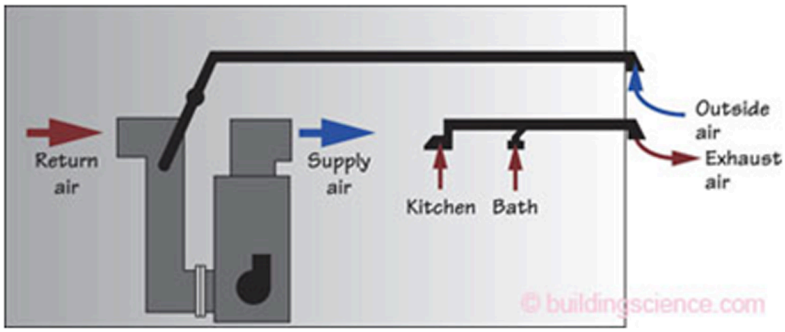
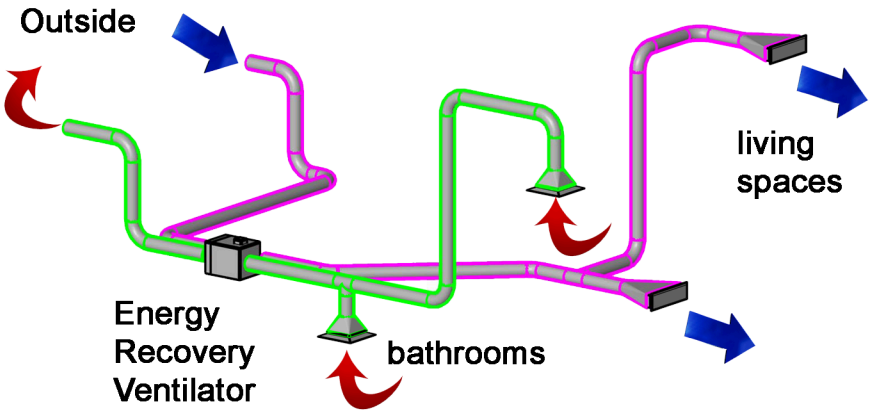
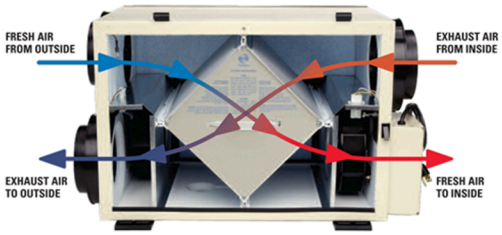
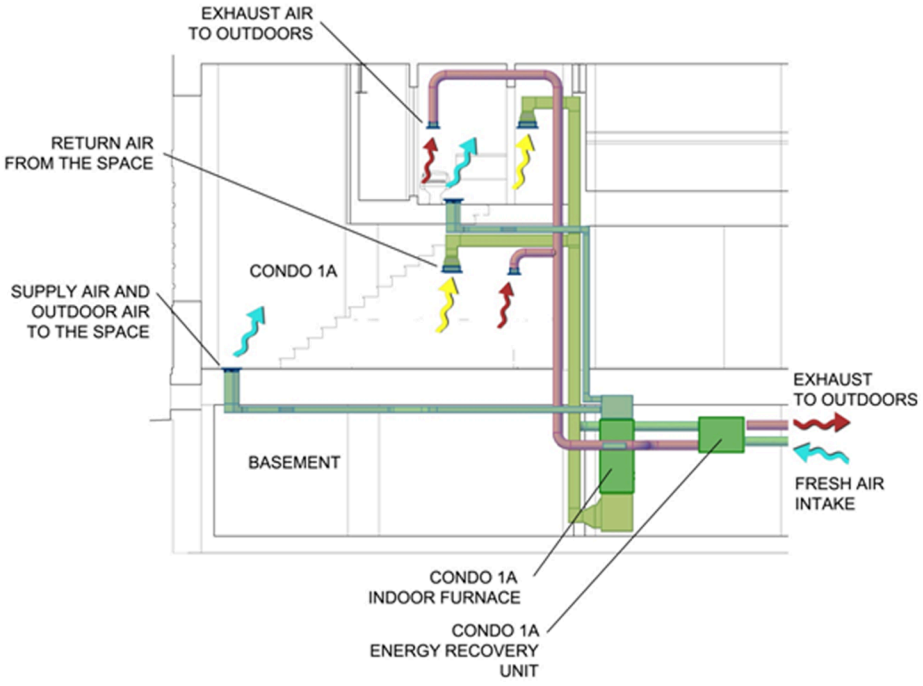


Basic ventilation strategy in which independent exhaust fans remove air from the bathrooms and kitchens when switched on, and outside air is drawn through the forced air system to make up the difference. When the forced air system is on, the cooling and heating method warms and cools the outside air as needed.





More modern homes are utilizing a continuous ventilation strategy where a dedicated energy recovery ventilator exhausts the bathrooms at all times, and a separate outside air fan provides the make-up air from outside into the home at all times. This leads to a more healthy environment inside the home, especially for the newer, tighter constructed homes. The energy recovery ventilator contains a plate and frame heat exchanger inside the unit, where the outside air is warmed or cooled, depending on the season, by the exhaust air prior to discharging it outside. It is free heating and cooling of the outside air.



A schematic diagram of an energy recovery ventilator tied into a forced air heating and cooling system, to provide fully conditioned outdoor air to the space at all times. The energy recovery ventilator operates continously, and the furnace unit cycles based on the thermostat settings.

J+M ENGINEERING
JANDMENGINEERS.COM

PHILADELPHIA
11 W. Thompson St., Phila., PA 19125
215.454.2662

WASHINGTON, DC
2804 31st St., Washington, DC 20020
202.320.9173