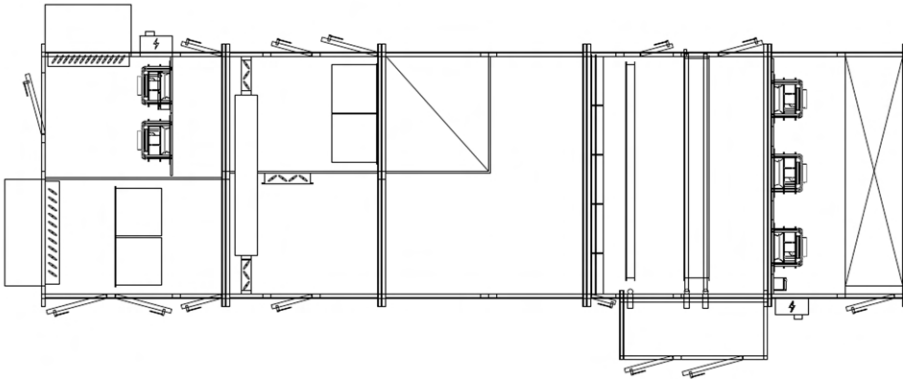


Energy recovery in your economizer section.

Perfect for **partial outside air** applications with **energy recovery**, the Reconomizer does not require a stacked nor a side-by-side arrangement. This saves cost and optimizes unit footprint!



Traditional Layout

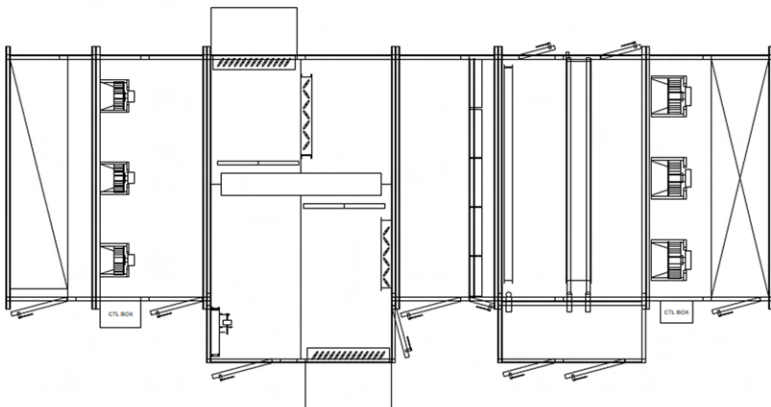


Plan view shown, unit dimensions: 120"W x 86"H x 422"L

A traditional stacked or side-by-side partial outside air energy recovery unit is split into two halves: one half being a high velocity dual tunnel portion, and the other half being an oversized supply tunnel.

The layout is heavily dependent on return opening location and fan type, affecting footprint.

Reconomizer Layout



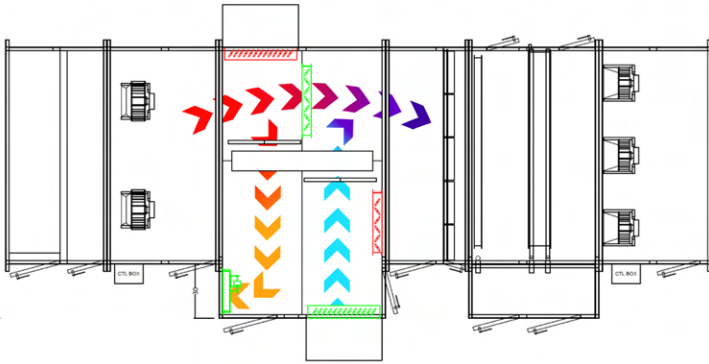
Plan view shown, unit dimensions: 120"W x 86"H x 374"L

The Reconomizer combines the economizer and energy recovery sections into one. Utilizing a series of dampers and front loading filters, this layout is **independent** of return air opening location and fan type.

How does the airflow work?

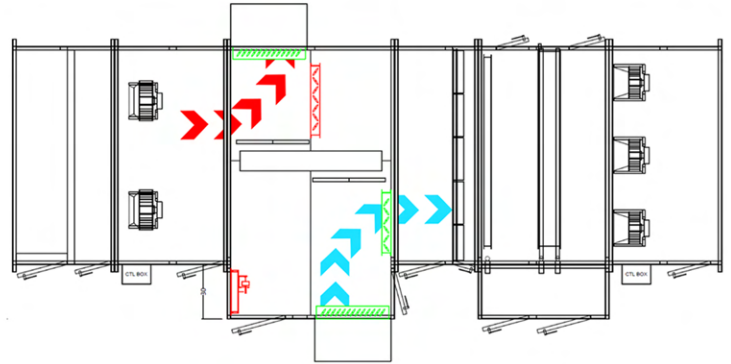
WHEEL OPTION

Normal operation



During normal operation, the return air passes through the recirculation damper and also exhausts through the energy recovery wheel. Outside air is drawn in through a hood, goes through the wheel, and mixes with the recirculation air.

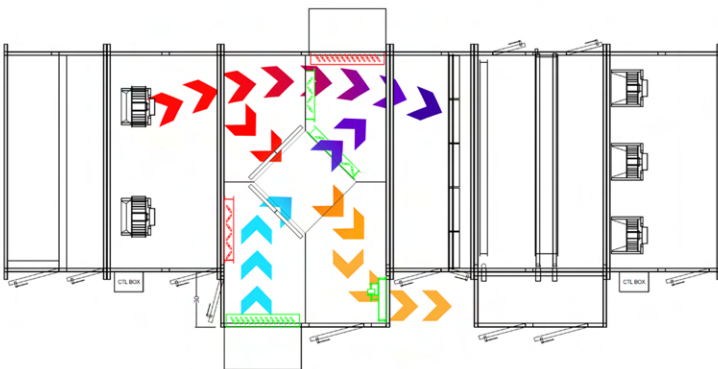
Economizer operation



During economizer operation, the recirculation damper and exhaust louvers **close**. The return air exhausts through a hood. The outside air is drawn in, bypasses the wheel, and enters the supply tunnel.

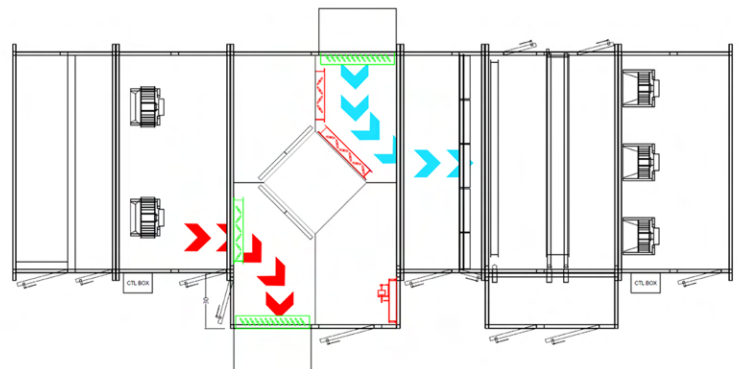
ENTHALPY PLATE OPTION

Normal operation



Nearly identical operation to the wheel option, the only difference being the airstreams cross each other through the enthalpy plate.

Economizer operation



Similar operation to the wheel option, the one difference is the hood that was used for outside air intake during normal operation is now used for exhaust air during economizer operation.