

# **ERVMAX RETROFIT CASE STUDY**

## **Johnson Controls Macdill AirForce Base Tampa Fl.**

- Completed in October, 2005
- One 30-ton ERVMAX unit
- Capacity increase of 17%
- Efficiency increase of 26%



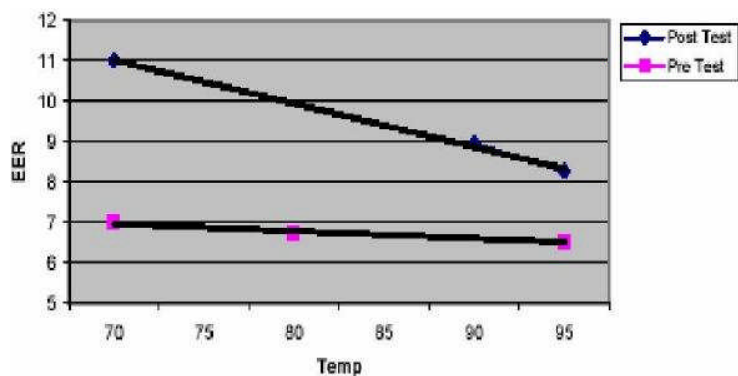
One 30-ton Trane, TWA series, split system was retrofitted with a 30-ton ERVMAX unit. This unit served warehouse space that is not occupied but must maintain a temp of 75°F at all times using 100% outdoor air for the return. Performance of the retrofitted system was compared to the operation of this unit without modifications. A capacity increase of 17% was realized using 100% indoor air. The system EER increased from 6.54 to 8.28 @ 95°F ambient.

Note: This evaporator coil is badly damage due to poor maintenance and the salty out door air and this condition limited the benefits provided by the EER+ technology. The increase In capacity should be over 25%greater than originally rated, if the condition of equipment were normal, and would be over 75% greater than is currently operating.

**ERVMAX Pat. Nos.: 6,070,423;  
6,857,285; & 7,150,160**

**Project Reference:**  
Thomas H. Hebert with PES  
See Below

**30 Ton Unit EER Comparison**



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