* 1. Reconomizer
     1. General specifications
        1. Furnish and install the enthalpy plate energy exchanger (Acceptable manufacturers include: Innergytech inc., CORE).
        2. Section to incorporate energy recovery device in economizer section for compact configuration.
        3. Section to function in two modes: NORMAL operation and ECONOMIZER operation.
           1. NORMAL operation allows for minimum outside air to be drawn in and through the heat exchanger, mixing with a portion of return air to be recirculated into the supply airstream. The remaining return air will be put through the heat exchanger and exhausted out of the unit.
           2. ECONOMIZER operation allows for the outside air to bypass the plate heat exchanger. No air will recirculate, and 100% outside air will be drawn in through the specific outside air economizer hood. All return air will go through an exhaust air economizer bypass damper and exit the unit through the hood which was used for minimum outside air during NORMAL operation.
  2. Enthalpy Plate Heat Exchanger
     1. General specifications
        1. The enthalpy plate energy exchanger shall transfer both sensible and latent energies between outgoing and incoming air streams in a crossflow arrangement.
        2. The enthalpy plate exchanger must be manufactured in North America.
        3. The enthalpy plate exchanger manufacturer must have at least ten (10) years of experience in the manufacturing of energy recovery components.
        4. The enthalpy plate exchanger shall bear the AHRI 1060 Certified Product Seal. Sensible, latent, and total effectiveness along with pressure drop, EATR and OACF rating shall be clearly documented with performance tests conducted in accordance with ASHRAE Standard 84-91 and per the official AHRI laboratory. Exchangers that do not bear the AHRI 1060 certified seal shall be unacceptable.
  3. Filters
     1. Furnish 2-inch MERV 8 filters on entering return air and entering outside air faces of plate heat exchanger.
     2. Filter media shall be UL 900 listed, Class I or Class II.
  4. Dampers
     1. The normal operation exhaust air damper shall be a combination louver/damper with drainable blade model.
        1. Greenheck EAC-401, or similar, to be acceptable.
     2. The outside air dampers, heat exchanger face damper, and recirculation air damper shall be controllable, low leakage dampers.
        1. Greenheck VCD series, Daikin Ultraseal Low Leak, Tamco 1500, or similar shall be acceptable.