

Heat Recovery Ventilator Application Note
APP- 011

THEORY

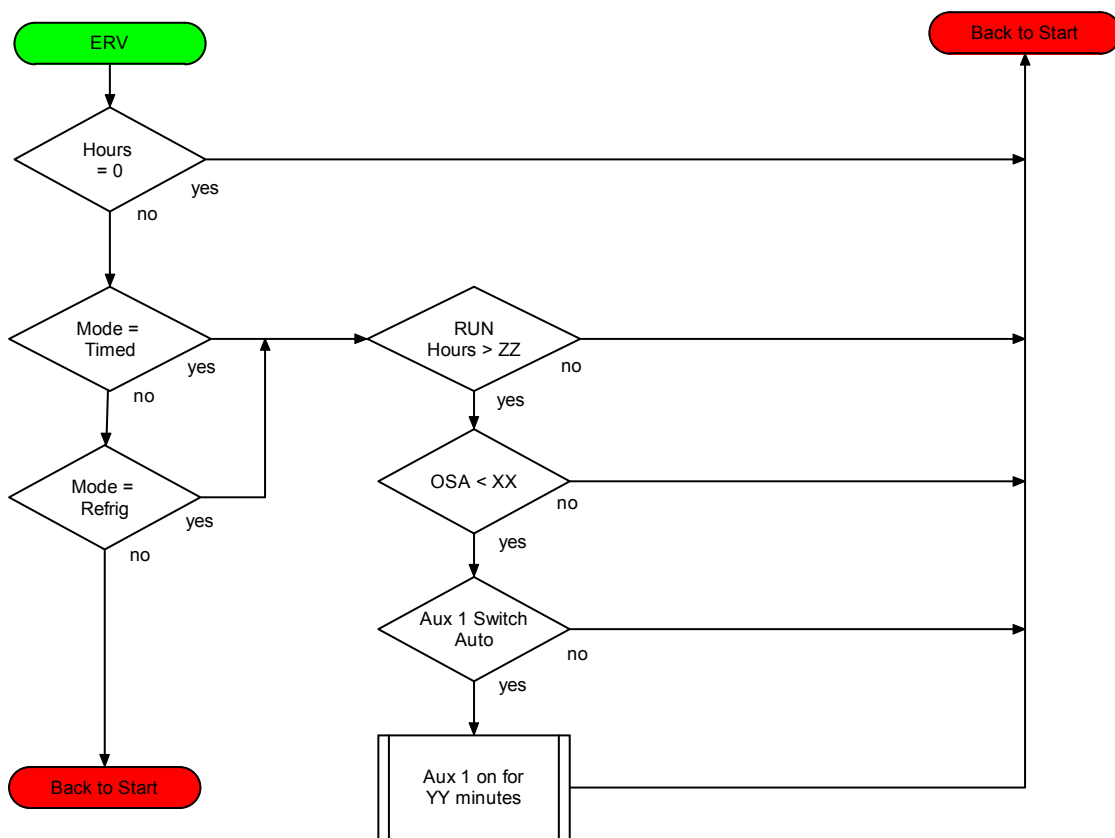
A heat recovery ventilator (HRV) can help make mechanical ventilation more cost effective by reclaiming energy from exhaust airflows. HRVs use heat exchangers to heat or cool incoming fresh air, recapturing 60 to 80 percent of the conditioned temperatures that would otherwise be lost. This application note will describe operation of a HRV in a refrigerated locker.

OPERATION

The HRV mode operates in two different configurations. If the Purge_CFG byte is set to 4, it will operate with out a CO2 sensor. Setting the Purge_CFG byte to 5, will set the logic to operate with a CO2 sensor. Aux 1 is the controlling output for the HRV.

The following flow chart is without a CO2 Sensor.

IF OSA < XX INITIATE PURGE CYCLE FOR YY MIN EVERY ZZ HOURS



OPERATION

Setting the Purge_CFG byte to 5, will set the logic to operate with a CO2 sensor. Aux 1 is the controlling output for the HRV.

The following flow chart is with a CO2 Sensor.

