



Building Performance Equipment, Inc.®

Sustainable, Reliable and Energy Efficient Ventilation Systems



Zero Energy Use - Earth Building Block Island, Rhode Island

CHALLENGE

A very tightly built earthen building, which is highly efficient (wall R-Value over 40), needed fresh air for improved breathing and comfort. The equipment had to be reliable and able to withstand extreme cold, constant salt air, and high humidity in all kinds of weather conditions.

SOLUTION

A BPE-XE-MIR 200 unit lifted the air with two highly efficient FR-100 fans, which use only 19 watts of power (Yes, both fans use less power than a 40 watt light bulb!). The unit came with a limited life time warranty against corrosion and turned out to be a very good choice for the ventilation challenges on the small island off the coast of Rhode Island.

The BPE unit operated with great efficiency, while outdoor air was brought in without the need for a separate unit for additional heating and cooling. This was one of the high performance energy recovery components needed to make a zero energy use building, even in a salty air marine environment.



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