. The energy recovery cell in the diamond position allows for a more complex design including internal filters and split cabinet.



Heating Application Example:

This unit is designed to take the outside air and pre-heat the air through the energy recovery cell which is heated from the exhausted air leaving the building. This is a basic design of a standard air make up unit with the energy recovery cell in the flat position.

Visit us online at www.titan-air.com

Call Titan Air at 715.597.2050