

# **ENERGY EFFICIENCY CASE STUDY SUMMARY:**

#### PROJECT BACKGROUND

CLIENT: Avionics Lake Forest, CA Unit Tested: WCD180E400AA

#### **APPLICATION & DATA COLLECTION PROCESS**

- Install KWH/Ambient Temp Data Loggers
- · Collect Pre-Coat Data
- Clean and coat condenser coils with OPTY-COIL COATING® CLEAR
- Clean and coat exterior cabinet with KWGuard ThemoCote ceramic coating
- Collect Post-Coat Data

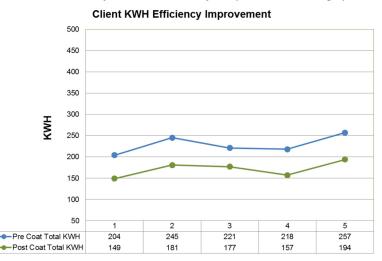
### **CUSTOMER BENEFITS**

- KWH reduction 15-20%. Immediate and dramatic reduction of HVAC energy costs
- Reduced run-time. Reduces maintenance costs and improves unit life
- Longer useful life. Significant Net Present Value (NPV) of deferred capital replacement dollars
- Reduced maintenance costs by 50% or better
- Reduced carbon footprint

#### **PANASONIC AVIONICS FINAL ANALYSIS PRE-COAT DATA POST-COAT DATA** KWH % REDUCTION AVERAGE KWH % REDUCTION Avg.Temp Weather Total KWH Avg.Temp Weather Total KWH Date Date 04/06 70.5 Sun 204 04/27 71.0 Sun 149 -29.96% 04/07 74.6 Sun 245 05/08 74.4 Sun 181 -26.12% -25.10% 04/11 69.1 Sun 221 05/20 65.8 Sun 177 -19.91% 04/14 69.6 218 -27.98% Sun 05/07 68.3 Sun 157 04/09 75.8 257 -24.51% Sun 05/19 73.2 Sun 194 **RETURN ON INVESTMENT (ROA): 4.3 MONTHS**

# **COMPARATIVE RESULTS**

This chart illustrates daily results for the 5-day comparative results in graph format.



# CONCLUSION

Utilizing our patent-pending **Dual Process** coating combination reduces energy costs and extends the useful life of the unit by several years.

In addition, we reduce run time, routine maintenance and carbon footprint.